Siri Prestasi Penerbitan Pertanian UPM
Vol.1

STATISTIK PRESTASI PENERBITAN PEGAWAI UPM BIDANG PERTANIAN 2009-2018

UPM OFFICERS PUBLICATION PERFORMANCE STATISTICS IN THE FIELD OF AGRICULTURE 2009-2018

Disediakan oleh / Prepared by:
Seksyen Perkhidmatan Penyelidikan
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Research Services Section
Research and Information Services Division

Perpustakaan Sultan Abdul Samad
Universiti Putra Malaysia

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Siri Prestasi Penerbitan Pertanian UPM; Vol. 1

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Perpustakaan Sultan Abdul Samad, UPM

Kata Pengantar

Statistik Penerbitan Pegawai UPM bidang pertanian ini ialah statistik kali pertama dihasilkan oleh Bahagian Perkhidmatan Penyelidikan dan Maklumat, Perpustakaan Sultan Abdul Samad, Universiti Putra Malaysia. Bidang pertanian ini dipilih adalah berdasarkan peranan UPM selaras dengan matlamat penubuhan universiti ini iaitu hampir lima dekad yang lalu telah banyak menyumbangkan jasa kepada bidang pertanian tempatan dan antarabangsa. Pengumpulan data untuk penerbitan statistik ini telah dijalankan pada 11 September 2019 dan 11 Oktober 2019. Sumber data yang digunakan ialah data daripada pangkalan data Scopus yang diterbitkan oleh Elsevier. Ia meliputi data penerbitan UPM yang diterbitkan bagi tahun 2009 hingga 2018. Kata kunci yang digunakan dalam carian ialah "Universiti Putra Malaysia" yang dihadkan kepada penerbitan tahun 2009-2018 sahaja. Bidang yang dipilih adalah berkaitan dengan bidang pertanian iaitu sains pertanian dan biologi, sains alam sekitar dan veterinar. Pencarian data mengikut satu-satu bidang yang ditentukan. Setelah itu, data disaring mengikut tahun. Ini adalah untuk mengelakkan pertindihan data semasa proses muat turun dilaksanakan. Data digambarkan dalam bentuk jadual dan rajah.

Statistik Penerbitan Pegawai UPM bidang pertanian vol.1 memaparkan maklumat terperinci berkaitan dua puluh petikan teratas bagi penerbitan UPM yang diterbitkan dalam tahun 2009-2018 mengikut bidang pertanian di dalam Scopus. Mudah-mudahan, statistik ini akan dapat membantu penyelidik mengetahui status prestasi penerbitan UPM dalam bidang berkaitan.

Salmah Abdullah
Ketua
Bahagian Perkhidmatan Penyelidikan dan Maklumat,
Perpustakaan Sultan Abdul Samad,
Universiti Putra Malaysia

November 2019

Foreword

Statistics of UPM Officers Publications in the field of Agriculture is the first to be published by the Research and Information Services Division, Perpustakaan Sultan Abdul Samad, Universiti Putra Malaysia. Agriculture field was selected based on the role of UPM in agriculture in line with the goal of its establishment for nearly five decades ago which has contributed greatly to local and international agriculture. Data collection for this study was conducted on 11th September and 11th October 2019. The data sources used was from Scopus database published by Elsevier that covers UPM publication data published in 2009 to 2018. The keyword used in the search was "Universiti Putra Malaysia" limiting to publications published in 2009-2018, in Fields related to agriculture i.e. agricultural and biological sciences, environmental sciences and veterinary. The data search was according to the specified field. Subsequently, the data was filtered by year. This is to prevent data overlapping during the downloading process. Data is depicted in tables and diagrams.

Statistics of UPM Officers Publications in the field of Agriculture vol. 1 displays detailed information related to the top twenty citations of UPM publications published in 2009-2018 by agricultural field. It is hoped, this statistical report will help researchers to understand the performance of UPM publications in the field of agriculture.

Salmah Abdullah
Head
Research and Information Services Division
Perpustakaan Sultan Abdul Samad
Universiti Putra Malaysia

November 2019

JADUAL-JADUAL DAN RAJAH-RAJAH BAGI PENERBITAN UPM TAHUN 2009-2018

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Perpustakaan Sultan Abdul Samad, UPM

Penerbitan pegawai UPM dalam bidang pertanian meliputi bidang Sains Pertanian dan Biologi, Sains Alam Sekitar dan Veterinar.

UPM officers publications in the field of Agriculture including Agricultural and Biological Sciences, Environmental Sciences and Veterinary.

Jadual 1. Penerbitan Pegawai UPM Bidang Pertanian 2009-2018
Table 1. UPM Officers Publications in the Field of Agriculture 2009-2018

Disiplin Perkara *Descipline*	Bilangan Rekod *Number of Records*
Sains Pertanian dan Biologi *Agricultural and Biological Sciences*	7,275
Sains Alam Sekitar *Environmental Sciences*	3,675
Veterinar *Veterinary*	565
Jumlah / Total	**11,515**

Jadual 2. Bilangan Rekod Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018
Table 2. Number of Records of UPM Officers Publications in the Field of Agriculture 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*
2018	1,315
2017	1,382
2016	1,193
2015	1,327
2014	1,317
2013	1,306
2012	1,066
2011	1,097
2010	810
2009	702
Jumlah / Total	11,515

Jadual 3. Bilangan Rekod Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Table 3. Number of Records of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*
2018	794
2017	832
2016	704
2015	799
2014	761
2013	829
2012	680
2011	811
2010	539
2009	526
Jumlah / Total	7,275

Jadual 4. Bilangan Rekod Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

Table 4. Number of Records of UPM Officers Publications in the Field of Environmental Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*
2018	456
2017	488
2016	438
2015	465
2014	512
2013	383
2012	320
2011	240
2010	216
2009	157
Jumlah / Total	3675

Jadual 5. Bilangan Rekod Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018
Table 5. Number of Records of UPM Officers Publications in the Field of Veterinary 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*
2018	65
2017	62
2016	51
2015	63
2014	44
2013	94
2012	66
2011	46
2010	55
2009	19
Jumlah / Total	565

Jadual 6. Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Table 6. Number of Citations of UPM Officers Publications in the Field of Agriculture 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Petikan *Number of Citations*
2018	2,202
2017	4,731
2016	7,677
2015	9,044
2014	13,487
2013	12,928
2012	14,184
2011	14,511
2010	11,698
2009	13,710
Jumlah / Total	**104,172**

Jadual 7. Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Table 7. Number of Citations of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Petikan *Number of Citations*
2018	1,241
2017	2,342
2016	3,965
2015	5,028
2014	6,671
2013	7,030
2012	8,080
2011	9,402
2010	7,911
2009	9,556
Jumlah / Total	**61,226**

Jadual 8. Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

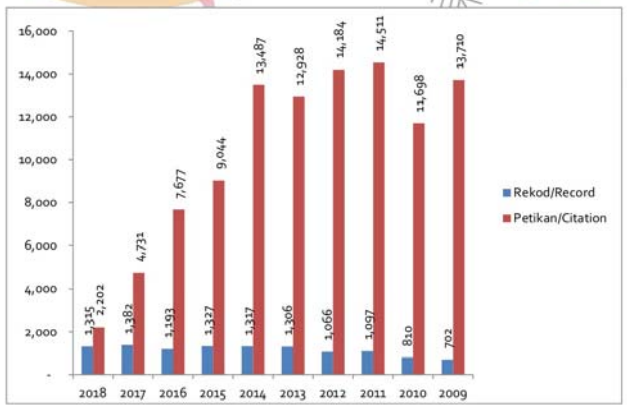
Table 8. Number of Citations of UPM Officers Publications in the Field of Environmental Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Petikan *Number of Citations*
2018	899
2017	2,221
2016	3,406
2015	3,652
2014	6,520
2013	5,389
2012	5,613
2011	4,699
2010	3,208
2009	4,006
Jumlah / Total	39,613

Jadual 9. Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018

Table 9. Number of Citations of UPM Officers Publications in the Field of Veterinary 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Petikan *Number of Citations*
2018	62
2017	168
2016	306
2015	364
2014	296
2013	509
2012	491
2011	410
2010	579
2009	148
Jumlah / Total	3,333



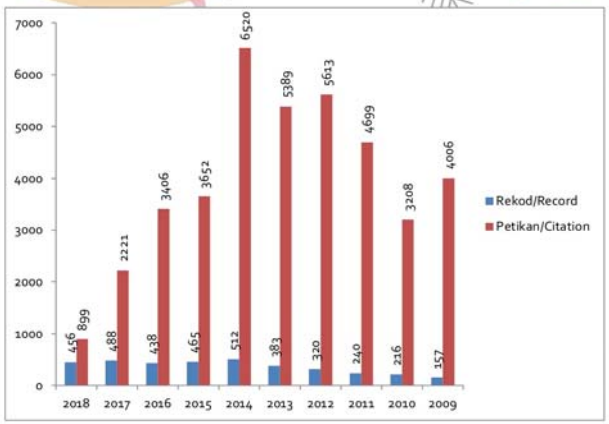
Rajah 1. Bilangan Rekod Berbanding Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Figure 1. Number of Records vs. Number of Citations of UPM Officers Publications in the Field of Agriculture 2009-2018

UPM Officers Publication Performance Statistics in the Field of Agriculture 2009-2018

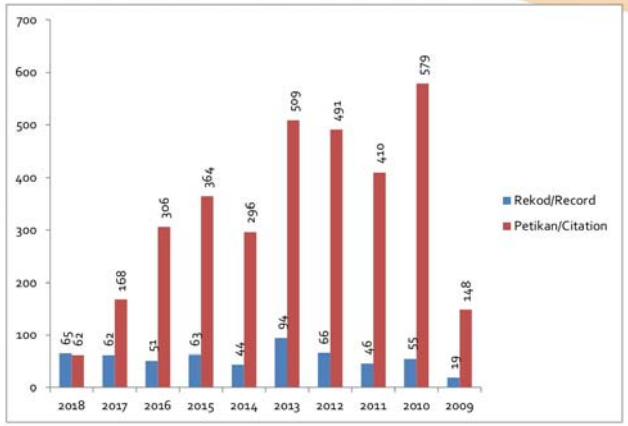
Rajah 2. Bilangan Rekod Berbanding Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Pertanian dan Sains Biologi 2009-2018

Figure 2. Number of Records vs. Number of Citations of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018



Rajah 3. Bilangan Rekod Berbanding Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

Figure 3. Number of Records vs. Number of Citations of UPM Officers Publications in the Field of Environmental Sciences 2009-2018



Rajah 4. Bilangan Rekod Berbanding Bilangan Petikan Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018

Figure 4. Number of Records vs. Number of Citations of UPM Officers Publications in the Field of Veterinary 2009-2018

Jadual 10. Petikan Per Rekod Dan Nilai h-indeks Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Table 10. Citation Per Record and h-index of UPM Officers Publications ~~Performance~~ in the Field of Agriculture 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*	Bilangan Petikan *Number of Citations*	Petikan/Rekod *Citations/Records*	H-indeks / H-index
2009 - 2018	11,515	104,172	9.04	97

h-indeks untuk tahun 2009-2018 = 97
(11,515 dokumen dipertimbangkan untuk h-indeks, 97 rekod telah dirujuk sekurang-kurangnya sebanyak 97 kali)

h-index for 2009-2018 = 97
(~~of the~~ 11,515 documents considered for the h-index, 97 records have been cited at least 97 times)

Jadual 11. Petikan Per Rekod Dan Nilai h-indeks Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Table 11. Citation Per Record and h-index of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*	Bilangan Petikan *Number of Citations*	Petikan/Rekod *Citations/Records*	H-indeks / H-index
2009 - 2018	7,275	61,226	8.41	75

h-indeks untuk tahun 2009-2018 = 75
(7,275 dokumen dipertimbangkan untuk h-indeks, 75 rekod telah dirujuk sekurang-kurangnya sebanyak 75 kali)

h-index for 2009-2018 = 75
(7,275 documents considered for the h-index, 75 records have been cited at least 75 times)

Jadual 12. Petikan Per Rekod Dan Nilai h-indeks Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

Table 12. Citation Per Record and h-index of UPM Officers Publications in the Field of Environmental Sciences 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*	Bilangan Petikan *Number of Citations*	Petikan/Rekod *Citations/Records*	H-indeks / H-index
2009 - 2018	3,675	39,613	10.7	78

h-indeks untuk tahun 2009-2018 = 78
(3,675 dokumen dipertimbangkan untuk h-indeks, 78 rekod telah dirujuk sekurang-kurangnya sebanyak 78 kali)

h-index for 2009-2018 = 78
(3,675 documents considered for the h-index, 78 records have been cited at least 78 times)

Jadual 13. Petikan Per Rekod Dan Nilai h-indeks Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018

Table 13. Citation Per Record and h-index of UPM Officers Publications in the Field of Veterinary 2009-2018

Tahun Penerbitan *Year of Publication*	Bilangan Rekod *Number of Records*	Bilangan Petikan *Number of Citations*	Petikan/Rekod *Citations/Records*	H-indeks / H-index
2009 - 2018	565	3,333	5.89	24

h-indeks untuk tahun 2009-2018 = 24
(565 dokumen dipertimbangkan untuk h-indeks, 24 rekod telah dirujuk sekurang-kurangnya sebanyak 24 kali)

h-index for 2009-2018 = 24
(565 documents considered for the h-index, 24 records have been cited at least 24 times)

Jadual 14. Jenis Dokumen Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Table 14. Document Types of UPM Officers Publications in the Field of Agriculture 2009-2018

Jenis Dokumen *Document Types*	Bilangan Rekod *Number of Records*
Artikel / *Article*	9,864
Kertas Persidangan / *Conference Paper*	710
Ulasan /*Review*	494
Bab Dalam Buku / *Book Chapter*	249
Editorial / *Editorial*	47
Buku / *Book*	58
Surat / *Letter*	6
Nota / *Note*	28
Ralat / *Erratum*	22
Kajian Pendek / *Short Survey*	18
Ditarik balik / *Retracted*	1
Tidak Jelas / *Undefined*	18
Jumlah / *Total*	**11,515**

Jadual 15. Jenis Dokumen Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Table 15. Document Types of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Jenis Dokumen *Document Types*	Bilangan Rekod *Number of Records*
Artikel / *Article*	6,333
Kertas Persidangan / *Conference Paper*	331
Ulasan /*Review*	293
Bab Dalam Buku / *Book Chapter*	183
Editorial / *Editorial*	30
Buku / *Book*	37
Surat / *Letter*	3
Nota / *Note*	24
Kesilapan / *Erratum*	13
Kajian Pendek / *Short Survey*	16
Ditarik balik / *Retracted*	1
Tidak Jelas / *Undefined*	11
Jumlah / *Total*	**7,275**

Jadual 16. Jenis Dokumen Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

Table 16. Document Types of UPM Officers Publications in the Field of Environmental Sciences 2009-2018

Jenis Dokumen *Document Types*	Bilangan Rekod *Number of Records*
Artikel / *Article*	2,998
Kertas Persidangan / *Conference Paper*	379
Ulasan /*Review*	174
Bab Dalam Buku / *Book Chapter*	66
Editorial / *Editorial*	17
Buku / *Book*	21
Surat / *Letter*	2
Nota / *Note*	3
Kesilapan / *Erratum*	8
Tidak Jelas / *Undefined*	7
Jumlah / *Total*	3,675

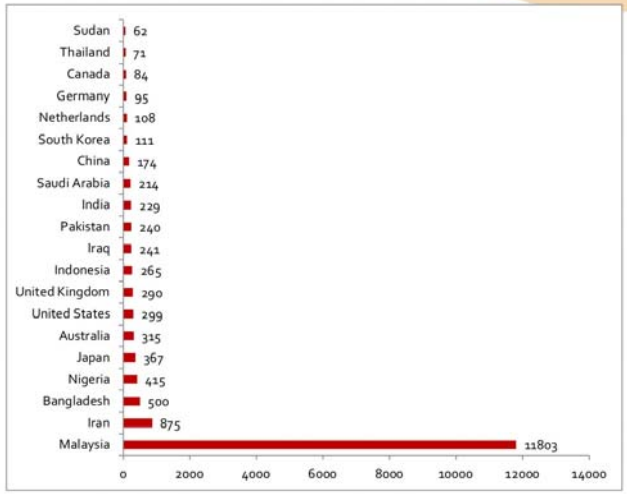
Jadual 17. Jenis Dokumen Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018
Table 17. Document Types of UPM Officers Publications in the Field of Veterinary 2009-2018

Jenis Dokumen *Document Types*	Bilangan Rekod *Number of Records*
Artikel / *Article*	533
Ulasan /*Review*	27
Surat / *Letter*	1
Nota / *Note*	1
Kesilapan / *Erratum*	1
Kajian Pendek / *Short Survey*	2
Jumlah / *Total*	565

Jadual 18. Bahasa Digunakan Dalam Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

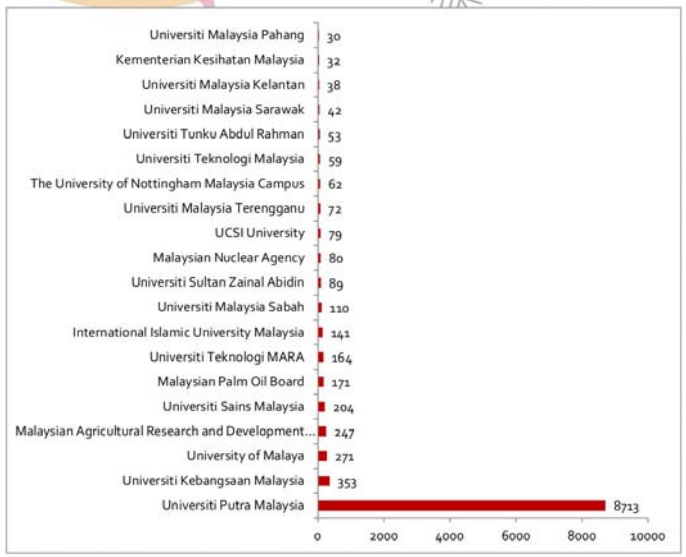
Table 18. Language Used for UPM Officers Publications in the Field of Agriculture 2009-2018

Bahasa *Language*	Bilangan Rekod *Number of Records*
Bahasa Inggeris / *English*	11,795
Bahasa Melayu / *Malay*	1
Bahasa Jerman / *German*	10
Bahasa Portugis / *Portuguese*	5
Bahasa Sepanyol / *Spanish*	14
Bahasa Perancis / *French*	3
Bahasa / *Czech*	1
Bahasa / *Slovak*	1
Bahasa Jepun/ *Japanese*	1
Bahasa / *Polish*	1



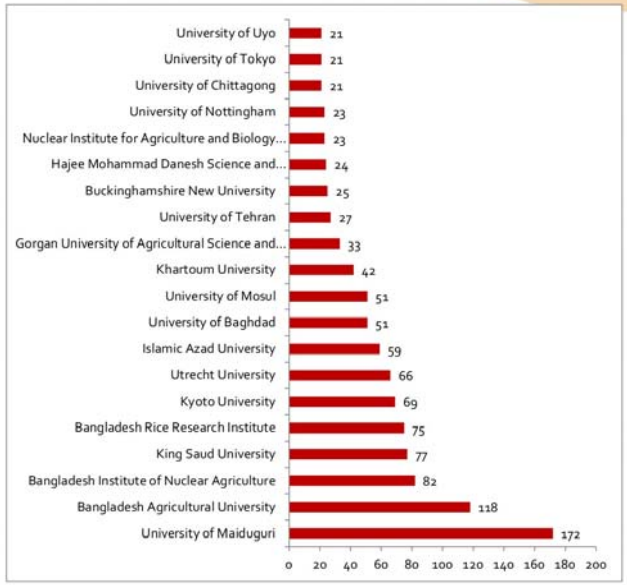
Rajah 5. Kerjasama Penyelidik UPM dengan Dua Puluh Negara Teratas Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Figure 5. UPM Collaboration with Researchers from Top Twenty Countries for UPM Officers Publications in the Field of Agriculture 2009-2018



Rajah 6. Kerjasama UPM dengan Dua Puluh Institusi Tempatan Teratas Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Figure 6. UPM Collaboration with Top Twenty Local Institutions for UPM Officers Publications in the Field of Agriculture 2009-2018



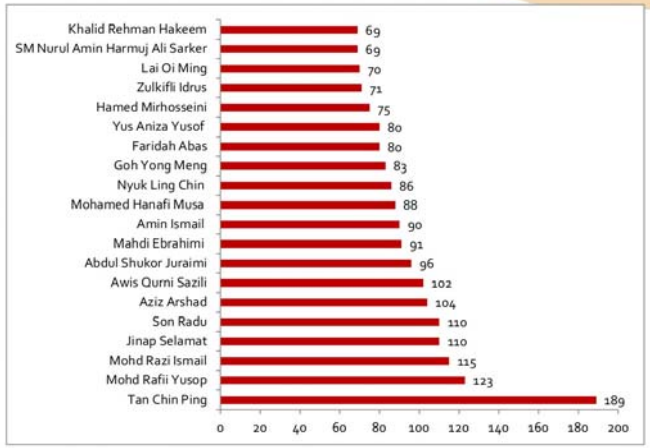
Rajah 7. Kerjasama UPM dengan Dua Puluh Institusi Luar Negara Teratas Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

Figure 7. UPM Collaboration with Top Twenty International Institutions for UPM Officers Publications in the Field of Agriculture 2009-2018

Berdasarkan data pada 11 Oktober 2019 / Based on data on 11 October 2019

Rajah 8. Dua Puluh Pengarang UPM Dengan Bilangan Penerbitan Tertinggi Bagi Bidang Pertanian 2009-2018

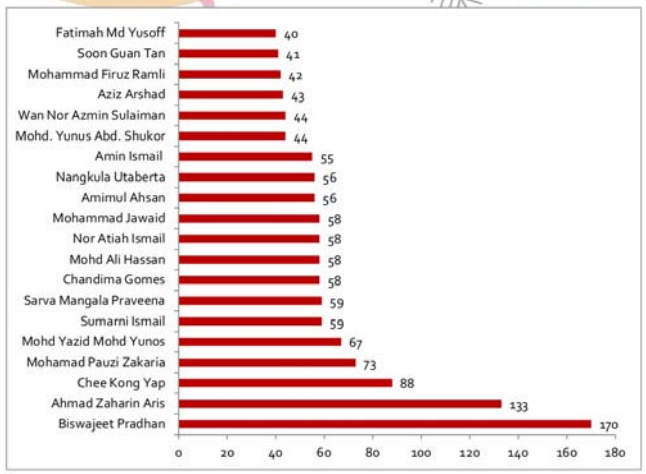
Figure 8. Top Twenty UPM Authors with Highest Numbers of Publications in the Field of Agriculture 2009-2018



** Berdasarkan data pada 11 Oktober 2019 / Based on data on 11 October 2019*

Rajah 9. Dua Puluh Pengarang UPM Dengan Bilangan Penerbitan Tertinggi Bagi Bidang Sains Pertanian dan Biologi 2009-2018

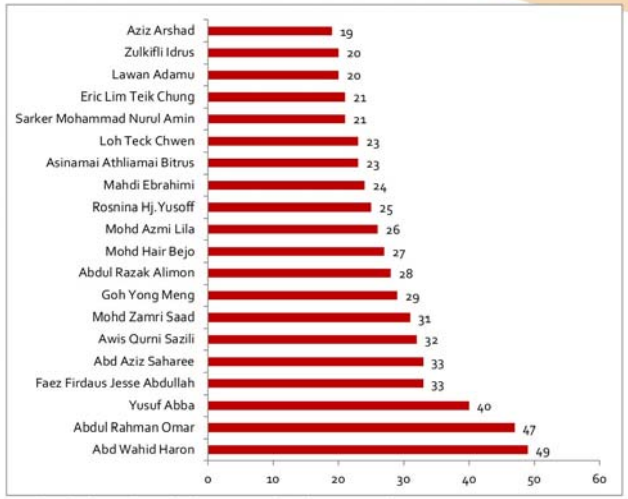
Figure 9. Top Twenty UPM Authors with Highest Numbers of Publications in the Field of Agricultural and Biological Sciences 2009-2018



Berdasarkan data pada 11 Oktober 2019 / Based on data on 11 October 2019

Rajah 10. Dua Puluh Pengarang UPM Dengan Bilangan Penerbitan Tertinggi Bagi Bidang Sains Alam Sekitar 2009-2018

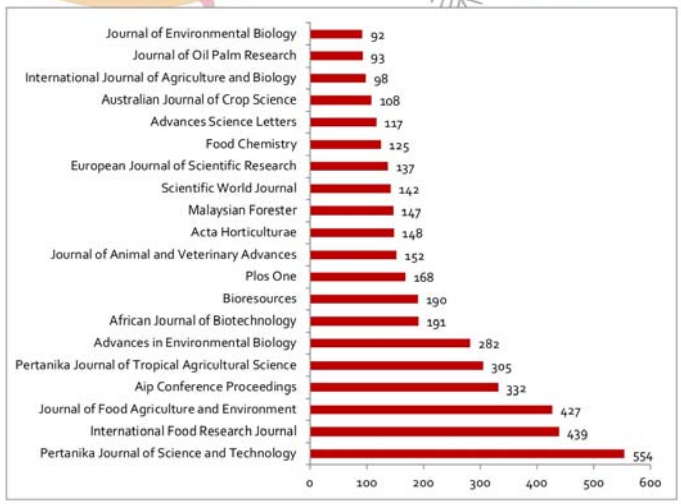
Figure 10. Top Twenty UPM Authors with Highest Numbers of Publications in the Field of Environmental Sciences 2009-2018



*Berdasarkan data pada 11 Oktober 2019 / Based on data on 11 October 2019

Rajah 11. Dua Puluh Pengarang UPM Dengan Bilangan Penerbitan Tertinggi Bagi Bidang Veterinar 2009-2018

Figure 11. Top Twenty UPM Authors with Highest Numbers of Publications in the Field of Veterinary 2009-2018



Rajah 12. Penerbitan UPM dalam Dua Puluh Jurnal Teratas Bagi Penerbitan Pegawai UPM Bidang Pertanian 2009-2018

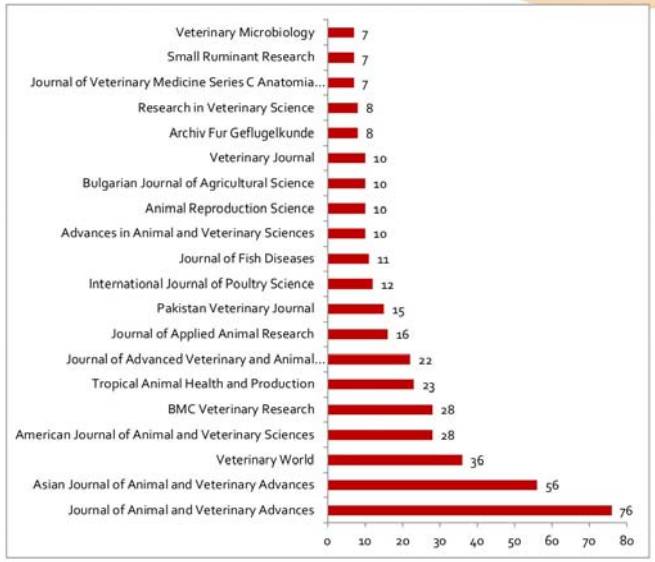
Figure 12. UPM Publications in Top Twenty Journals for UPM Officers Publications in the Field of Agriculture 2009-2018

Rajah 13. Penerbitan UPM dalam Dua Puluh Jurnal Teratas Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Figure 13. UPM Publications in Top Twenty Journals for UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Rajah 14. Penerbitan UPM dalam Dua Puluh Jurnal Teratas Bagi Penerbitan Pegawai UPM Bidang Sains Alam Sekitar 2009-2018

Figure 14. UPM Publications in Top Twenty Journals for UPM Officers Publications in the Field of Environmental Sciences 2009-2018



Rajah 15. Penerbitan UPM dalam Dua Puluh Jurnal Teratas Bagi Penerbitan Pegawai UPM Bidang Veterinar 2009-2018

Figure 15. UPM Publications in Top Twenty Journals for UPM Officers Publications in the Field of Veterinary 2009-2018

SENARAI DUA PULUH PETIKAN TERATAS BAGI PENERBITAN PEGAWAI UPM BIDANG PERTANIAN 2009-2018

LIST OF TOP TWENTY CITATIONS OF UPM OFFICERS PUBLICATIONS IN THE FIELD OF AGRICULTURE 2009-2018

SAINS PERTANIAN DAN BIOLOGI

AGRICULTURAL AND BIOLOGICAL SCIENCES

Perpustakaan Sultan Abdul Samad, UPM

Jadual 19. Dua Puluh Petikan Teratas Bagi Penerbitan Pegawai UPM Bidang Sains Pertanian dan Biologi 2009-2018

Table 19. Top Twenty Citations of UPM Officers Publications in the Field of Agricultural and Biological Sciences 2009-2018

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Teuten, E.L., Saquing, J.M., Knappe, D.R.U., Barlaz, M.A., Jonsson, S., Björn, A., Rowland, S.J., Thompson, R.C., Galloway, T.S., Yamashita, R., Ochi, D., Watanuki, Y., Moore, C., Viet, P.H., Tana, T.S., Prudente, M., Boonyatumanond, R., Zakaria, M.P., Akkhavong, K., Ogata, Y., Hirai, H., Iwasa, S., Mizukawa, K., Hagino, Y., Imamura, A., Saha, M., Takada, H. (2009). Transport and release of chemicals from plastics to the environment and to wildlife. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 364(1526): 2027-2045.	776
2	Short, F.T., Polidoro, B., Livingstone, S.R., Carpenter, K.E., Bandeira, S., Bujang, J.S., Calumpong, H.P., Carruthers, T.J.B., Coles, R.G., Dennison, W.C., Erftemeijer, P.L.A., Fortes, M.D., Freeman, A.S., Jagtap, T.G., Kamal, A.H.M., Kendrick, G.A., Judson Kenworthy, W., La Nafie, Y.A., Nasution, I.M., Orth, R.J., Prathep, A., Sanciangco, J.C., Tussenbroek, B.V., Vergara, S.G., Waycott, M., Zieman, J.C. (2011). Extinction risk assessment of the world's seagrass species. *Biological Conservation*. 144(7): 1961-1971.	311
3	Sahena, F., Zaidul, I.S.M., Jinap, S., Karim, A.A., Abbas, K.A., Norulaini, N.A.N., Omar, A.K.M. (2009). Application of supercritical CO<inf>2</inf> in lipid extraction - A review. *Journal of Food Engineering*. 95(2): 240-253.	306
4	Ogata, Y., Takada, H., Mizukawa, K., Hirai, H., Iwasa, S., Endo, S., Mato, Y., Saha, M., Okuda, K., Nakashima, A., Murakami, M., Zurcher, N., Booyatumanondo, R., Zakaria, M.P., Dung, L.Q., Gordon, M., Miguez, C., Suzuki, S., Moore, C., Karapanagioti, H.K., Weerts, S., McClurg, T., Burres, E., Smith, W., Velkenburg, M.V., Lang, J.S., Lang, R.C., Laursen, D., Danner, B., Stewardson, N., Thompson, R.C. (2009). International Pellet Watch: Global monitoring of persistent organic pollutants (POPs) in coastal waters. 1. Initial phase data on PCBs, DDTs, and HCHs. *Marine Pollution Bulletin*. 58(10): 1437-1446.	230
5	Abu Bakar, M.F., Mohamed, M., Rahmat, A., Fry, J. (2009). Phytochemicals and antioxidant activity of different parts of bambangan (Mangifera pajang) and tarap (Artocarpus odoratissimus). *Food Chemistry*. 113(2): 479-483.	221

6	Mohamed, S., Hashim, S.N., Rahman, H.A. (2012). Seaweeds: A sustainable functional food for complementary and alternative therapy. *Trends in Food Science and Technology*. 23(2): 83-96.	213
7	Rohman, A., Man, Y.B.C. (2010). Fourier transform infrared (FTIR) spectroscopy for analysis of extra virgin olive oil adulterated with palm oil. *Food Research International*. 43(3): 886-892.	199
8	Al-Sheraji, S.H., Ismail, A., Manap, M.Y., Mustafa, S., Yusof, R.M., Hassan, F.A. (2013). Prebiotics as functional foods: A review. *Journal of Functional Foods*. 5(4): 1542-1553.	193
9	Matanjun, P., Mohamed, S., Mustapha, N.M., Muhammad, K. (2009). Nutrient content of tropical edible seaweeds, Eucheuma cottonii, Caulerpa lentillifera and Sargassum polycystum. *Journal of Applied Phycology*. 21(1): 75-80.	188
10	Nyam, K.L., Tan, C.P., Lai, O.M., Long, K., Che Man, Y.B. (2009). Physicochemical properties and bioactive compounds of selected seed oils. *LWT - Food Science and Technology*. 42(8): 1396-1403.	165
11	Taufiq-Yap, Y.H., Lee, H.V., Hussein, M.Z., Yunus, R. (2011). Calcium-based mixed oxide catalysts for methanolysis of Jatropha curcas oil to biodiesel. *Biomass and Bioenergy*. 35(2): 827-834.	161
11	Ali, A., Muhammad, M.T.M., Sijam, K., Siddiqui, Y. (2011). Effect of chitosan coatings on the physicochemical characteristics of Eksotika II papaya (Carica papaya L.) fruit during cold storage. *Food Chemistry*. 124(2): 620-626.	161
12	Hyde, K.D., Nilsson, R.H., Alias, S.A., Ariyawansa, H.A., Blair, J.E., Cai, L., de Cock, A.W.A.M., Dissanayake, A.J., Glockling, S.L., Goonasekara, I.D., Gorczak, M., Hahn, M., Jayawardena, R.S., van Kan, J.A.L., Laurence, M.H., Lévesque, C.A., Li, X., Liu, J.-K., Maharachchikumbura, S.S.N., Manamgoda, D.S., Martin, F.N., McKenzie, E.H.C., McTaggart, A.R., Mortimer, P.E., Nair, P.V.R., Pawłowska, J., Rintoul, T.L., Shivas, R.G., Spies, C.F.J., Summerell, B.A., Taylor, P.W.J., Terhem, R.B., Udayanga, D., Vaghefi, N., Walther, G., Wilk, M., Wrzosek, M., Xu, J.-C., Yan, J.Y., Zhou, N. (2014). One stop shop: backbones trees for important phytopathogenic genera: I (2014). *Fungal Diversity*. 67(1): 21-125.	160
13	Kia, M.B., Pirasteh, S., Pradhan, B., Mahmud, A.R., Sulaiman, W.N.A., Moradi, A. (2012). An artificial neural network model for flood simulation using GIS: Johor River Basin, Malaysia. *Environmental Earth Sciences*. 67(1): 251-264.	155
14	Ikram, E.H.K., Eng, K.H., Jalil, A.M.M., Ismail, A., Idris, S., Azlan, A., Nazri, H.S.M., Diton, N.A.M., Mokhtar, R.A.M. (2009). Antioxidant capacity and total phenolic content of Malaysian underutilized fruits. *Journal of Food Composition and Analysis*. 22(5): 388-393.	142
15	Rohman, A., Sismindari, Erwanto, Y., Che Man, Y.B. (2011). Analysis of pork adulteration in beef meatball using Fourier transform infrared (FTIR) spectroscopy. *Meat Science*. 88(1): 91-95.	140

15	Mustafa, R.A., Hamid, A.A., Mohamed, S., Bakar, F.A. (2010). Total phenolic compounds, flavonoids, and radical scavenging activity of 21 selected tropical plants. *Journal of Food Science*. 75(1): 0-0.	140
16	Bimakr, M., Rahman, R.A., Taip, F.S., Ganjloo, A., Salleh, L.M., Selamat, J., Hamid, A., Zaidul, I.S.M. (2011). Comparison of different extraction methods for the extraction of major bioactive flavonoid compounds from spearmint (Mentha spicata L.) leaves. *Food and Bioproducts Processing*. 89(1): 67-72.	131
16	Aida, F.M.N.A., Shuhaimi, M., Yazid, M., Maaruf, A.G. (2009). Mushroom as a potential source of prebiotics: a review. *Trends in Food Science and Technology*. 20(43810): 567-575.	131
17	Zokaeifar, H., Balcázar, J.L., Saad, C.R., Kamarudin, M.S., Sijam, K., Arshad, A., Nejat, N. (2012). Effects of Bacillus subtilis on the growth performance, digestive enzymes, immune gene expression and disease resistance of white shrimp, Litopenaeus vannamei. *Fish and Shellfish Immunology*. 33(4): 683-689.	125
17	Ismail, H.I., Chan, K.W., Mariod, A.A., Ismail, M. (2010). Phenolic content and antioxidant activity of cantaloupe (cucumis melo) methanolic extracts. *Food Chemistry*. 119(2): 643-647.	125
18	Mohamed, R., Wang, C.-T., Ma, C., Shevchenko, O., Dye, S.J., Puzey, J.R., Etherington, E., Sheng, X., Meilan, R., Strauss, S.H., Brunner, A.M. (2010). Populus CEN/TFL1 regulates first onset of flowering, axillary meristem identity and dormancy release in Populus. *Plant Journal*. 62(4): 674-688.	123
19	Ashrafuzzaman, M., Hossen, F.A., M. Razi Ismail, Hoque, M.A., Islam, M.Z., Shahidullah, S.M., Meon, S. (2009). Efficiency of plant growth-promoting rhizobacteria (PGPR) for the enhancement of rice growth. *African Journal of Biotechnology*. 8(7): 1247-1252.	121
20	Hashim, D.M., Man, Y.B.C., Norakasha, R., Shuhaimi, M., Salmah, Y., Syahariza, Z.A. (2010). Potential use of Fourier transform infrared spectroscopy for differentiation of bovine and porcine gelatins. *Food Chemistry*. 118(3): 856-860.	120

Penerbitan Pegawai UPM tahun 2009 - 2018 dalam bidang Sains Pertanian dan Biologi - 7,275 penerbitan

UPM Officers publications in 2009 - 2018 in the field of Agricultural and Biological Sciences - 7,275 publications

Jadual 20. Dua Puluh Petikan Teratas Bagi Penerbitan Pegawai UPM Tahun 2009
Bidang Sains Pertanian dan Biologi

Table 20. Top Twenty Citations of UPM Officers Publications Published in 2009 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Teuten, E.L., Saquing, J.M., Knappe, D.R.U., Barlaz, M.A., Jonsson, S., Björn, A., Rowland, S.J., Thompson, R.C., Galloway, T.S., Yamashita, R., Ochi, D., Watanuki, Y., Moore, C., Viet, P.H., Tana, T.S., Prudente, M., Boonyatumanond, R., Zakaria, M.P., Akkhavong, K., Ogata, Y., Hirai, H., Iwasa, S., Mizukawa, K., Hagino, Y., Imamura, A., Saha, M., Takada, H. (2009). Transport and release of chemicals from plastics to the environment and to wildlife. *Philosophical Transactions of the Royal Society B: Biological Sciences*. 364(1526): 2027-2045.	776
2	Sahena, F., Zaidul, I.S.M., Jinap, S., Karim, A.A., Abbas, K.A., Norulaini, N.A.N., Omar, A.K.M. (2009). Application of supercritical CO<inf>2</inf> in lipid extraction - A review. *Journal of Food Engineering*. 95(2): 240-253.	306
3	Ogata, Y., Takada, H., Mizukawa, K., Hirai, H., Iwasa, S., Endo, S., Mato, Y., Saha, M., Okuda, K., Nakashima, A., Murakami, M., Zurcher, N., Booyatumanondo, R., Zakaria, M.P., Dung, L.Q., Gordon, M., Miguez, C., Suzuki, S., Moore, C., Karapanagioti, H.K., Weerts, S., McClurg, T., Burres, E., Smith, W., Velkenburg, M.V., Lang, J.S., Lang, R.C., Laursen, D., Danner, B., Stewardson, N., Thompson, R.C. (2009). International Pellet Watch: Global monitoring of persistent organic pollutants (POPs) in coastal waters. 1. Initial phase data on PCBs, DDTs, and HCHs. *Marine Pollution Bulletin*. 58(10): 1437-1446.	230
4	Abu Bakar, M.F., Mohamed, M., Rahmat, A., Fry, J. (2009). Phytochemicals and antioxidant activity of different parts of bambangan (Mangifera pajang) and tarap (Artocarpus odoratissimus). *Food Chemistry*. 113(2): 479-483.	221
5	Matanjun, P., Mohamed, S., Mustapha, N.M., Muhammad, K. (2009). Nutrient content of tropical edible seaweeds, Eucheuma cottonii, Caulerpa lentillifera and Sargassum polycystum. *Journal of Applied Phycology*. 21(1): 75-80.	188
6	Nyam, K.L., Tan, C.P., Lai, O.M., Long, K., Che Man, Y.B. (2009). Physicochemical properties and bioactive compounds of selected seed oils. *LWT - Food Science and Technology*. 42(8): 1396-1403.	165

7	Ikram, E.H.K., Eng, K.H., Jalil, A.M.M., Ismail, A., Idris, S., Azlan, A., Nazri, H.S.M., Diton, N.A.M., Mokhtar, R.A.M. (2009). Antioxidant capacity and total phenolic content of Malaysian underutilized fruits. *Journal of Food Composition and Analysis*. 22(5): 388-393.	142
8	Aida, F.M.N.A., Shuhaimi, M., Yazid, M., Maaruf, A.G. (2009). Mushroom as a potential source of prebiotics: a review. *Trends in Food Science and Technology*. 20(11-Dec): 567-575.	131
9	Ashrafuzzaman, M., Hossen, F.A., M. Razi Ismail, Hoque, M.A., Islam, M.Z., Shahidullah, S.M., Meon, S. (2009). Efficiency of plant growth-promoting rhizobacteria (PGPR) for the enhancement of rice growth. *African Journal of Biotechnology*. 8(7): 1247-1252.	121
10	Saha, M., Togo, A., Mizukawa, K., Murakami, M., Takada, H., Zakaria, M.P., Chiem, N.H., Tuyen, B.C., Prudente, M., Boonyatumanond, R., Sarkar, S.K., Bhattacharya, B., Mishra, P., Tana, T.S. (2009). Sources of sedimentary PAHs in tropical Asian waters: Differentiation between pyrogenic and petrogenic sources by alkyl homolog abundance. *Marine Pollution Bulletin*. 58(2): 189-200.	118
11	Marina, A.M., Che Man, Y.B., Amin, I. (2009). Virgin coconut oil: emerging functional food oil. *Trends in Food Science and Technology*. 20(10): 481-487.	116
12	Marina, A.M., Che Man, Y.B., Nazimah, S.A.H., Amin, I. (2009). Antioxidant capacity and phenolic acids of virgin coconut oil. *International Journal of Food Sciences and Nutrition*. 60(SUPPL. 2): 114-123.	101
13	Rahmani, A., Jinap, S., Soleimany, F. (2009). Qualitative and quantitative analysis of mycotoxins. *Comprehensive Reviews in Food Science and Food Safety*. 8(3): 202-251.	98
14	Mariod, A.A., Ibrahim, R.M., Ismail, M., Ismail, N. (2009). Antioxidant activity and phenolic content of phenolic rich fractions obtained from black cumin (Nigella sativa) seedcake. *Food Chemistry*. 116(1): 306-312.	97
15	Murugaiah, C., Noor, Z.M., Mastakim, M., Bilung, L.M., Selamat, J., Radu, S. (2009). Meat species identification and Halal authentication analysis using mitochondrial DNA. *Meat Science*. 83(1): 57-61.	95
16	Tan, C.-H., Ghazali, H.M., Kuntom, A., Tan, C.-P., Ariffin, A.A. (2009). Extraction and physicochemical properties of low free fatty acid crude palm oil. *Food Chemistry*. 113(2): 645-650.	92
17	Chan, K.W., Ismail, M. (2009). Supercritical carbon dioxide fluid extraction of Hibiscus cannabinus L. seed oil: A potential solvent-free and high antioxidative edible oil. *Food Chemistry*. 114(3): 970-975.	91
18	Ariffin, A.A., Bakar, J., Tan, C.P., Rahman, R.A., Karim, R., Loi, C.C. (2009). Essential fatty acids of pitaya (dragon fruit) seed oil. *Food*	86

	Chemistry. 114(2): 561-564.	
19	Hajeb, P., Jinap, S., Ismail, A., Fatimah, A.B., Jamilah, B., Abdul Rahim, M. (2009). Assessment of mercury level in commonly consumed marine fishes in Malaysia. *Food Control*. 20(1): 79-84.	86
20	Shariffa, Y.N., Karim, A.A., Fazilah, A., Zaidul, I.S.M. (2009). Enzymatic hydrolysis of granular native and mildly heat-treated tapioca and sweet potato starches at sub-gelatinization temperature. *Food Hydrocolloids*. 23(2): 434-440.	84

Penerbitan Pegawai UPM tahun 2009 dalam bidang Sains Pertanian dan Biologi - 526 penerbitan

UPM Officers publications in 2009 in the Field of Agricultural and Biological Sciences – 526 publications

Jadual 21. Dua Puluh Petikan Teratas Bagi Penerbitan UPM Tahun 2010 Bidang Sains Pertanian dan Biologi

Table 21. Top Twenty Citations of UPM Publications Published 2010 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliograhic Information*	Bilangan Petikan *Number of Citations*
1	Rohman, A., Man, Y.B.C. (2010). Fourier transform infrared (FTIR) spectroscopy for analysis of extra virgin olive oil adulterated with palm oil. Food Research International. 43(3): 886-892.	199
2	Mustafa, R.A., Hamid, A.A., Mohamed, S., Bakar, F.A. (2010). Total phenolic compounds, flavonoids, and radical scavenging activity of 21 selected tropical plants. Journal of Food Science. 75(1): C28-C35.	140
3	Ismail, H.I., Chan, K.W., Mariod, A.A., Ismail, M. (2010). Phenolic content and antioxidant activity of cantaloupe (cucumis melo) methanolic extracts. Food Chemistry. 119(2): 643-647.	125
4	Mohamed, R., Wang, C.-T., Ma, C., Shevchenko, O., Dye, S.J., Puzey, J.R., Etherington, E., Sheng, X., Meilan, R., Strauss, S.H., Brunner, A.M. (2010). Populus CEN/TFL1 regulates first onset of flowering, axillary meristem identity and dormancy release in Populus. Plant Journal. 62(4): 674-688.	123
5	Hashim, D.M., Man, Y.B.C., Norakasha, R., Shuhaimi, M., Salmah, Y., Syahariza, Z.A. (2010). Potential use of Fourier transform infrared spectroscopy for differentiation of bovine and porcine gelatins. Food Chemistry. 118(3): 856-860.	120
6	Abd Ghafar, M.F., Prasad, K.N., Weng, K.K., Ismail, A. (2010). Flavonoid, hesperidine, total phenolic contents and antioxidant activities from Citrus species. African Journal of Biotechnology. 9(3): 326-330.	112
7	Thoo, Y.Y., Ho, S.K., Liang, J.Y., Ho, C.W., Tan, C.P. (2010). Effects of binary solvent extraction system, extraction time and extraction temperature on phenolic antioxidants and antioxidant capacity from mengkudu (Morinda citrifolia). Food Chemistry. 120(1): 290-295.	103
8	Uthumporn, U., Zaidul, I.S.M., Karim, A.A. (2010). Hydrolysis of granular starch at sub-gelatinization temperature using a mixture of amylolytic enzymes. Food and Bioproducts Processing. 88(1): 47-54.	99

9	Mohd-Esa, N., Hern, F.S., Ismail, A., Yee, C.L. (2010). Antioxidant activity in different parts of roselle (Hibiscus sabdariffa L.) extracts and potential exploitation of the seeds. Food Chemistry. 122(4): 1055-1060.	96
10	Farhadian, A., Jinap, S., Abas, F., Sakar, Z.I. (2010). Determination of polycyclic aromatic hydrocarbons in grilled meat. Food Control. 21(5): 606-610.	89
11	Liza, M.S., Abdul Rahman, R., Mandana, B., Jinap, S., Rahmat, A., Zaidul, I.S.M., Hamid, A. (2010). Supercritical carbon dioxide extraction of bioactive flavonoid from Strobilanthes crispus (Pecah Kaca). Food and Bioproducts Processing. 88(43526): 319-326.	85
12	Nor Nadiha, M.Z., Fazilah, A., Bhat, R., Karim, A.A. (2010). Comparative susceptibilities of sago, potato and corn starches to alkali treatment. Food Chemistry. 121(4): 1053-1059.	71
13	Anarjan, N., Mirhosseini, H., Baharin, B.S., Tan, C.P. (2010). Effect of processing conditions on physicochemical properties of astaxanthin nanodispersions. Food Chemistry. 123(2): 477-483.	68
14	Mia, M.B., Shamsuddin, Z.H., Wahab, Z., Marziah, M. (2010). Effect of plant growth promoting rhizobacterial (PGPR) inoculation on growth and nitrogen incorporation of tissue-cultured Musa plantlets under nitrogen-free hydroponics condition. Australian Journal of Crop Science. 4(2): 85-90.	65
15	Lee, A., Chaibakhsh, N., Rahman, M.B.A., Basri, M., Tejo, B.A. (2010). Optimized enzymatic synthesis of levulinate ester in solvent-free system. Industrial Crops and Products. 32(3): 246-251.	64
16	Liaghat, S., Balasundram, S.K. (2010). A review: The role of remote sensing in precision agriculture. American Journal of Agricultural and Biological Science. 5(1): 50-55.	63
16	Ismail, I., Hassan, Mohd.A., Abdul Rahman, N.A., Soon, C.S. (2010). Thermophilic biohydrogen production from palm oil mill effluent (POME) using suspended mixed culture. Biomass and Bioenergy. 34(1): 42-47.	63
17	Dourado-Neto, D., Powlson, D., Bakar, R.A., Bacchi, O.O.S., Basanta, M.V., Cong, P.T., Keerthisinghe, G., Ismaili, M., Rahman, S.M., Reichardt, K., Safwat, M.S.A., Sangakkara, R., Timm, L.C., Wang, J.Y., Zagal, E., Van Kessel, C. (2010). Multiseason recoveries of organic and inorganic nitrogen-15 in tropical cropping systems. Soil Science Society of America Journal. 74(1): 139-152.	62

18	Golnaz, R., Zainalabidin, M., Mad Nasir, S., Eddie Chiew, F.C. (2010). Non-muslims' awareness of Halal principles and related food products in Malaysia. International Food Research Journal. 17(3): 667-674.	60
19	Tyug, T.S., Prasad, K.N., Ismail, A. (2010). Antioxidant capacity, phenolics and isoflavones in soybean by-products. Food Chemistry. 123(3): 583-589.	58
20	Ponniah, J., Robin, T., Paie, M.S., Radu, S., Ghazali, F.M., Kqueen, C.Y., Nishibuchi, M., Nakaguchi, Y., Malakar, P.K. (2010). Listeria monocytogenes in raw salad vegetables sold at retail level in Malaysia. Food Control. 21(5): 774-778.	57

Penerbitan Pegawai UPM tahun 2010 dalam bidang Sains Pertanian dan Biologi - 539 penerbitan

UPM Officers publications in 2010 in the Field of Agricultural and Biological Sciences – 539 publications

Jadual 22. Dua Puluh Petikan Teratas Bagi Penerbitan Pegawai Tahun 2011 Bidang Sains Pertanian dan Biologi

Table 22. Top Twenty Citations of UPM Officers Publications Published 2011 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Short, F.T., Polidoro, B., Livingstone, S.R., Carpenter, K.E., Bandeira, S., Bujang, J.S., Calumpong, H.P., Carruthers, T.J.B., Coles, R.G., Dennison, W.C., Erftemeijer, P.L.A., Fortes, M.D., Freeman, A.S., Jagtap, T.G., Kamal, A.H.M., Kendrick, G.A., Judson Kenworthy, W., La Nafie, Y.A., Nasution, I.M., Orth, R.J., Prathep, A., Sanciangco, J.C., Tussenbroek, B.V., Vergara, S.G., Waycott, M., Zieman, J.C. (2011). Extinction risk assessment of the world's seagrass species. *Biological Conservation*. 144(7): 1961-1971.	311
2	Taufiq-Yap, Y.H., Lee, H.V., Hussein, M.Z., Yunus, R. (2011). Calcium-based mixed oxide catalysts for methanolysis of Jatropha curcas oil to biodiesel. *Biomass and Bioenergy*. 35(2): 827-834.	161
2	Ali, A., Muhammad, M.T.M., Sijam, K., Siddiqui, Y. (2011). Effect of chitosan coatings on the physicochemical characteristics of Eksotika II papaya (Carica papaya L.) fruit during cold storage. *Food Chemistry*. 124(2): 620-626.	161
3	Rohman, A., Sismindari, Erwanto, Y., Che Man, Y.B. (2011). Analysis of pork adulteration in beef meatball using Fourier transform infrared (FTIR) spectroscopy. *Meat Science*. 88(1): 91-95.	140
4	Bimakr, M., Rahman, R.A., Taip, F.S., Ganjloo, A., Salleh, L.M., Selamat, J., Hamid, A., Zaidul, I.S.M. (2011). Comparison of different extraction methods for the extraction of major bioactive flavonoid compounds from spearmint (Mentha spicata L.) leaves. *Food and Bioproducts Processing*. 89(1): 67-72.	131
5	Pui, C.F., Wong, W.C., Chai, L.C., Tunung, R., Jeyaletchumi, P., Noor Hidayah, M.N., Ubong, A., Farinazleen, M.G., Cheah, Y.K., Son, R. (2011). Salmonella: A foodborne pathogen. *International Food Research Journal*. 18(2): 465-473.	113
6	Harun, R., Davidson, M., Doyle, M., Gopiraj, R., Danquah, M., Forde, G. (2011). Technoeconomic analysis of an integrated microalgae photobioreactor, biodiesel and biogas production facility. *Biomass and Bioenergy*. 35(1): 741-747.	105
7	Prasad, K.N., Hassan, F.A., Yang, B., Kong, K.W., Ramanan, R.N., Azlan, A., Ismail, A. (2011). Response surface optimisation for the extraction of phenolic compounds and antioxidant capacities of	102

	underutilised Mangifera pajang Kosterm. peels. *Food Chemistry*. 128(4): 1121-1127.	
8	Tan, H.Y., Sieo, C.C., Abdullah, N., Liang, J.B., Huang, X.D., Ho, Y.W. (2011). Effects of condensed tannins from Leucaena on methane production, rumen fermentation and populations of methanogens and protozoa in vitro. *Animal Feed Science and Technology*. 169(43558): 185-193.	97
9	Maqbool, M., Ali, A., Alderson, P.G., Mohamed, M.T.M., Siddiqui, Y., Zahid, N. (2011). Postharvest application of gum arabic and essential oils for controlling anthracnose and quality of banana and papaya during cold storage. *Postharvest Biology and Technology*. 62(1): 71-76.	84
10	Nurjuliana, M., Che Man, Y.B., Mat Hashim, D., Mohamed, A.K.S. (2011). Rapid identification of pork for halal authentication using the electronic nose and gas chromatography mass spectrometer with headspace analyzer. *Meat Science*. 88(4): 638-644.	75
11	Amal, M.N.A., Zamri-Saad, M. (2011). Streptococcosis in Tilapia (Oreochromis niloticus): A review. *Pertanika Journal of Tropical Agricultural Science*. 34(2): 195-206.	73
12	Ghasemzadeh, A., Jaafar, H.Z.E., Rahmat, A. (2011). Effects of solvent type on phenolics and flavonoids content and antioxidant activities in two varieties of young ginger (Zingiber officinale Roscoe) extracts. *Journal of Medicinal Plants Research*. 5(7): 1147-1154.	67
13	Oskoueian, E., Abdullah, N., Saad, W.Z., Omar, A.R., Ahmad, S., Kuan, W.B., Zolkifli, N.A., Hendra, R., Ho, Y.W. (2011). Antioxidant, anti-inflammatory and anticancer activities of methanolic extracts from Jatropha curcas Linn. *Journal of Medicinal Plants Research*. 5(1): 49-57.	67
14	Azhar, B., Lindenmayer, D.B., Wood, J., Fischer, J., Manning, A., McElhinny, C., Zakaria, M. (2011). The conservation value of oil palm plantation estates, smallholdings and logged peat swamp forest for birds. *Forest Ecology and Management*. 262(12): 2306-2315.	66
14	Kamal, G.M., Anwar, F., Hussain, A.I., Sarri, N., Ashraf, M.Y. (2011). Yield and chemical composition of Citrus essential oils as affected by drying pretreatment of peels. *International Food Research Journal*. 18(4): 1275-1282.	66
15	Maqbool, M., Ali, A., Alderson, P.G., Zahid, N., Siddiqui, Y. (2011). Effect of a novel edible composite coating based on gum arabic and chitosan on biochemical and physiological responses of banana fruits during cold storage. *Journal of Agricultural and Food Chemistry*. 59(10): 5474-5482.	63
16	Win, M.M., Abdul-Hamid, A., Baharin, B.S., Anwar, F., Sabu, M.C., Pak-dek, M.S. (2011). Phenolic compounds and antioxidant activity of peanut's skin, hull, raw kernel and roasted kernel flour. *Pakistan*	59

	Journal of Botany. 43(3): 1635-1642.	
16	Rashid, U., Anwar, F., Knothe, G. (2011). Biodiesel from Milo (Thespesia populnea L.) seed oil. *Biomass and Bioenergy*. 35(9): 4034-4039.	55
16	Natrah, F.M.I., Defoirdt, T., Sorgeloos, P., Bossier, P. (2011). Disruption of Bacterial Cell-to-Cell Communication by Marine Organisms and its Relevance to Aquaculture. *Marine Biotechnology*. 13(2): 109-126.	55
17	Natrah, F.M.I., Kenmegne, M.M., Wiyoto, W., Sorgeloos, P., Bossier, P., Defoirdt, T. (2011). Effects of micro-algae commonly used in aquaculture on acyl-homoserine lactone quorum sensing. *Aquaculture*. 317(43556): 53-57.	58
17	Petrus, E.M., Tinakumari, S., Chai, L.C., Ubong, A., Tunung, R., Elexson, N., Chai, L.F., Son, R. (2011). A study on the minimum inhibitory concentration and minimum bactericidal concentration of nano colloidal silver on food-borne pathogens. *International Food Research Journal*. 18(1): 55-66.	58
17	Rohman, A., Che Man, Y.B. (2011). The use of Fourier transform mid infrared (FT-MIR) spectroscopy for detection and quantification of adulteration in virgin coconut oil. *Food Chemistry*. 129(2): 583-588.	53
17	Pui, C.F., Wong, W.C., Chai, L.C., Nillian, E., Ghazali, F.M., Cheah, Y.K., Nakaguchi, Y., Nishibuchi, M., Radu, S. (2011). Simultaneous detection of Salmonella spp., Salmonella Typhi and Salmonella Typhimurium in sliced fruits using multiplex PCR. *Food Control*. 22(2): 337-342.	53
18	Farhadian, A., Jinap, S., Hanifah, H.N., Zaidul, I.S. (2011). Effects of meat preheating and wrapping on the levels of polycyclic aromatic hydrocarbons in charcoal-grilled meat. *Food Chemistry*. 124(1): 141-146.	52
19	Chong, C.Y., Bakar, F.A., Russly, A.R., Jamilah, B., Mahyudin, N.A. (2011). The effects of food processing on biogenic amines formation. *International Food Research Journal*. 18(3): 867-876.	51
19	Zaman, M.Z., Abu Bakar, F., Jinap, S., Bakar, J. (2011). Novel starter cultures to inhibit biogenic amines accumulation during fish sauce fermentation. *International Journal of Food Microbiology*. 145(1): 84-91.	51
20	Jamilah, B., Shu, C.E., Kharidah, M., Dzulkifly, M.A., Noranizan, A. (2011). Physico-chemical characteristics of red pitaya (Hylocereus polyrhizus) peel. *International Food Research Journal*. 18(1): 279-286.	49

Penerbitan Pegawai UPM tahun 2011 dalam bidang Sains Pertanian dan Biologi - 811 penerbitan

UPM Officers publications in 2011 in the Field of Agricultural and Biological Sciences – 811 publications

Jadual 23. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2012 Bidang Sains Pertanian dan Biologi

Table 23. Top Twenty Citations of UPM Officers Publications Published in 2012 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Mohamed, S., Hashim, S.N., Rahman, H.A. (2012). Seaweeds: A sustainable functional food for complementary and alternative therapy. *Trends in Food Science and Technology*. 23(2): 83-96.	213
2	Kia, M.B., Pirasteh, S., Pradhan, B., Mahmud, A.R., Sulaiman, W.N.A., Moradi, A. (2012). An artificial neural network model for flood simulation using GIS: Johor River Basin, Malaysia. *Environmental Earth Sciences*. 67(1): 251-264.	155
3	Zokaeifar, H., Balcázar, J.L., Saad, C.R., Kamarudin, M.S., Sijam, K., Arshad, A., Nejat, N. (2012). Effects of Bacillus subtilis on the growth performance, digestive enzymes, immune gene expression and disease resistance of white shrimp, Litopenaeus vannamei. *Fish and Shellfish Immunology*. 33(4): 683-689.	125
4	Tripathi, B.M., Kim, M., Singh, D., Lee-Cruz, L., Lai-Hoe, A., Ainuddin, A.N., Go, R., Rahim, R.A., Husni, M.H.A., Chun, J., Adams, J.M. (2012). Tropical Soil Bacterial Communities in Malaysia: PH Dominates in the Equatorial Tropics Too. *Microbial Ecology*. 64(2): 474-484.	112
5	Mirhosseini, H., Amid, B.T. (2012). A review study on chemical composition and molecular structure of newly plant gum exudates and seed gums. *Food Research International*. 46(1): 387-398.	106
6	Nakyinsige, K., Man, Y.B.C., Sazili, A.Q. (2012). Halal authenticity issues in meat and meat products. *Meat Science*. 91(3): 207-214.	101
7	Soleimany, F., Jinap, S., Abas, F. (2012). Determination of mycotoxins in cereals by liquid chromatography tandem mass spectrometry. *Food Chemistry*. 130(4): 1055-1060.	91
8	Gazzaz, N.M., Yusoff, M.K., Aris, A.Z., Juahir, H., Ramli, M.F. (2012). Artificial neural network modeling of the water quality index for Kinta River (Malaysia) using water quality variables as predictors. *Marine Pollution Bulletin*. 64(11): 2409-2420.	87
9	Tey, Y.S., Brindal, M. (2012). Factors influencing the adoption of precision agricultural technologies: A review for policy implications. *Precision Agriculture*. 13(6): 713-730.	80
10	Ho, W.Y., Yeap, S.K., Ho, C.L., Rahim, R.A., Alitheen, N.B. (2012). Development of Multicellular Tumor Spheroid (MCTS) Culture from Breast Cancer Cell and a High Throughput Screening Method Using	79

	the MTT Assay. *PLoS ONE*. 7(9): 1-7.	
11	Soleimany, F., Jinap, S., Faridah, A., Khatib, A. (2012). A UPLC-MS/MS for simultaneous determination of aflatoxins, ochratoxin A, zearalenone, DON, fumonisins, T-2 toxin and HT-2 toxin, in cereals. *Food Control*. 25(2): 647-653.	77
12	Amid, B.T., Mirhosseini, H. (2012). Optimisation of aqueous extraction of gum from durian (Durio zibethinus) seed: A potential, low cost source of hydrocolloid. *Food Chemistry*. 132(3): 1258-1268.	74
13	Namvar, F., Mohamed, S., Fard, S.G., Behravan, J., Mustapha, N.M., Alitheen, N.B.M., Othman, F. (2012). Polyphenol-rich seaweed (Eucheuma cottonii) extract suppresses breast tumour via hormone modulation and apoptosis induction. *Food Chemistry*. 130(2): 376-382.	73
13	Nakata, H., Shinohara, R.-I., Nakazawa, Y., Isobe, T., Sudaryanto, A., Subramanian, A., Tanabe, S., Zakaria, M.P., Zheng, G.J., Lam, P.K.S., Kim, E.Y., Min, B.-Y., We, S.-U., Viet, P.H., Tana, T.S., Prudente, M., Frank, D., Lauenstein, G., Kannan, K. (2012). Asia-Pacific mussel watch for emerging pollutants: Distribution of synthetic musks and benzotriazole UV stabilizers in Asian and US coastal waters. *Marine Pollution Bulletin*. 64(10): 2211-2218.	73
14	Abdul-Mutalib, N.-A., Abdul-Rashid, M.-F., Mustafa, S., Amin-Nordin, S., Hamat, R.A., Osman, M. (2012). Knowledge, attitude and practices regarding food hygiene and sanitation of food handlers in Kuala Pilah, Malaysia. *Food Control*. 27(2): 289-293.	67
15	Shamsudin, S., Md Shah, U.K., Zainudin, H., Abd-Aziz, S., Mustapa Kamal, S.M., Shirai, Y., Hassan, M.A. (2012). Effect of steam pretreatment on oil palm empty fruit bunch for the production of sugars. *Biomass and Bioenergy*. 36: 280-288.	61
16	Ali, M.E., Hashim, U., Mustafa, S., Che Man, Y.B., Dhahi, T., Kashif, M., Uddin, M.K., Abd Hamid, S.B. (2012). Analysis of pork adulteration in commercial meatballs targeting porcine-specific mitochondrial cytochrome b gene by TaqMan probe real-time polymerase chain reaction. *Meat Science*. 91(4): 454-459.	58
17	Kong, K.W., Mat-Junit, S., Aminudin, N., Ismail, A., Abdul-Aziz, A. (2012). Antioxidant activities and polyphenolics from the shoots of Barringtonia racemosa (L.) Spreng in a polar to apolar medium system. *Food Chemistry*. 134(1): 324-332.	57
17	Ali, M.E., Kashif, M., Uddin, K., Hashim, U., Mustafa, S., Che Man, Y.B. (2012). Species Authentication Methods in Foods and Feeds: The Present, Past, and Future of Halal Forensics. *Food Analytical Methods*. 5(5): 935-955.	57
17	Amid, M., Shuhaimi, M., Islam Sarker, M.Z., Abdul Manap, M.Y. (2012). Purification of serine protease from mango (Mangifera Indica Cv. Chokanan) peel using an alcohol/salt aqueous two phase system. *Food Chemistry*. 132(3): 1382-1386.	57

17	Kim, M., Singh, D., Lai-Hoe, A., Go, R., Rahim, R.A., Ainuddin, A.N., Chun, J., Adams, J.M. (2012). Distinctive Phyllosphere Bacterial Communities in Tropical Trees. *Microbial Ecology*. 63(3): 674-681.	57
17	Prasanna, M.V., Praveena, S.M., Chidambaram, S., Nagarajan, R., Elayaraja, A. (2012). Evaluation of water quality pollution indices for heavy metal contamination monitoring: A case study from Curtin Lake, Miri City, East Malaysia. *Environmental Earth Sciences*. 67(7): 1987-2001.	57
18	Rampal, S., Mahadeva, S., Guallar, E., Bulgiba, A., Mohamed, R., Rahmat, R., Arif, M.T., Rampal, L. (2012). Ethnic Differences in the Prevalence of Metabolic Syndrome: Results from a Multi-Ethnic Population-Based Survey in Malaysia. *PLoS ONE*. 7(9): 1-8.	55
19	Jokar, M., Abdul Rahman, R., Ibrahim, N.A., Abdullah, L.C., Tan, C.P. (2012). Melt Production and Antimicrobial Efficiency of Low-Density Polyethylene (LDPE)-Silver Nanocomposite Film. *Food and Bioprocess Technology*. 5(2): 719-728.	53
20	Cheok, C.Y., Chin, N.L., Yusof, Y.A., Talib, R.A., Law, C.L. (2012). Optimization of total phenolic content extracted from Garcinia mangostana Linn. hull using response surface methodology versus artificial neural network. *Industrial Crops and Products*. 40(1): 247-253.	51

Penerbitan Pegawai UPM tahun 2012 dalam bidang Sains Pertanian dan Biologi - 680 penerbitan

UPM Officers publications in 2012 in the Field of Agricultural and Biological Sciences - 680 publications

Jadual 24. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2013
Bidang Sains Pertanian dan Biologi

Table 24. Top Twenty Citations of UPM Officers Publications Published in 2013 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Al-Sheraji, S.H., Ismail, A., Manap, M.Y., Mustafa, S., Yusof, R.M., Hassan, F.A. (2013). Prebiotics as functional foods: A review. *Journal of Functional Foods*. 5(4): 1542-1553.	193
2	Ghani, W.A.W.A.K., Mohd, A., da Silva, G., Bachmann, R.T., Taufiq-Yap, Y.H., Rashid, U., Al-Muhtaseb, A.H. (2013). Biochar production from waste rubber-wood-sawdust and its potential use in C sequestration: Chemical and physical characterization. *Industrial Crops and Products*. 44: 18-24.	110
3	Condon, B.J., Leng, Y., Wu, D., Bushley, K.E., Ohm, R.A., Otillar, R., Martin, J., Schackwitz, W., Grimwood, J., MohdZainudin, N.A.I., Xue, C., Wang, R., Manning, V.A., Dhillon, B., Tu, Z.J., Steffenson, B.J., Salamov, A., Sun, H., Lowry, S., LaButti, K., Han, J., Copeland, A., Lindquist, E., Barry, K., Schmutz, J., Baker, S.E., Ciuffetti, L.M., Grigoriev, I.V., Zhong, S., Turgeon, B.G. (2013). Comparative Genome Structure, Secondary Metabolite, and Effector Coding Capacity across Cochliobolus Pathogens. *PLoS Genetics*. 9(1): 1-29.	108
4	Biro, K., Pradhan, B., Buchroithner, M., Makeschin, F. (2013). Land Use/Land Cover Change Analysis And Its Impact On Soil Properties In The Northern Part Of Gadarif Region, Sudan. *Land Degradation and Development*. 24(1): 90-102.	100
5	Al-shalabi, M., Billa, L., Pradhan, B., Mansor, S., Al-Sharif, A.A.A. (2013). Modelling urban growth evolution and land-use changes using GIS based cellular automata and SLEUTH models: The case of Sana'a metropolitan city, Yemen. *Environmental Earth Sciences*. 70(1): 425-437.	84
6	Aziz, Y.A., Chok, N.V. (2013). The Role of Halal Awareness, Halal Certification, and Marketing Components in Determining Halal Purchase Intention Among Non-Muslims in Malaysia: A Structural Equation Modeling Approach. *Journal of International Food and Agribusiness Marketing*. 25(1): 1-23.	70
7	Kek, S.P., Chin, N.L., Yusof, Y.A. (2013). Direct and indirect power ultrasound assisted pre-osmotic treatments in convective drying of guava slices. *Food and Bioproducts Processing*. 91(4): 495-506.	63
7	Jahurul, M.H.A., Zaidul, I.S.M., Norulaini, N.A.N., Sahena, F., Jinap, S., Azmir, J., Sharif, K.M., Mohd Omar, A.K. (2013). Cocoa butter	63

	fats and possibilities of substitution in food products concerning cocoa varieties, alternative sources, extraction methods, composition, and characteristics. *Journal of Food Engineering*. 117(4): 467-476.	
8	Afsah-Hejri, L., Jinap, S., Hajeb, P., Radu, S., Shakibazadeh, S. (2013). A review on mycotoxins in food and feed: Malaysia case study. *Comprehensive Reviews in Food Science and Food Safety*. 12(6): 629-651.	55
8	Chin, K.L., H'ng, P.S., Go, W.Z., Wong, W.Z., Lim, T.W., Maminski, M., Paridah, M.T., Luqman, A.C. (2013). Optimization of torrefaction conditions for high energy density solid biofuel from oil palm biomass and fast growing species available in Malaysia. *Industrial Crops and Products*. 49: 768-774.	55
9	Elsheikh, R., Mohamed Shariff, A.R.B., Amiri, F., Ahmad, N.B., Balasundram, S.K., Soom, M.A.M. (2013). Agriculture Land Suitability Evaluator (ALSE): A decision and planning support tool for tropical and subtropical crops. *Computers and Electronics in Agriculture*. 93: 98-110.	52
10	Tan, M.C., Tan, C.P., Ho, C.W. (2013). Effects of extraction solvent system, time and temperature on total phenolic content of henna (Lawsonia inermis) stems. *International Food Research Journal*. 20(6): 3117-3123.	51
10	Gan, C.H., Nurul Amira, B., Asmah, R. (2013). Antioxidant analysis of different types of edible mushrooms (agaricus bisporous and agaricus brasiliensis). *International Food Research Journal*. 20(3): 1095-1102.	51
11	Maisarah, A.M., Nurul Amira, B., Asmah, R., Fauziah, O. (2013). Antioxidant analysis of different parts of Carica papaya. *International Food Research Journal*. 20(3): 1043-1048.	50
11	Rashid, U., Ibrahim, M., Yasin, S., Yunus, R., Taufiq-Yap, Y.H., Knothe, G. (2013). Biodiesel from Citrus reticulata (mandarin orange) seed oil, a potential non-food feedstock. *Industrial Crops and Products*. 45: 355-359.	50
12	Retnam, A., Zakaria, M.P., Juahir, H., Aris, A.Z., Zali, M.A., Kasim, M.F. (2013). Chemometric techniques in distribution, characterisation and source apportionment of polycyclic aromatic hydrocarbons (PAHS) in aquaculture sediments in Malaysia. *Marine Pollution Bulletin*. 69(43497): 55-66.	49
13	Nehdi, I.A., Sbihi, H., Tan, C.P., Al-Resayes, S.I. (2013). Evaluation and characterisation of Citrullus colocynthis (L.) Schrad seed oil: Comparison with Helianthus annuus (sunflower) seed oil. *Food Chemistry*. 136(2): 348-353.	48
13	Azhar, B., Lindenmayer, D.B., Wood, J., Fischer, J., Manning, A., McElhinny, C., Zakaria, M. (2013). The influence of agricultural system, stand structural complexity and landscape context on	48

	foraging birds in oil palm landscapes. *Ibis*. 155(2): 297-312.	
14	Nakyinsige, K., Che Man, Y.B., Aghwan, Z.A., Zulkifli, I., Goh, Y.M., Abu Bakar, F., Al-Kahtani, H.A., Sazili, A.Q. (2013). Stunning and animal welfare from Islamic and scientific perspectives. *Meat Science*. 95(2): 352-361.	46
15	Hashim, N., Pflanz, M., Regen, C., Janius, R.B., Abdul Rahman, R., Osman, A., Shitan, M., Zude, M. (2013). An approach for monitoring the chilling injury appearance in bananas by means of backscattering imaging. *Journal of Food Engineering*. 116(1): 28-36.	45
16	Anarjan, N., Tan, C.P. (2013). Developing a three component stabilizer system for producing astaxanthin nanodispersions. *Food Hydrocolloids*. 30(1): 437-447.	43
17	Kassim, N.K., Rahmani, M., Ismail, A., Sukari, M.A., Ee, G.C.L., Nasir, N.M., Awang, K. (2013). Antioxidant activity-guided separation of coumarins and lignan from Melicope glabra (Rutaceae). *Food Chemistry*. 139(43556): 87-92.	42
17	Nejat, N., Vadamalai, G., Davis, R.E., Harrison, N.A., Sijam, K., Dickinson, M., Abdullah, S.N.A., Zhao, Y. (2013). 'Candidatus phytoplasma malaysianum', a novel taxon associated with virescence and phyllody of Madagascar periwinkle (Catharanthus roseus). *International Journal of Systematic and Evolutionary Microbiology*. 63(0): 540-548.	42
18	Hassan, M.A., Yee, L.-N., Yee, P.L., Ariffin, H., Raha, A.R., Shirai, Y., Sudesh, K. (2013). Sustainable production of polyhydroxyalkanoates from renewable oil-palm biomass. *Biomass and Bioenergy*. 50: 1-9.	41
19	Zulkifly, S.B., Graham, J.M., Young, E.B., Mayer, R.J., Piotrowski, M.J., Smith, I., Graham, L.E. (2013). The Genus Cladophora Kützing (Ulvophyceae) as a Globally Distributed Ecological Engineer. *Journal of Phycology*. 49(1): 1-17.	40
20	Al-Odaini, N.A., Zakaria, M.P., Yaziz, M.I., Surif, S., Abdulghani, M. (2013). The occurrence of human pharmaceuticals in wastewater effluents and surface water of Langat River and its tributaries, Malaysia. *International Journal of Environmental Analytical Chemistry*. 93(3): 245-264.	39

Penerbitan Pegawai UPM tahun 2013 dalam bidang Sains Pertanian dan Biologi - 829 penerbitan

UPM Officers publications in 2013 in the Field of Agricultural and Biological Sciences - 829 publications

Jadual 25. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2014 Bidang Sains Pertanian dan Biologi

Table 25. Top Twenty Citations of UPM Officers Publications Published in 2014 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Hyde, K.D., Nilsson, R.H., Alias, S.A., Ariyawansa, H.A., Blair, J.E., Cai, L., de Cock, A.W.A.M., Dissanayake, A.J., Glockling, S.L., Goonasekara, I.D., Gorczak, M., Hahn, M., Jayawardena, R.S., van Kan, J.A.L., Laurence, M.H., Lévesque, C.A., Li, X., Liu, J.-K., Maharachchikumbura, S.S.N., Manamgoda, D.S., Martin, F.N., McKenzie, E.H.C., McTaggart, A.R., Mortimer, P.E., Nair, P.V.R., Pawłowska, J., Rintoul, T.L., Shivas, R.G., Spies, C.F.J., Summerell, B.A., Taylor, P.W.J., Terhem, R.B., Udayanga, D., Vaghefi, N., Walther, G., Wilk, M., Wrzosek, M., Xu, J.-C., Yan, J.Y., Zhou, N. (2014). One stop shop: backbones trees for important phytopathogenic genera: I (2014). *Fungal Diversity*. 67(1): 21-125.	160
2	Cheok, C.Y., Salman, H.A.K., Sulaiman, R. (2014). Extraction and quantification of saponins: A review. *Food Research International*. 59: 16-40.	109
3	Jebur, M.N., Pradhan, B., Tehrany, M.S. (2014). Optimization of landslide conditioning factors using very high-resolution airborne laser scanning (LiDAR) data at catchment scale. *Remote Sensing of Environment*. 152: 150-165.	102
4	Azarakhsh, N., Osman, A., Ghazali, H.M., Tan, C.P., Mohd Adzahan, N. (2014). Lemongrass essential oil incorporated into alginate-based edible coating for shelf-life extension and quality retention of fresh-cut pineapple. *Postharvest Biology and Technology*. 88: 1-7.	98
5	Calingacion, M., Laborte, A., Nelson, A., Resurreccion, A., Concepcion, J.C., Daygon, V.D., Mumm, R., Reinke, R., Dipti, S., Bassinello, P.Z., Manful, J., Sophany, S., Lara, K.C., Bao, J., Xie, L., Loaiza, K., El-hissewy, A., Gayin, J., Sharma, N., Rajeswari, S., Manonmani, S., Rani, N.S., Kota, S., Indrasari, S.D., Habibi, F., Hosseini, M., Tavasoli, F., Suzuki, K., Umemoto, T., Boualaphanh, C., Lee, H.H., Hung, Y.P., Ramli, A., Aung, P.P., Ahmad, R., Wattoo, J.I., Bandonill, E., Romero, M., Brites, C.M., Hafeel, R., Lur, H.-S., Cheaupun, K., Jongdee, S., Blanco, P., Bryant, R., Lang, N.T., Hall, R.D., Fitzgerald, M. (2014). Diversity of global rice markets and the science required for consumer-targeted rice breeding. *PLoS ONE*. 9(1): 1-12.	95
6	Neshat, A., Pradhan, B., Pirasteh, S., Shafri, H.Z.M. (2014).	85

	Estimating groundwater vulnerability to pollution using a modified DRASTIC model in the Kerman agricultural area, Iran. *Environmental Earth Sciences*. 71(7): 3119-3131.	
7	Hudson, L.N., Newbold, T., Contu, S., Hill, S.L.L., Lysenko, I., De Palma, A., Phillips, H.R.P., Senior, R.A., Bennett, D.J., Booth, H., Choimes, A., Correia, D.L.P., Day, J., Echeverría-Londoño, S., Garon, M., Harrison, M.L.K., Ingram, D.J., Jung, M., Kemp, V., Kirkpatrick, L., Martin, C.D., Pan, Y., White, H.J., Aben, J., Abrahamczyk, S., Adum, G.B., Aguilar-Barquero, V., Aizen, M.A., Ancrenaz, M., Arbeláez-Cortés, E., Armbrecht, I., Azhar, B., Azpiroz, A.B., Baeten, L., Báldi, A., Banks, J.E., Barlow, J., Batáry, P., Bates, A.J., Bayne, E.M., Beja, P., Berg, A., Berry, N.J., Bicknell, J.E., Bihn, J.H., Böhning-Gaese, K., Boekhout, T., Boutin, C., Bouyer, J., Brearley, F.Q., Brito, I., Brunet, J., Buczkowski, G., Buscardo, E., Cabra-García, J., Calviño-Cancela, M., Cameron, S.A., Cancello, E.M., Carrijo, T.F., Carvalho, A.L., Castro, H., Castro-Luna, A.A., Cerda, R., Cerezo, A., Chauvat, M., Clarke, F.M., Cleary, D.F.R., Connop, S.P., D'Aniello, B., da Silva, P.G., Darvill, B., Dauber, J., Dejean, A., Diekötter, T., Dominguez-Haydar, Y., Dormann, C.F., Dumont, B., Dures, S.G., Dynesius, M., Edenius, L., Elek, Z., Entling, M.H., Farwig, N., Fayle, T.M., Felicioli, A., Felton, A.M., Ficetola, G.F., Filgueiras, B.K.C., Fonte, S.J., Fraser, L.H., Fukuda, D., Furlani, D., Ganzhorn, J.U., Garden, J.G., Gheler-Costa, C., Giordani, P., Giordano, S., Gottschalk, M.S., Goulson, D., Gove, A.D., Grogan, J., Hanley, M.E., Hanson, T., Hashim, N.R., Hawes, J.E., Hébert, C., Helden, A.J., Henden, J.-A., Hernández, L., Herzog, F., Higuera-Diaz, D., Hilje, B., Horgan, F.G., Horváth, R., Hylander, K., Isaacs-Cubides, P., Ishitani, M., Jacobs, C.T., Jaramillo, V.J., Jauker, B., Jonsell, M., Jung, T.S., Kapoor, V., Kati, V., Katovai, E., Kessler, M., Knop, E., Kolb, A., Korösi, Á., Lachat, T., Lantschner, V., Le Féon, V., Lebuhn, G., Légaré, J.-P., Letcher, S.G., Littlewood, N.A., López-Quintero, C.A., Louhaichi, M., Lövei, G.L., Lucas-Borja, M.E., Luja, V.H., Maeto, K., Magura, T., Mallari, N.A., Marin-Spiotta, E., Marshall, E.J.P., Martínez, E., Mayfield, M.M., Mikusinski, G., Milder, J.C., Miller, J.R., Morales, C.L., Muchane, M.N., Muchane, M., Naidoo, R., Nakamura, A., Naoe, S., Nates-Parra, G., Navarrete Gutierrez, D.A., Neuschulz, E.L., Noreika, N., Norfolk, O., Noriega, J.A., Nöske, N.M., O'Dea, N., Oduro, W., Ofori-Boateng, C., Oke, C.O., Osgathorpe, L.M., Paritsis, J., Parra-H, A., Pelegrin, N., Peres, C.A., Persson, A.S., Petanidou, T., Phalan, B., Philips, T.K., Poveda, K., Power, E.F., Presley, S.J., Proença, V., Quaranta, M., Quintero, C., Redpath-Downing, N.A., Reid, J.L., Reis, Y.T., Ribeiro, D.B., Richardson, B.A., Richardson, M.J., Robles, C.A., Römbke, J., Romero-Duque, L.P., Rosselli, L., Rossiter, S.J., Roulston, T.H., Rousseau, L., Sadler, J.P., Sáfián, S., Saldaña-Vázquez, R.A.,	81

	Samnegård, U., Schüepp, C., Schweiger, O., Sedlock, J.L., Shahabuddin, G., Sheil, D., Silva, F.A.B., Slade, E.M., Smith-Pardo, A.H., Sodhi, N.S., Somarriba, E.J., Sosa, R.A., Stout, J.C., Struebig, M.J., Sung, Y.-H., Threlfall, C.G., Tonietto, R., Tóthmérész, B., Tscharntke, T., Turner, E.C., Tylianakis, J.M., Vanbergen, A.J., Vassilev, K., Verboven, H.A.F., Vergara, C.H., Vergara, P.M., Verhulst, J., Walker, T.R., Wang, Y., Watling, J.I., Wells, K., Williams, C.D., Willig, M.R., Woinarski, J.C.Z., Wolf, J.H.D., Woodcock, B.A., Yu, D.W., Zaitsev, A.S., Collen, B., Ewers, R.M., Mace, G.M., Purves, D.W., Scharlemann, J.P.W., Purvis, A. (2014). The PREDICTS database: A global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution*. 4(24): 4701-4735.	
8	Mohamed, S. (2014). Functional foods against metabolic syndrome (obesity, diabetes, hypertension and dyslipidemia) and cardiovasular disease. *Trends in Food Science and Technology*. 35(2): 114-128.	78
9	Mookiah, S., Sieo, C.C., Ramasamy, K., Abdullah, N., Ho, Y.W. (2014). Effects of dietary prebiotics, probiotic and synbiotics on performance, caecal bacterial populations and caecal fermentation concentrations of broiler chickens. *Journal of the Science of Food and Agriculture*. 94(2): 341-348.	68
10	Tehrany, M.S., Lee, M.-J., Pradhan, B., Jebur, M.N., Lee, S. (2014). Flood susceptibility mapping using integrated bivariate and multivariate statistical models. *Environmental Earth Sciences*. 72(10): 4001-4015.	56
11	Farouk, M.M., Al-Mazeedi, H.M., Sabow, A.B., Bekhit, A.E.D., Adeyemi, K.D., Sazili, A.Q., Ghani, A. (2014). Halal and kosher slaughter methods and meat quality: A review. *Meat Science*. 98(3): 505-519.	55
12	Natrah, F.M.I., Bossier, P., Sorgeloos, P., Yusoff, F.M., Defoirdt, T. (2014). Significance of microalgal-bacterial interactions for aquaculture. *Reviews in Aquaculture*. 6(1): 48-61.	50
13	Ali, F., Ismail, A., Kersten, S. (2014). Molecular mechanisms underlying the potential antiobesity-related diseases effect of cocoa polyphenols. *Molecular Nutrition and Food Research*. 58(1): 33-48.	49
13	Zokaeifar, H., Babaei, N., Saad, C.R., Kamarudin, M.S., Sijam, K., Balcazar, J.L. (2014). Administration of Bacillus subtilis strains in the rearing water enhances the water quality, growth performance, immune response, and resistance against Vibrio harveyi infection in juvenile white shrimp, Litopenaeus vannamei. *Fish and Shellfish Immunology*. 36(1): 68-74.	49
14	Ohba, K., Ichiyama, K., Yajima, M., Gemma, N., Nikaido, M., Wu, Q., Chong, P., Mori, S., Yamamoto, R., Wong, J.E.L., Yamamoto, N. (2014). In vivo and in vitro studies suggest a possible involvement of	48

	HPV infection in the early stage of breast carcinogenesis via APOBEC3B induction. *PLoS ONE*. 9(5): 1-12.	
14	Keshavarzifard, M., Zakaria, M.P., Shau Hwai, T., Mohamat Yusuff, F.F., Mustafa, S., Vaezzadeh, V., Magam, S.M., Masood, N., Alkhadher, S.A.A., Abootalebi-Jahromi, F. (2014). Baseline distributions and sources of Polycyclic Aromatic Hydrocarbons (PAHs) in the surface sediments from the Prai and Malacca Rivers, Peninsular Malaysia. *Marine Pollution Bulletin*. 88(43497): 366-372.	48
14	Iqbal, S.Z., Nisar, S., Asi, M.R., Jinap, S. (2014). Natural incidence of aflatoxins, ochratoxin A and zearalenone in chicken meat and eggs. *Food Control*. 43: 98-103.	48
15	Falamarzi, Y., Palizdan, N., Huang, Y.F., Lee, T.S. (2014). Estimating evapotranspiration from temperature and wind speed data using artificial and wavelet neural networks (WNNs). *Agricultural Water Management*. 140: 26-36.	47
16	Lum, M.S., Hanafi, M.M., Rafii, Y.M. (2014). Effect of drought stress on growth, proline and antioxidant enzyme activities of upland rice. *Journal of Animal and Plant Sciences*. 24(5): 1487-1493.	46
17	Hamdan, O., Khali Aziz, H., Mohd Hasmadi, I. (2014). L-band ALOS PALSAR for biomass estimation of Matang Mangroves, Malaysia. *Remote Sensing of Environment*. 155: 69-78.	45
18	Iqbal, S.Z., Rabbani, T., Asi, M.R., Jinap, S. (2014). Assessment of aflatoxins, ochratoxin A and zearalenone in breakfast cereals. *Food Chemistry*. 157: 257-262.	44
19	Samaram, S., Mirhosseini, H., Tan, C.P., Ghazali, H.M. (2014). Ultrasound-assisted extraction and solvent extraction of papaya seed oil: Crystallization and thermal behavior, saturation degree, color and oxidative stability. *Industrial Crops and Products*. 52: 702-708.	43
20	Ude, C.C., Sulaiman, S.B., Min-Hwei, N., Hui-Cheng, C., Ahmad, J., Yahaya, N.M., Saim, A.B., Idrus, R.B.H. (2014). Cartilage regeneration by chondrogenic induced adult stem cells in osteoarthritic sheep model. *PLoS ONE*. 9(6): 1-13.	40
20	Jaafar, N.M., Clode, P.L., Abbott, L.K. (2014). Microscopy observations of habitable space in biochar for colonization by fungal hyphae from soil. *Journal of Integrative Agriculture*. 13(3): 483-490.	40
20	Yeap, W.-C., Loo, J.M., Wong, Y.C., Kulaveerasingam, H. (2014). Evaluation of suitable reference genes for qRT-PCR gene expression normalization in reproductive, vegetative tissues and during fruit development in oil palm. *Plant Cell, Tissue and Organ Culture*. 116(1): 55-66.	40
20	Samsuri, A.W., Sadegh-Zadeh, F., Seh-Bardan, B.J. (2014). Characterization of biochars produced from oil palm and rice husks and their adsorption capacities for heavy metals. *International Journal of Environmental Science and Technology*. 11(4): 967-976.	40

20	Lani, R., Moghaddam, E., Haghani, A., Chang, L.-Y., AbuBakar, S., Zandi, K. (2014). Tick-borne viruses: A review from the perspective of therapeutic approaches. *Ticks and Tick-borne Diseases*. 5(5): 457-465.	40
20	Han, N.M.M., Latif, M.T., Othman, M., Dominick, D., Mohamad, N., Juahir, H., Tahir, N.M. (2014). Composition of selected heavy metals in road dust from Kuala Lumpur city centre. *Environmental Earth Sciences*. 72(3): 849-859.	40

Penerbitan Pegawai UPM tahun 2014 dalam bidang Sains Pertanian dan Biologi - 761 penerbitan

UPM Officers publications in 2014 in the Field of Agricultural and Biological Sciences - 761 publications

Jadual 26. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2015 Bidang Sains Pertanian dan Biologi

Table 26. Top Twenty Citations of UPM Officers Publications Published in 2015 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Dar, T.A., Uddin, M., Khan, M.M.A., Hakeem, K.R., Jaleel, H. (2015). Jasmonates counter plant stress: A review. *Environmental and Experimental Botany*. 115: 49-57.	106
2	Schutze, M.K., Aketarawong, N., Amornsak, W., Armstrong, K.F., Augustinos, A.A., Barr, N., Bo, W., Bourtzis, K., Boykin, L.M., Cáceres, C., Cameron, S.L., Chapman, T.A., Chinvinijkul, S., Chomič, A., De Meyer, M., Drosopoulou, E., Englezou, A., Ekesi, S., Gariou-Papalexiou, A., Geib, S.M., Hailstones, D., Hasanuzzaman, M., Haymer, D., Hee, A.K.W., Hendrichs, J., Jessup, A., Ji, Q., Khamis, F.M., Krosch, M.N., Leblanc, L., Mahmood, K., Malacrida, A.R., Mavragani-Tsipidou, P., Mwatawala, M., Nishida, R., Ono, H., Reyes, J., Rubinoff, D., San Jose, M., Shelly, T.E., Srikachar, S., Tan, K.H., Thanaphum, S., Haq, I., Vijaysegaran, S., Wee, S.L., Yesmin, F., Zacharopoulou, A., Clarke, A.R. (2015). Synonymization of key pest species within the Bactrocera dorsalis species complex (Diptera: Tephritidae): Taxonomic changes based on a review of 20 years of integrative morphological, molecular, cytogenetic, behavioural and chemoecological data. *Systematic Entomology*. 40(2): 456-471.	104
3	Samaram, S., Mirhosseini, H., Tan, C.P., Ghazali, H.M., Bordbar, S., Serjouie, A. (2015). Optimisation of ultrasound-assisted extraction of oil from papaya seed by response surface methodology: Oil recovery, radical scavenging antioxidant activity, and oxidation stability. *Food Chemistry*. 172: 7-17.	70
4	Keshani, S., Daud, W.R.W., Nourouzi, M.M., Namvar, F., Ghasemi, M. (2015). Spray drying: An overview on wall deposition, process and modeling. *Journal of Food Engineering*. 146: 152-162.	68
5	Youssef, A.M., Pradhan, B., Jebur, M.N., El-Harbi, H.M. (2015). Landslide susceptibility mapping using ensemble bivariate and multivariate statistical models in Fayfa area, Saudi Arabia. *Environmental Earth Sciences*. 73(7): 3745-3761.	60
6	Iqbal, S.Z., Jinap, S., Pirouz, A.A., Ahmad Faizal, A.R. (2015). Aflatoxin M<inf>1</inf> in milk and dairy products, occurrence and recent challenges: A review. *Trends in Food Science and Technology*. 46(1): 110-119.	58

7	Saalah, S., Abdullah, L.C., Aung, M.M., Salleh, M.Z., Awang Biak, D.R., Basri, M., Jusoh, E.R. (2015). Waterborne polyurethane dispersions synthesized from jatropha oil. *Industrial Crops and Products*. 64: 194-200.	52
8	Murugan, K., Samidoss, C.M., Panneerselvam, C., Higuchi, A., Roni, M., Suresh, U., Chandramohan, B., Subramaniam, J., Madhiyazhagan, P., Dinesh, D., Rajaganesh, R., Alarfaj, A.A., Nicoletti, M., Kumar, S., Wei, H., Canale, A., Mehlhorn, H., Benelli, G. (2015). Seaweed-synthesized silver nanoparticles: an eco-friendly tool in the fight against Plasmodium falciparum and its vector Anopheles stephensi?. *Parasitology Research*. 114(11): 4087-4097.	50
9	Ashkani, S., Rafii, M.Y., Shabanimofrad, M., Miah, G., Sahebi, M., Azizi, P., Tanweer, F.A., Akhtar, M.S., Nasehi, A. (2015). Molecular breeding strategy and challenges towards improvement of blast disease resistance in rice crop. *Frontiers in Plant Science*. 6(0): 1-14.	41
10	AL-Oqla, F.M., Sapuan, S.M., Ishak, M.R., Nuraini, A.A. (2015). Predicting the potential of agro waste fibers for sustainable automotive industry using a decision making model. *Computers and Electronics in Agriculture*. 113: 116-127.	40
11	Lim, P.N., Wu, T.Y., Clarke, C., Nik Daud, N.N. (2015). A potential bioconversion of empty fruit bunches into organic fertilizer using Eudrilus eugeniae. *International Journal of Environmental Science and Technology*. 12(8): 2533-2544.	39
11	Raeisi, M., Tajik, H., Aliakbarlu, J., Mirhosseini, S.H., Hosseini, S.M.H. (2015). Effect of carboxymethyl cellulose-based coatings incorporated with Zataria multiflora Boiss. essential oil and grape seed extract on the shelf life of rainbow trout fillets. *LWT - Food Science and Technology*. 64(2): 898-904.	39
12	Muradoglu, F., Gundogdu, M., Ercisli, S., Encu, T., Balta, F., Ze Jaafar, H., Zia-Ul-Haq, M. (2015). Cadmium toxicity affects chlorophyll a and b content, antioxidant enzyme activities and mineral nutrient accumulation in strawberry. *Biological Research*. 48: 1-7.	38
13	Mohamad, N.L., Mustapa Kamal, S.M., Mokhtar, M.N. (2015). Xylitol Biological Production: A Review of Recent Studies. *Food Reviews International*. 31(1): 74-89.	37
14	Azhar, B., Saadun, N., Puan, C.L., Kamarudin, N., Aziz, N., Nurhidayu, S., Fischer, J. (2015). Promoting landscape heterogeneity to improve the biodiversity benefits of certified palm oil production: Evidence from Peninsular Malaysia. *Global Ecology and Conservation*. 3: 553-561.	35
15	Tor, Y.S., Yazan, L.S., Foo, J.B., Wibowo, A., Ismail, N., Cheah, Y.K., Abdullah, R., Ismail, M., Ismail, I.S., Yeap, S.K. (2015). Induction of apoptosis in MCF-7 cells via oxidative stress generation, mitochondria-dependent and caspase-independent pathway by	34

	ethyl acetate extract of Dillenia suffruticosa and its chemical profile. *PLoS ONE*. 10(6): 1-25.	
16	Tripathi, B.M., Kim, M., Tateno, R., Kim, W., Wang, J., Lai-Hoe, A., Ab. Shukor, N.A., Rahim, R.A., Go, R., Adams, J.M. (2015). Soil pH and biome are both key determinants of soil archaeal community structure. *Soil Biology and Biochemistry*. 88: 1-8.	33
17	Karimi, G., Sabran, M.R., Jamaluddin, R., Parvaneh, K., Mohtarrudin, N., Ahmad, Z., Khazaai, H., Khodavandi, A. (2015). The anti-obesity effects of Lactobacillus casei strain Shirota versus Orlistat on high fat diet-induced obese rats. *Food and Nutrition Research*. 59: 1-9.	30
17	Khaliq, G., Muda Mohamed, M.T., Ali, A., Ding, P., Ghazali, H.M. (2015). Effect of gum arabic coating combined with calcium chloride on physico-chemical and qualitative properties of mango (Mangifera indica L.) fruit during low temperature storage. *Scientia Horticulturae*. 190: 187-194.	30
17	Zamiri, R., Ahangar, H.A., Kaushal, A., Zakaria, A., Zamiri, G., Tobaldi, D., Ferreira, J.M.F. (2015). Dielectrical properties of CeO<inf>2</inf> nanoparticles at different temperatures. *PLoS ONE*. 10(4): 1-11.	30
18	Ding, R., Ujang, N., Hamid, H.B., Wu, J. (2015). Complex network theory applied to the growth of Kuala Lumpur's public urban rail transit network. *PLoS ONE*. 10(10): 1-22.	29
18	Chew, S.-C., Tan, C.-P., Long, K., Nyam, K.-L. (2015). In-vitro evaluation of kenaf seed oil in chitosan coated-high methoxyl pectin-alginate microcapsules. *Industrial Crops and Products*. 76: 230-236.	29
18	Jaafar, N.M., Clode, P.L., Abbott, L.K. (2015). Soil Microbial Responses to Biochars Varying in Particle Size, Surface and Pore Properties. *Pedosphere*. 25(5): 770-780.	28
18	Raipuria, M., Bahari, H., Morris, M.J. (2015). Effects of maternal diet and exercise during pregnancy on glucose metabolism in skeletal muscle and fat of weanling rats. *PLoS ONE*. 10(4): 1-14.	28
19	Masood, M., Iqbal, S.Z., Asi, M.R., Malik, N. (2015). Natural occurrence of aflatoxins in dry fruits and edible nuts. *Food Control*. 55: 62-65.	27
19	Leow, S.N., Luu, C.D., Nizam, M.H.H., Mok, P.L., Ruhaslizan, R., Wong, H.S., Halim, W.H.W.A., Ng, M.H., Ruszymah, B.H.I., Chowdhury, S.R., Bastion, M.L.C., Then, K.Y. (2015). Safety and efficacy of human Wharton's Jelly-derived mesenchymal stem cells therapy for retinal degeneration. *PLoS ONE*. 10(6): 1-20.	27
20	Chang, S.K., Ismail, A., Yanagita, T., Mohd Esa, N., Baharuldin, M.T.H. (2015). Antioxidant peptides purified and identified from the oil palm (Elaeis guineensis Jacq.) kernel protein hydrolysate. *Journal of Functional Foods*. 14: 63-75.	26

Penerbitan Pegawai UPM tahun 2015 dalam bidang Sains Pertanian dan Biologi - 799 penerbitan

UPM Officers publications in 2015 in the Field of Agricultural and Biological Sciences - 799 publications

Jadual 27. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2016
Bidang Sains Pertanian dan Biologi
Table 27. Top Twenty Citations of UPM Officers Publications Published in 2016 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Ahmad, P., Rasool, S., Gul, A., Sheikh, S.A., Akram, N.A., Ashraf, M., Kazi, A.M., Gucel, S. (2016). Jasmonates: Multifunctional roles in stress tolerance. *Frontiers in Plant Science*. 7(Jun-16): -.	87
2	Gurr, G.M., Lu, Z., Zheng, X., Xu, H., Zhu, P., Chen, G., Yao, X., Cheng, J., Zhu, Z., Catindig, J.L., Villareal, S., Van Chien, H., Cuong, L.Q., Channoo, C., Chengwattana, N., Lan, L.P., Hai, L.H., Chaiwong, J., Nicol, H.I., Perovic, D.J., Wratten, S.D., Heong, K.L. (2016). Multi-country evidence that crop diversification promotes ecological intensification of agriculture. *Nature Plants*. 2(3): -.	84
3	Onwude, D.I., Hashim, N., Janius, R.B., Nawi, N.M., Abdan, K. (2016). Modeling the Thin-Layer Drying of Fruits and Vegetables: A Review. *Comprehensive Reviews in Food Science and Food Safety*. 15(3): 599-618.	75
4	Tien Bui, D., Ho, T.-C., Pradhan, B., Pham, B.-T., Nhu, V.-H., Revhaug, I. (2016). GIS-based modeling of rainfall-induced landslides using data mining-based functional trees classifier with AdaBoost, Bagging, and MultiBoost ensemble frameworks. *Environmental Earth Sciences*. 75(14): -.	61
5	Aghdam, I.N., Varzandeh, M.H.M., Pradhan, B. (2016). Landslide susceptibility mapping using an ensemble statistical index (Wi) and adaptive neuro-fuzzy inference system (ANFIS) model at Alborz Mountains (Iran). *Environmental Earth Sciences*. 75(7): -.	53
6	Murugan, K., Dinesh, D., Kavithaa, K., Paulpandi, M., Ponraj, T., Alsalhi, M.S., Devanesan, S., Subramaniam, J., Rajaganesh, R., Wei, H., Kumar, S., Nicoletti, M., Benelli, G. (2016). Hydrothermal synthesis of titanium dioxide nanoparticles: mosquitocidal potential and anticancer activity on human breast cancer cells (MCF-7). *Parasitology Research*. 115(3): 1085-1096.	51
7	Kuan, K.B., Othman, R., Rahim, K.A., Shamsuddin, Z.H. (2016). Plant growth-promoting rhizobacteria inoculation to enhance vegetative growth, nitrogen fixation and nitrogen remobilisation of maize under greenhouse conditions. *PLoS ONE*. 11(3): -.	50
8	Panneerselvam, C., Murugan, K., Roni, M., Aziz, A.T., Suresh, U., Rajaganesh, R., Madhiyazhagan, P., Subramaniam, J., Dinesh, D., Nicoletti, M., Higuchi, A., Alarfaj, A.A., Munusamy, M.A., Kumar, S.,	46

	Desneux, N., Benelli, G. (2016). Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of Pteridium aquilinum leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. *Parasitology Research*. 115(3): 997-1013.	
9	Gothai, S., Ganesan, P., Park, S.-Y., Fakurazi, S., Choi, D.-K., Arulselvan, P. (2016). Natural phyto-bioactive compounds for the treatment of type 2 diabetes: Inflammation as a target. *Nutrients*. 8(8): -.	40
9	Ozyigit, I.I., Filiz, E., Vatansever, R., Kurtoglu, K.Y., Koc, I., Öztürk, M.X., Anjum, N.A. (2016). Identification and comparative analysis of H<inf>2</inf>O<inf>2</inf>-scavenging enzymes (ascorbate peroxidase and glutathione peroxidase) in selected plants employing bioinformatics approaches. *Frontiers in Plant Science*. 7(Mar-16): -.	40
9	Hong, H., Pradhan, B., Jebur, M.N., Bui, D.T., Xu, C., Akgun, A. (2016). Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. *Environmental Earth Sciences*. 75(1): 1-14.	40
10	Kazemi, M., Karim, R., Mirhosseini, H., Abdul Hamid, A. (2016). Optimization of pulsed ultrasound-assisted technique for extraction of phenolics from pomegranate peel of Malas variety: Punicalagin and hydroxybenzoic acids. *Food Chemistry*. 206: 156-166.	39
11	Begum, H., Yusoff, F.M.D., Banerjee, S., Khatoon, H., Shariff, M. (2016). Availability and Utilization of Pigments from Microalgae. *Critical Reviews in Food Science and Nutrition*. 56(13): 2209-2222.	38
12	Onwude, D.I., Hashim, N., Chen, G. (2016). Recent advances of novel thermal combined hot air drying of agricultural crops. *Trends in Food Science and Technology*. 57: 132-145.	37
12	Sanyang, M.L., Sapuan, S.M., Jawaid, M., Ishak, M.R., Sahari, J. (2016). Effect of plasticizer type and concentration on physical properties of biodegradable films based on sugar palm (arenga pinnata) starch for food packaging. *Journal of Food Science and Technology*. 53(1): 326-336.	37
13	Boo, L., Ho, W.Y., Ali, N.M., Yeap, S.K., Ky, H., Chan, K.G., Yin, W.F., Satharasinghe, D.A., Liew, W.C., Tan, S.W., Ong, H.K., Cheong, S.K. (2016). MiRNA transcriptome profiling of spheroid-enriched cells with cancer stem cell properties in human breast MCF-7 cell line. *International Journal of Biological Sciences*. 12(4): 427-445.	36
14	Swamy, M.K., Sinniah, U.R. (2016). Patchouli (Pogostemon cablin Benth.): Botany, agrotechnology and biotechnological aspects. *Industrial Crops and Products*. 87: 161-176.	34
15	Pandeya, B., Buytaert, W., Zulkafli, Z., Karpouzoglou, T., Mao, F., Hannah, D.M. (2016). A comparative analysis of ecosystem services	33

	valuation approaches for application at the local scale and in data scarce regions. *Ecosystem Services*. 22: 250-259.	
16	Thung, T.Y., Mahyudin, N.A., Basri, D.F., Wan Mohamed Radzi, C.W.J., Nakaguchi, Y., Nishibuchi, M., Radu, S. (2016). Prevalence and antibiotic resistance of Salmonella Enteritidis and Salmonella Typhimurium in raw chicken meat at retail markets in Malaysia. *Poultry Science*. 95(8): 1888-1893.	32
16	Tamnak, S., Mirhosseini, H., Tan, C.P., Ghazali, H.M., Muhammad, K. (2016). Physicochemical properties, rheological behavior and morphology of pectin-pea protein isolate mixtures and conjugates in aqueous system and oil in water emulsion. *Food Hydrocolloids*. 56: 405-416.	32
17	Sarah, S.A., Faradalila, W.N., Salwani, M.S., Amin, I., Karsani, S.A., Sazili, A.Q. (2016). LC-QTOF-MS identification of porcine-specific peptide in heat treated pork identifies candidate markers for meat species determination. *Food Chemistry*. 199: 157-164.	28
17	Soo, K.-M., Khalid, B., Ching, S.-M., Chee, H.-Y. (2016). Meta-analysis of dengue severity during infection by different dengue virus serotypes in primary and secondary infections. *PLoS ONE*. 11(5): -.	28
18	Chew, S.-C., Tan, C.-P., Long, K., Nyam, K.-L. (2016). Effect of chemical refining on the quality of kenaf (hibiscus cannabinus) seed oil. *Industrial Crops and Products*. 89: 59-65.	27
18	Latef, A.A.H.A., Hashem, A., Rasool, S., Abd-Allah, E.F., Alqarawi, A.A., Egamberdieva, D., Jan, S., Anjum, N.A., Ahmad, P. (2016). Arbuscular mycorrhizal symbiosis and abiotic stress in plants: A review. *Journal of Plant Biology*. 59(5): 407-426.	27
18	Cheong, A.M., Tan, K.W., Tan, C.P., Nyam, K.L. (2016). Kenaf (Hibiscus cannabinus L.) seed oil-in-water Pickering nanoemulsions stabilised by mixture of sodium caseinate, Tween 20 and β-cyclodextrin. *Food Hydrocolloids*. 52: 934-941.	27
18	Yang, T.Y., Dehghantanha, A., Choo, K.-K.R., Muda, Z. (2016). Windows Instant Messaging App Forensics: Facebook and Skype as Case Studies. *PloS one*. 11(3): 0-.	27
18	Youssef, A.M., Pradhan, B., Sefry, S.A. (2016). Flash flood susceptibility assessment in Jeddah city (Kingdom of Saudi Arabia) using bivariate and multivariate statistical models. *Environmental Earth Sciences*. 75(1): 1-16.	27
19	Iqbal, S.Z., Asi, M.R., Hanif, U., Zuber, M., Jinap, S. (2016). The presence of aflatoxins and ochratoxin A in rice and rice products; And evaluation of dietary intake. *Food Chemistry*. 210: 135-140.	26
19	Manz, B., Buytaert, W., Zulkafli, Z., Lavado, W., Willems, B., Robles, L.A., Rodríguez-Sánchez, J.-P. (2016). High-resolution satellite-gauge merged precipitation climatologies of the tropical andes. *Journal of Geophysical Research*. 121(3): 1190-1207.	26

20	Mahmood, I., Imadi, S.R., Shazadi, K., Gul, A., Hakeem, K.R. (2016). Effects of pesticides on environment. *Plant, Soil and Microbes: Volume 1: Implications in Crop Science*. : 253-269.	24
20	Forghani, B., Zarei, M., Ebrahimpour, A., Philip, R., Bakar, J., Abdul Hamid, A., Saari, N. (2016). Purification and characterization of angiotensin converting enzyme-inhibitory peptides derived from Stichopus horrens: Stability study against the ACE and inhibition kinetics. *Journal of Functional Foods*. 20: 276-290.	24

Penerbitan Pegawai UPM tahun 2016 dalam bidang Sains Pertanian dan Biologi - 704 penerbitan

UPM Officers publications in 2016 in the Field of Agricultural and Biological Sciences - 704 publications

Jadual 28. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2017
Bidang Sains Pertanian dan Biologi
Table 28. Top Twenty Citations of UPM Officers Publications Published in 2017 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Tien Bui, D., Bui, Q.-T., Nguyen, Q.-P., Pradhan, B., Nampak, H., Trinh, P.T. (2017). A hybrid artificial intelligence approach using GIS-based neural-fuzzy inference system and particle swarm optimization for forest fire susceptibility modeling at a tropical area. *Agricultural and Forest Meteorology*. 233: 32-44.	57
2	Roohinejad, S., Koubaa, M., Barba, F.J., Saljoughian, S., Amid, M., Greiner, R. (2017). Application of seaweeds to develop new food products with enhanced shelf-life, quality and health-related beneficial properties. *Food Research International*. 99: 1066-1083.	51
3	Benelli, G., Maggi, F., Romano, D., Stefanini, C., Vaseeharan, B., Kumar, S., Higuchi, A., Alarfaj, A.A., Mehlhorn, H., Canale, A. (2017). Nanoparticles as effective acaricides against ticks—A review. *Ticks and Tick-borne Diseases*. 8(6): 821-826.	36
4	Ho, C.W., Lazim, A.M., Fazry, S., Zaki, U.K.H.H., Lim, S.J. (2017). Varieties, production, composition and health benefits of vinegars: A review. *Food Chemistry*. 221: 1621-1630.	35
4	Hudson, L.N., Newbold, T., Contu, S., Hill, S.L.L., Lysenko, I., De Palma, A., Phillips, H.R.P., Alhusseini, T.I., Bedford, F.E., Bennett, D.J., Booth, H., Burton, V.J., Chng, C.W.T., Choimes, A., Correia, D.L.P., Day, J., Echeverría-Londoño, S., Emerson, S.R., Gao, D., Garon, M., Harrison, M.L.K., Ingram, D.J., Jung, M., Kemp, V., Kirkpatrick, L., Martin, C.D., Pan, Y., Pask-Hale, G.D., Pynegar, E.L., Robinson, A.N., Sanchez-Ortiz, K., Senior, R.A., Simmons, B.I., White, H.J., Zhang, H., Aben, J., Abrahamczyk, S., Adum, G.B., Aguilar-Barquero, V., Aizen, M.A., Albertos, B., Alcala, E.L., del Mar Alguacil, M., Alignier, A., Ancrenaz, M., Andersen, A.N., Arbeláez-Cortés, E., Armbrecht, I., Arroyo-Rodríguez, V., Aumann, T., Axmacher, J.C., Azhar, B., Azpiroz, A.B., Baeten, L., Bakayoko, A., Báldi, A., Banks, J.E., Baral, S.K., Barlow, J., Barratt, B.I.P., Barrico, L., Bartolommei, P., Barton, D.M., Basset, Y., Batáry, P., Bates, A.J., Baur, B., Bayne, E.M., Beja, P., Benedick, S., Berg, Å., Bernard, H., Berry, N.J., Bhatt, D., Bicknell, J.E., Bihn, J.H., Blake, R.J., Bobo, K.S., Bóçon, R., Boekhout, T., Böhning-Gaese, K., Bonham, K.J., Borges, P.A.V., Borges, S.H., Boutin, C., Bouyer, J., Bragagnolo, C., Brandt, J.S., Brearley, F.Q., Brito, I., Bros, V., Brunet, J., Buczkowski,	35

	G., Buddle, C.M., Bugter, R., Buscardo, E., Buse, J., Cabra-García, J., Cáceres, N.C., Cagle, N.L., Calviño-Cancela, M., Cameron, S.A., Cancello, E.M., Caparrós, R., Cardoso, P., Carpenter, D., Carrijo, T.F., Carvalho, A.L., Cassano, C.R., Castro, H., Castro-Luna, A.A., Rolando, C.B., Cerezo, A., Chapman, K.A., Chauvat, M., Christensen, M., Clarke, F.M., Cleary, D.F.R., Colombo, G., Connop, S.P., Craig, M.D., Cruz-López, L., Cunningham, S.A., D'Aniello, B., D'Cruze, N., da Silva, P.G., Dallimer, M., Danquah, E., Darvill, B., Dauber, J., Davis, A.L.V., Dawson, J., de Sassi, C., de Thoisy, B., Deheuvels, O., Dejean, A., Devineau, J.-L., Diekötter, T., Dolia, J.V., Domínguez, E., Dominguez-Haydar, Y., Dorn, S., Draper, I., Dreber, N., Dumont, B., Dures, S.G., Dynesius, M., Edenius, L., Eggleton, P., Eigenbrod, F., Elek, Z., Entling, M.H., Esler, K.J., de Lima, R.F., Faruk, A., Farwig, N., Fayle, T.M., Felicioli, A., Felton, A.M., Fensham, R.J., Fernandez, I.C., Ferreira, C.C., Ficetola, G.F., Fiera, C., Filgueiras, B.K.C., Fırıncıoğlu, H.K., Flaspohler, D., Floren, A., Fonte, S.J., Fournier, A., Fowler, R.E., Franzén, M., Fraser, L.H., Fredriksson, G.M., Freire, G.B., Frizzo, T.L.M., Fukuda, D., Furlani, D., Gaigher, R., Ganzhorn, J.U., García, K.P., Garcia-R, J.C., Garden, J.G., Garilleti, R., Ge, B.-M., Gendreau-Berthiaume, B., Gerard, P.J., Gheler-Costa, C., Gilbert, B., Giordani, P., Giordano, S., Golodets, C., Gomes, L.G.L., Gould, R.K., Goulson, D., Gove, A.D., Granjon, L., Grass, I., Gray, C.L., Grogan, J., Gu, W., Guardiola, M., Gunawardene, N.R., Gutierrez, A.G., Gutiérrez-Lamus, D.L., Haarmeyer, D.H., Hanley, M.E., Hanson, T., Hashim, N.R., Hassan, S.N., Hatfield, R.G., Hawes, J.E., Hayward, M.W., Hébert, C., Helden, A.J., Henden, J.-A., Henschel, P., Hernández, L., Herrera, J.P., Herrmann, F., Herzog, F., Higuera-Diaz, D., Hilje, B., Höfer, H., Hoffmann, A., Horgan, F.G., Hornung, E., Horváth, R., Hylander, K., Isaacs-Cubides, P., Ishida, H., Ishitani, M., Jacobs, C.T., Jaramillo, V.J., Jauker, B., Hernández, F.J., Johnson, M.F., Jolli, V., Jonsell, M., Juliani, S.N., Jung, T.S., Kapoor, V., Kappes, H., Kati, V., Katovai, E., Kellner, K., Kessler, M., Kirby, K.R., Kittle, A.M., Knight, M.E., Knop, E., Kohler, F., Koivula, M., Kolb, A., Kone, M., Kőrösi, Á., Krauss, J., Kumar, A., Kumar, R., Kurz, D.J., Kutt, A.S., Lachat, T., Lantschner, V., Lara, F., Lasky, J.R., Latta, S.C., Laurance, W.F., Lavelle, P., Le Féon, V., LeBuhn, G., Légaré, J.-P., Lehouck, V., Lencinas, M.V., Lentini, P.E., Letcher, S.G., Li, Q., Litchwark, S.A., Littlewood, N.A., Liu, Y., Lo-Man-Hung, N., López-Quintero, C.A., Louhaichi, M., Lövei, G.L., Lucas-Borja, M.E., Luja, V.H., Luskin, M.S., MacSwiney G, M.C., Maeto, K., Magura, T., Mallari, N.A., Malone, L.A., Malonza, P.K., Malumbres-Olarte, J., Mandujano, S., Måren, I.E., Marin-Spiotta, E., Marsh, C.J., Marshall, E.J.P., Martínez, E., Martínez Pastur, G., Moreno Mateos, D., Mayfield, M.M., Mazimpaka, V., McCarthy, J.L., McCarthy, K.P., McFrederick, Q.S.,	

	McNamara, S., Medina, N.G., Medina, R., Mena, J.L., Mico, E., Mikusinski, G., Milder, J.C., Miller, J.R., Miranda-Esquivel, D.R., Moir, M.L., Morales, C.L., Muchane, M.N., Muchane, M., Mudri-Stojnic, S., Munira, A.N., Muoñz-Alonso, A., Munyekenye, B.F., Naidoo, R., Naithani, A., Nakagawa, M., Nakamura, A., Nakashima, Y., Naoe, S., Nates-Parra, G., Navarrete Gutierrez, D.A., Navarro-Iriarte, L., Ndang'ang'a, P.K., Neuschulz, E.L., Ngai, J.T., Nicolas, V., Nilsson, S.G., Noreika, N., Norfolk, O., Noriega, J.A., Norton, D.A., Nöske, N.M., Nowakowski, A.J., Numa, C., O'Dea, N., O'Farrell, P.J., Oduro, W., Oertli, S., Ofori-Boateng, C., Oke, C.O., Oostra, V., Osgathorpe, L.M., Otavo, S.E., Page, N.V., Paritsis, J., Parra-H, A., Parry, L., Pe'er, G., Pearman, P.B., Pelegrin, N., Pélissier, R., Peres, C.A., Peri, P.L., Persson, A.S., Petanidou, T., Peters, M.K., Pethiyagoda, R.S., Phalan, B., Philips, T.K., Pillsbury, F.C., Pincheira-Ulbrich, J., Pineda, E., Pino, J., Pizarro-Araya, J., Plumptre, A.J., Poggio, S.L., Politi, N., Pons, P., Poveda, K., Power, E.F., Presley, S.J., Proença, V., Quaranta, M., Quintero, C., Rader, R., Ramesh, B.R., Ramirez-Pinilla, M.P., Ranganathan, J., Rasmussen, C., Redpath-Downing, N.A., Reid, J.L., Reis, Y.T., Rey Benayas, J.M., Rey-Velasco, J.C., Reynolds, C., Ribeiro, D.B., Richards, M.H., Richardson, B.A., Richardson, M.J., Ríos, R.M., Robinson, R., Robles, C.A., Römbke, J., Romero-Duque, L.P., Rös, M., Rosselli, L., Rossiter, S.J., Roth, D.S., Roulston, T.H., Rousseau, L., Rubio, A.V., Ruel, J.-C., Sadler, J.P., Sáfián, S., Saldaña-Vázquez, R.A., Sam, K., Samnegård, U., Santana, J., Santos, X., Savage, J., Schellhorn, N.A., Schilthuizen, M., Schmiedel, U., Schmitt, C.B., Schon, N.L., Schüepp, C., Schumann, K., Schweiger, O., Scott, D.M., Scott, K.A., Sedlock, J.L., Seefeldt, S.S., Shahabuddin, G., Shannon, G., Sheil, D., Sheldon, F.H., Shochat, E., Siebert, S.J., Silva, F.A.B., Simonetti, J.A., Slade, E.M., Smith, J., Smith-Pardo, A.H., Sodhi, N.S., Somarriba, E.J., Sosa, R.A., Soto Quiroga, G., St-Laurent, M.-H., Starzomski, B.M., Stefanescu, C., Steffan-Dewenter, I., Stouffer, P.C., Stout, J.C., Strauch, A.M., Struebig, M.J., Su, Z., Suarez-Rubio, M., Sugiura, S., Summerville, K.S., Sung, Y.-H., Sutrisno, H., Svenning, J.-C., Teder, T., Threlfall, C.G., Tiitsaar, A., Todd, J.H., Tonietto, R.K., Torre, I., Tóthmérész, B., Tscharntke, T., Turner, E.C., Tylianakis, J.M., Uehara-Prado, M., Urbina-Cardona, N., Vallan, D., Vanbergen, A.J., Vasconcelos, H.L., Vassilev, K., Verboven, H.A.F., Verdasca, M.J., Verdú, J.R., Vergara, C.H., Vergara, P.M., Verhulst, J., Virgilio, M., Vu, L.V., Waite, E.M., Walker, T.R., Wang, H.-F., Wang, Y., Watling, J.I., Weller, B., Wells, K., Westphal, C., Wiafe, E.D., Williams, C.D., Willig, M.R., Woinarski, J.C.Z., Wolf, J.H.D., Wolters, V., Woodcock, B.A., Wu, J., Wunderle, J.M., Yamaura, Y., Yoshikura, S., Yu, D.W., Zaitsev, A.S., Zeidler, J., Zou, F., Collen, B., Ewers, R.M., Mace, G.M., Purves, D.W.,	

	Scharlemann, J.P.W., Purvis, A. (2017). The database of the PREDICTS (Projecting Responses of Ecological Diversity In Changing Terrestrial Systems) project. *Ecology and Evolution*. 7(1): 145-188.	

Penerbitan Pegawai UPM tahun 2017 dalam bidang Sains Pertanian dan Biologi - 832 penerbitan

UPM Officers publications in 2017 in the Field of Agricultural and Biological Sciences - 832 publications

Jadual 29. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2018
Bidang Sains Pertanian dan Biologi
Table 29. Top Twenty Citations of UPM Officers Publications Published in 2018 in the Field of Agricultural and Biological Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Watson, A., Ghosh, S., Williams, M.J., Cuddy, W.S., Simmonds, J., Rey, M.-D., Asyraf Md Hatta, M., Hinchliffe, A., Steed, A., Reynolds, D., Adamski, N.M., Breakspear, A., Korolev, A., Rayner, T., Dixon, L.E., Riaz, A., Martin, W., Ryan, M., Edwards, D., Batley, J., Raman, H., Carter, J., Rogers, C., Domoney, C., Moore, G., Harwood, W., Nicholson, P., Dieters, M.J., Delacy, I.H., Zhou, J., Uauy, C., Boden, S.A., Park, R.F., Wulff, B.B.H., Hickey, L.T. (2018). Speed breeding is a powerful tool to accelerate crop research and breeding. *Nature Plants*. 4(1): 23-29.	78
2	Granato, D., Shahidi, F., Wrolstad, R., Kilmartin, P., Melton, L.D., Hidalgo, F.J., Miyashita, K., Camp, J.V., Alasalvar, C., Ismail, A.B., Elmore, S., Birch, G.G., Charalampopoulos, D., Astley, S.B., Pegg, R., Zhou, P., Finglas, P. (2018). Antioxidant activity, total phenolics and flavonoids contents: Should we ban in vitro screening methods?. *Food Chemistry*. 264: 471-475.	60
3	Maryam Adilah, Z.A., Jamilah, B., Nur Hanani, Z.A. (2018). Functional and antioxidant properties of protein-based films incorporated with mango kernel extract for active packaging. *Food Hydrocolloids*. 74: 207-218.	40
4	Shamshiri, R.R., Kalantari, F., Ting, K.C., Thorp, K.R., Hameed, I.A., Weltzien, C., Ahmad, D., Shad, Z. (2018). Advances in greenhouse automation and controlled environment agriculture: A transition to plant factories and urban agriculture. *International Journal of Agricultural and Biological Engineering*. 11(1): 1-22.	20
5	Lim, K.C., Yusoff, F.M., Shariff, M., Kamarudin, M.S. (2018). Astaxanthin as feed supplement in aquatic animals. *Reviews in Aquaculture*. 10(3): 738-773.	17
5	Amal, M.N.A., Koh, C.B., Nurliyana, M., Suhaiba, M., Nor-Amalina, Z., Santha, S., Diyana-Nadhirah, K.P., Yusof, M.T., Ina-Salwany, M.Y., Zamri-Saad, M. (2018). A case of natural co-infection of Tilapia Lake Virus and Aeromonas veronii in a Malaysian red hybrid tilapia (Oreochromis niloticus × O. mossambicus) farm experiencing high mortality. *Aquaculture*. 485: 12-16.	17
6	Fazilah, N.F., Ariff, A.B., Khayat, M.E., Rios-Solis, L., Halim, M. (2018). Influence of probiotics, prebiotics, synbiotics and bioactive	16

	phytochemicals on the formulation of functional yogurt. *Journal of Functional Foods*. 48: 387-399.	
7	Adilah, A.N., Jamilah, B., Noranizan, M.A., Hanani, Z.A.N. (2018). Utilization of mango peel extracts on the biodegradable films for active packaging. *Food Packaging and Shelf Life*. 16: 1-7.	15
7	Al-Taey, D.K.A., Alazawi, S.S.M., Al-Shareefi, M.J.H., Al-Tawaha, A. (2018). Effect of saline water, NPK and organic fertilizers on soil properties and growth, antioxidant enzymes in leaves and yield of lettuce (Lactuca sativa var. Parris Island). *Research on Crops*. 19(3): 441-449.	15
8	Iqbal, S.Z., Malik, S., Asi, M.R., Selamat, J., Malik, N. (2018). Natural occurrence of patulin in different fruits, juices and smoothies and evaluation of dietary intake in Punjab, Pakistan. *Food Control*. 84: 370-374.	13
8	Dauda, A.B., Romano, N., Ebrahimi, M., Teh, J.C., Ajadi, A., Chong, C.M., Karim, M., Natrah, I., Kamarudin, M.S. (2018). Influence of carbon/nitrogen ratios on biofloc production and biochemical composition and subsequent effects on the growth, physiological status and disease resistance of African catfish (Clarias gariepinus) cultured in glycerol-based biofloc systems. *Aquaculture*. 483: 120-130.	13
8	Suresh, U., Murugan, K., Panneerselvam, C., Rajaganesh, R., Roni, M., Aziz, A.T., Naji Al-Aoh, H.A., Trivedi, S., Rehman, H., Kumar, S., Higuchi, A., Canale, A., Benelli, G. (2018). Suaeda maritima-based herbal coils and green nanoparticles as potential biopesticides against the dengue vector Aedes aegypti and the tobacco cutworm Spodoptera litura. *Physiological and Molecular Plant Pathology*. 101: 225-235.	13
9	Golhani, K., Balasundram, S.K., Vadamalai, G., Pradhan, B. (2018). A review of neural networks in plant disease detection using hyperspectral data. *Information Processing in Agriculture*. 5(3): 354-371.	12
9	Ranneh, Y., Ali, F., Zarei, M., Akim, A.M., Hamid, H.A., Khazaai, H. (2018). Malaysian stingless bee and Tualang honeys: A comparative characterization of total antioxidant capacity and phenolic profile using liquid chromatography-mass spectrometry. *LWT - Food Science and Technology*. 89: 1-9.	12
10	Lee, G.L.Y., Ahmad, S.A., Yasid, N.A., Zulkharnain, A., Convey, P., Wan Johari, W.L., Alias, S.A., Gonzalez-Rocha, G., Shukor, M.Y. (2018). Biodegradation of phenol by cold-adapted bacteria from Antarctic soils. *Polar Biology*. 41(3): 553-562.	11
10	Cheok, C.Y., Mohd Adzahan, N., Abdul Rahman, R., Zainal Abedin, N.H., Hussain, N., Sulaiman, R., Chong, G.H. (2018). Current trends of tropical fruit waste utilization. *Critical Reviews in Food Science and Nutrition*. 58(3): 335-361.	11

10	Ali, M.H., Suleiman, N. (2018). Eleven shades of food integrity: A halal supply chain perspective. *Trends in Food Science and Technology*. 71: 216-224.	11
10	Murugan, K., Roni, M., Panneerselvam, C., Aziz, A.T., Suresh, U., Rajaganesh, R., Aruliah, R., Mahyoub, J.A., Trivedi, S., Rehman, H., Naji Al-Aoh, H.A., Kumar, S., Higuchi, A., Vaseeharan, B., Wei, H., Senthil-Nathan, S., Canale, A., Benelli, G. (2018). Sargassum wightii-synthesized ZnO nanoparticles reduce the fitness and reproduction of the malaria vector Anopheles stephensi and cotton bollworm Helicoverpa armigera. *Physiological and Molecular Plant Pathology*. 101: 202-213.	11
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SAINS ALAM SEKITAR

ENVIRONMENTAL SCIENCES

Jadual 30. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2009-2018 Bidang Sains Alam Sekitar

Table 30. Top Twenty Citations of UPM Officers Publications Published in 2009-2018 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2009). Review of technologies for oil and gas produced water treatment. *Journal of Hazardous Materials*. 170(43526): 530-551.	900
2	Salleh, M.A.M., Mahmoud, D.K., Karim, W.A.W.A., Idris, A. (2011). Cationic and anionic dye adsorption by agricultural solid wastes: A comprehensive review. *Desalination*. 280(43525): 1-13.	631
3	Lee, K.M., Lai, C.W., Ngai, K.S., Juan, J.C. (2016). Recent developments of zinc oxide based photocatalyst in water treatment technology: A review. *Water Research*. 88: 428-448.	588
4	Pourghasemi, H.R., Pradhan, B., Gokceoglu, C. (2012). Application of fuzzy logic and analytical hierarchy process (AHP) to landslide susceptibility mapping at Haraz watershed, Iran. *Natural Hazards*. 63(2): 965-996.	322
5	Short, F.T., Polidoro, B., Livingstone, S.R., Carpenter, K.E., Bandeira, S., Bujang, J.S., Calumpong, H.P., Carruthers, T.J.B., Coles, R.G., Dennison, W.C., Erftemeijer, P.L.A., Fortes, M.D., Freeman, A.S., Jagtap, T.G., Kamal, A.H.M., Kendrick, G.A., Judson Kenworthy, W., La Nafie, Y.A., Nasution, I.M., Orth, R.J., Prathep, A., Sanciangco, J.C., Tussenbroek, B.V., Vergara, S.G., Waycott, M., Zieman, J.C. (2011). Extinction risk assessment of the world's seagrass species. *Biological Conservation*. 144(7): 1961-1971.	311
6	Harun, R., Danquah, M.K., Forde, G.M. (2010). Microalgal biomass as a fermentation feedstock for bioethanol production. *Journal of Chemical Technology and Biotechnology*. 85(2): 199-203.	295
7	Devkota, K.C., Regmi, A.D., Pourghasemi, H.R., Yoshida, K., Pradhan, B., Ryu, I.C., Dhital, M.R., Althuwaynee, O.F. (2013). Landslide susceptibility mapping using certainty factor, index of entropy and logistic regression models in GIS and their comparison at Mugling-Narayanghat road section in Nepal Himalaya. *Natural Hazards*. 65(1): 135-165.	253
8	Al-Oqla, F.M., Sapuan, S.M. (2014). Natural fiber reinforced polymer composites in industrial applications: Feasibility of date palm fibers for sustainable automotive industry. *Journal of Cleaner Production*. 66: 347-354.	240

9	Jonoobi, M., Harun, J., Shakeri, A., Misra, M., Oksmand, K. (2009). Chemical composition, crystallinity, and thermal degradation of bleached and unbleached kenaf bast (Hibiscus cannabinus) pulp and nanofibers. *BioResources*. 4(2): 626-639.	234
10	Ogata, Y., Takada, H., Mizukawa, K., Hirai, H., Iwasa, S., Endo, S., Mato, Y., Saha, M., Okuda, K., Nakashima, A., Murakami, M., Zurcher, N., Booyatumanondo, R., Zakaria, M.P., Dung, L.Q., Gordon, M., Miguez, C., Suzuki, S., Moore, C., Karapanagioti, H.K., Weerts, S., McClurg, T., Burres, E., Smith, W., Velkenburg, M.V., Lang, J.S., Lang, R.C., Laursen, D., Danner, B., Stewardson, N., Thompson, R.C. (2009). International Pellet Watch: Global monitoring of persistent organic pollutants (POPs) in coastal waters. 1. Initial phase data on PCBs, DDTs, and HCHs. *Marine Pollution Bulletin*. 58(10): 1437-1446.	230
11	Berardi, U., GhaffarianHoseini, A., GhaffarianHoseini, A. (2014). State-of-the-art analysis of the environmental benefits of green roofs. *Applied Energy*. 115: 411-428.	206
12	Tehrany, M.S., Pradhan, B., Jebur, M.N. (2014). Flood susceptibility mapping using a novel ensemble weights-of-evidence and support vector machine models in GIS. *Journal of Hydrology*. 512: 332-343.	202
13	Mahmoud, D.K., Salleh, M.A.M., Karim, W.A.W.A., Idris, A., Abidin, Z.Z. (2012). Batch adsorption of basic dye using acid treated kenaf fibre char: Equilibrium, kinetic and thermodynamic studies. *Chemical Engineering Journal*. 0: 449-457.	189
14	Manaf, L.A., Samah, M.A.A., Zukki, N.I.M. (2009). Municipal solid waste management in Malaysia: Practices and challenges. *Waste Management*. 29(11): 2902-2906.	186
15	Tehrany, M.S., Pradhan, B., Jebur, M.N. (2013). Spatial prediction of flood susceptible areas using rule based decision tree (DT) and a novel ensemble bivariate and multivariate statistical models in GIS. *Journal of Hydrology*. 504: 69-79.	181
16	Aris, A.Z., Shamsuddin, A.S., Praveena, S.M. (2014). Occurrence of 17α-ethynylestradiol (EE2) in the environment and effect on exposed biota: A review. *Environment International*. 69: 104-119.	169
17	Juan, J.C., Kartika, D.A., Wu, T.Y., Hin, T.Y.Y. (2011). Biodiesel production from jatropha oil by catalytic and non-catalytic approaches: An overview. *Bioresource Technology*. 102(2): 452-460.	168
18	Taufiq-Yap, Y.H., Lee, H.V., Hussein, M.Z., Yunus, R. (2011). Calcium-based mixed oxide catalysts for methanolysis of Jatropha curcas oil to biodiesel. *Biomass and Bioenergy*. 35(2): 827-834.	161
18	Juahir, H., Zain, S.M., Yusoff, M.K., Hanidza, T.I.T., Armi, A.S.M., Toriman, M.E., Mokhtar, M. (2011). Spatial water quality assessment of Langat River Basin (Malaysia) using environmetric techniques. *Environmental Monitoring and Assessment*. 173(43556): 625-641.	161

19	Aziz, M.A.A., Jalil, A.A., Triwahyono, S., Mukti, R.R., Taufiq-Yap, Y.H., Sazegar, M.R. (2014). Highly active Ni-promoted mesostructured silica nanoparticles for CO<inf>2</inf> methanation. *Applied Catalysis B: Environmental*. 147: 359-368.	160
19	Hyde, K.D., Nilsson, R.H., Alias, S.A., Ariyawansa, H.A., Blair, J.E., Cai, L., de Cock, A.W.A.M., Dissanayake, A.J., Glockling, S.L., Goonasekara, I.D., Gorczak, M., Hahn, M., Jayawardena, R.S., van Kan, J.A.L., Laurence, M.H., Lévesque, C.A., Li, X., Liu, J.-K., Maharachchikumbura, S.S.N., Manamgoda, D.S., Martin, F.N., McKenzie, E.H.C., McTaggart, A.R., Mortimer, P.E., Nair, P.V.R., Pawłowska, J., Rintoul, T.L., Shivas, R.G., Spies, C.F.J., Summerell, B.A., Taylor, P.W.J., Terhem, R.B., Udayanga, D., Vaghefi, N., Walther, G., Wilk, M., Wrzosek, M., Xu, J.-C., Yan, J.Y., Zhou, N. (2014). One stop shop: backbones trees for important phytopathogenic genera: I (2014). *Fungal Diversity*. 67(1): 21-125.	160
20	Sidique, S.F., Lupi, F., Joshi, S.V. (2010). The effects of behavior and attitudes on drop-off recycling activities. *Resources, Conservation and Recycling*. 54(3): 163-170.	157

Penerbitan Pegawai UPM tahun 2009-2018 dalam bidang Sains Alam Sekitar - 3,675 penerbitan

UPM Officers publications in 2009-2018 in the Field of Environmental Sciences - 3,675 publications

Jadual 31. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2009 Bidang Sains Alam Sekitar

Table 31. Top Twenty Citations of UPM Officers Publications Published in 2009 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Fakhru'l-Razi, A., Pendashteh, A., Abdullah, L.C., Biak, D.R.A., Madaeni, S.S., Abidin, Z.Z. (2009). Review of technologies for oil and gas produced water treatment. *Journal of Hazardous Materials*. 170(2-Mar): 530-551.	900
2	Jonoobi, M., Harun, J., Shakeri, A., Misra, M., Oksmand, K. (2009). Chemical composition, crystallinity, and thermal degradation of bleached and unbleached kenaf bast (Hibiscus cannabinus) pulp and nanofibers. *BioResources*. 4(2): 626-639.	234
3	Ogata, Y., Takada, H., Mizukawa, K., Hirai, H., Iwasa, S., Endo, S., Mato, Y., Saha, M., Okuda, K., Nakashima, A., Murakami, M., Zurcher, N., Booyatumanondo, R., Zakaria, M.P., Dung, L.Q., Gordon, M., Miguez, C., Suzuki, S., Moore, C., Karapanagioti, H.K., Weerts, S., McClurg, T., Burres, E., Smith, W., Velkenburg, M.V., Lang, J.S., Lang, R.C., Laursen, D., Danner, B., Stewardson, N., Thompson, R.C. (2009). International Pellet Watch: Global monitoring of persistent organic pollutants (POPs) in coastal waters. 1. Initial phase data on PCBs, DDTs, and HCHs. *Marine Pollution Bulletin*. 58(10): 1437-1446.	230
4	Manaf, L.A., Samah, M.A.A., Zukki, N.I.M. (2009). Municipal solid waste management in Malaysia: Practices and challenges. *Waste Management*. 29(11): 2902-2906.	186
5	Danafar, F., Fakhru'l-Razi, A., Salleh, M.A.M., Biak, D.R.A. (2009). Fluidized bed catalytic chemical vapor deposition synthesis of carbon nanotubes-A review. *Chemical Engineering Journal*. 155(1-Feb): 37-48.	124
6	Zainal, Z., Hui, L.K., Hussein, M.Z., Abdullah, A.H., Hamadneh, I.(M.K.) R. (2009). Characterization of TiO2-Chitosan/Glass photocatalyst for the removal of a monoazo dye via photodegradation-adsorption process. *Journal of Hazardous Materials*. 164(1): 138-145.	123
7	Saha, M., Togo, A., Mizukawa, K., Murakami, M., Takada, H., Zakaria, M.P., Chiem, N.H., Tuyen, B.C., Prudente, M., Boonyatumanond, R., Sarkar, S.K., Bhattacharya, B., Mishra, P., Tana, T.S. (2009). Sources of sedimentary PAHs in tropical Asian waters: Differentiation between pyrogenic and petrogenic sources	118

	by alkyl homolog abundance. *Marine Pollution Bulletin*. 58(2): 189-200.	
7	Amin, B., Ismail, A., Arshad, A., Yap, C.K., Kamarudin, M.S. (2009). Anthropogenic impacts on heavy metal concentrations in the coastal sediments of Dumai, Indonesia. *Environmental Monitoring and Assessment*. 148(1-Apr): 291-305.	118
8	Gaya, U.I., Abdullah, A.H., Zainal, Z., Hussein, M.Z. (2009). Photocatalytic treatment of 4-chlorophenol in aqueous ZnO suspensions: Intermediates, influence of dosage and inorganic anions. *Journal of Hazardous Materials*. 168(1): 57-63.	102
9	Abdullah, M.A., Chiang, L., Nadeem, M. (2009). Comparative evaluation of adsorption kinetics and isotherms of a natural product removal by Amberlite polymeric adsorbents. *Chemical Engineering Journal*. 146(3): 370-376.	81
10	Abdel Wahab, S.I., Abdul, A.B., Alzubairi, A.S., Mohamed Elhassan, M., Mohan, S. (2009). In vitro ultramorphological assessment of apoptosis induced by Zerumbone on (HeLa). *Journal of Biomedicine and Biotechnology*. 2009: 1-10.	72
11	Bakhtiari, A.R., Zakaria, M.P., Yaziz, M.I., Lajis, M.N.H., Bi, X., Rahim, M.C.A. (2009). Vertical distribution and source identification of polycyclic aromatic hydrocarbons in anoxic sediment cores of Chini Lake, Malaysia: Perylene as indicator of land plant-derived hydrocarbons. *Applied Geochemistry*. 24(9): 1777-1787.	68
12	Wang, Y., Liu, C.S., Li, F.B., Liu, C.P., Liang, J.B. (2009). Photodegradation of polycyclic aromatic hydrocarbon pyrene by iron oxide in solid phase. *Journal of Hazardous Materials*. 162(2-Mar): 716-723.	67
13	Rashdi, A.A.A., Sapuan, S.M., Ahmad, M.M.H.M., Khalina, A. (2009). Water absorption and tensile properties of soil buried kenaf fibre reinforced unsaturated polyester composites (KFRUPC). *Journal of Food, Agriculture and Environment*. 7(3-Apr): 908-911.	53
14	Huang, N.M., Radiman, S., Lim, H.N., Khiew, P.S., Chiu, W.S., Lee, K.H., Syahida, A., Hashim, R., Chia, C.H. (2009). γ-Ray assisted synthesis of silver nanoparticles in chitosan solution and the antibacterial properties. *Chemical Engineering Journal*. 155(1-Feb): 499-507.	48
15	Razman, M.R., Azlan, A. (2009). Safety issues related to polychlorinated dibenzo-p-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs) in fish and shellfish in relation with current Malaysian laws. *Journal of Food, Agriculture and Environment*. 7(3-Apr): 134-138.	39
16	Asadi, A., Huat, B.B.K., Hanafi, M.M., Mohamed, T.A., Shariatmadari, N. (2009). Role of organic matter on electroosmotic properties and ionic modification of organic soils. *Geosciences Journal*. 13(2): 175-181.	38

16	Haroun, M., Idris, A. (2009). Treatment of textile wastewater with an anaerobic fluidized bed reactor. *Desalination*. 237(1-Mar): 357-366.	38
16	Ghani, W.A.W.A.K., Alias, A.B., Savory, R.M., Cliffe, K.R. (2009). Co-combustion of agricultural residues with coal in a fluidised bed combustor. *Waste Management*. 29(2): 767-773.	38
17	Aris, A.Z., Abdullah, M.H., Kim, K.W., Praveena, S.M. (2009). Hydrochemical changes in a small tropical island's aquifer: Manukan Island, Sabah, Malaysia. *Environmental Geology*. 56(8): 1721-1732.	36
18	Yusof, N., Haraguchi, A., Hassan, M.A., Othman, M.R., Wakisaka, M., Shirai, Y. (2009). Measuring organic carbon, nutrients and heavy metals in rivers receiving leachate from controlled and uncontrolled municipal solid waste (MSW) landfills. *Waste Management*. 29(10): 2666-2680.	35
18	Bakhtiari, A.R., Zakaria, M.P., Yaziz, M.I., Lajis, M.N.H., Bi, X. (2009). Polycyclic aromatic hydrocarbons and n-alkanes in suspended particulate matter and sediments from the langat river, Peninsular Malaysia. *EnvironmentAsia*. 2(2): 1-10.	35
18	Edward, F.B., Yap, C.K., Ismail, A., Tan, S.G. (2009). Interspecific variation of heavy metal concentrations in the different parts of tropical intertidal bivalves. *Water, Air, and Soil Pollution*. 196(1-Apr): 297-309.	35
19	Haroun, M., Idris, A., Omar, S. (2009). Analysis of heavy metals during composting of the tannery sludge using physicochemical and spectroscopic techniques. *Journal of Hazardous Materials*. 165(1-Mar): 111-119.	32
20	Yap, C.K., Noorhaidah, A., Azlan, A., Nor Azwady, A.A., Ismail, A., Ismail, A.R., Siraj, S.S., Tan, S.G. (2009). Telescopium telescopium as potential biomonitors of Cu, Zn, and Pb for the tropical intertidal area. *Ecotoxicology and Environmental Safety*. 72(2): 496-506.	30

Penerbitan Pegawai UPM tahun 2009 dalam bidang Sains Alam Sekitar - 157 penerbitan
UPM Officers publications in 2009 in the Field of Environmental Sciences - 157 publications

Jadual 32. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2010 Bidang Sains Alam Sekitar

Table 32. Top Twenty Citations of UPM Officers Publications Published in 2010 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Harun, R., Danquah, M.K., Forde, G.M. (2010). Microalgal biomass as a fermentation feedstock for bioethanol production. *Journal of Chemical Technology and Biotechnology*. 85(2): 199-203.	295
2	Sidique, S.F., Lupi, F., Joshi, S.V. (2010). The effects of behavior and attitudes on drop-off recycling activities. *Resources, Conservation and Recycling*. 54(3): 163-170.	157
3	Sidique, S.F., Joshi, S.V., Lupi, F. (2010). Factors influencing the rate of recycling: An analysis of Minnesota counties. *Resources, Conservation and Recycling*. 54(4): 242-249.	119
4	Yunus, R., Salleh, S.F., Abdullah, N., Biak, D.R.A. (2010). Effect of ultrasonic pre-treatment on low temperature acid hydrolysis of oil palm empty fruit bunch. *Bioresource Technology*. 101(24): 9792-9796.	80
5	Mumtaz, T., Yahaya, N.A., Abd-Aziz, S., Abdul Rahman, N., Yee, P.L., Shirai, Y., Hassan, M.A. (2010). Turning waste to wealth-biodegradable plastics polyhydroxyalkanoates from palm oil mill effluent-a Malaysian perspective. *Journal of Cleaner Production*. 18(14): 1393-1402.	74
6	Chiu, W.S., Khiew, P.S., Cloke, M., Isa, D., Tan, T.K., Radiman, S., Abd-Shukor, R., Hamid, M.A.Abd., Huang, N.M., Lim, H.N., Chia, C.H. (2010). Photocatalytic study of two-dimensional ZnO nanopellets in the decomposition of methylene blue. *Chemical Engineering Journal*. 158(2): 345-352.	73
7	Biswajeet, P., Saied, P. (2010). Comparison between prediction capabilities of neural network and fuzzy logic techniques for L and slide susceptibility mapping. *Disaster Advances*. 3(3): 26-34.	69
8	Shahidan, M.F., Shariff, M.K.M., Jones, P., Salleh, E., Abdullah, A.M. (2010). A comparison of Mesua ferrea L. and Hura crepitans L. for shade creation and radiation modification in improving thermal comfort. *Landscape and Urban Planning*. 97(3): 168-181.	63
8	Ismail, I., Hassan, Mohd.A., Abdul Rahman, N.A., Soon, C.S. (2010). Thermophilic biohydrogen production from palm oil mill effluent (POME) using suspended mixed culture. *Biomass and Bioenergy*. 34(1): 42-47.	63
8	Fakhru'l-Razi, A., Pendashteh, A., Abidin, Z.Z., Abdullah, L.C., Biak,	63

	D.R.A., Madaeni, S.S. (2010). Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use. *Bioresource Technology*. 101(18): 6942-6949.	
8	Ahsan, A., Shafiul Islam, K.M., Fukuhara, T., Ghazali, A.H. (2010). Experimental study on evaporation, condensation and production of a new tubular solar still. *Desalination*. 260(43525): 172-179.	63
9	Gaya, U.I., Abdullah, A.H., Hussein, M.Z., Zainal, Z. (2010). Photocatalytic removal of 2,4,6-trichlorophenol from water exploiting commercial ZnO powder. *Desalination*. 263(43525): 176-182.	55
10	Jonoobi, M., Harun, J., Tahir, P.M., Zaini, L.H., SaifulAzry, S., Makinejad, M.D. (2010). Characteristics of nanofibers extracted from kenaf core. *BioResources*. 5(4): 2556-2566.	52
11	Yahya, A., Sye, C.P., Ishola, T.A., Suryanto, H. (2010). Effect of adding palm oil mill decanter cake slurry with regular turning operation on the composting process and quality of compost from oil palm empty fruit bunches. *Bioresource Technology*. 101(22): 8736-8741.	50
12	Kausar, H., Sariah, M., Mohd Saud, H., Zahangir Alam, M., Razi Ismail, M. (2010). Development of compatible lignocellulolytic fungal consortium for rapid composting of rice straw. *International Biodeterioration and Biodegradation*. 64(7): 594-600.	49
13	Abdullah, N., Chin, N.L. (2010). Simplex-centroid mixture formulation for optimised composting of kitchen waste. *Bioresource Technology*. 101(21): 8205-8210.	47
14	Rahmani, A., Jinap, S., Soleimany, F. (2010). Validation of the procedure for the simultaneous determination of aflatoxins ochratoxin a and zearalenone in cereals using HPLC-FLD. *Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment*. 27(12): 1683-1693.	43
15	Mohamed, R., Jong, P.L., Zali, M.S. (2010). Fungal diversity in wounded stems of aquilaria malaccensis. *Fungal Diversity*. 43: 67-74.	41
15	Yusof, N., Hassan, M.A., Phang, L.Y., Tabatabaei, M., Othman, M.R., Mori, M., Wakisaka, M., Sakai, K., Shirai, Y. (2010). Nitrification of ammonium-rich sanitary landfill leachate. *Waste Management*. 30(1): 100-109.	41
16	Zulkifli, S.Z., Mohamat-Yusuff, F., Arai, T., Ismail, A., Miyazaki, N. (2010). An assessment of selected trace elements in intertidal surface sediments collected from the Peninsular Malaysia. *Environmental Monitoring and Assessment*. 169(43556): 457-472.	38
16	Hasan, A.M., Saied, P., Arvin, P.A.K., Biswajeet, P., Nikouravan, B., Mansor, S. (2010). Disasters and risk reduction in groundwater: Zagros mountain southwest Iran using geoinformatics techniques. *Disaster Advances*. 3(1): 51-57.	38

17	Juahir, H., Zain, S.M., Aris, A.Z., Yusoff, M.K., Mokhtar, M.B. (2010). Spatial assessment of Langat river water quality using chemometrics. *Journal of Environmental Monitoring*. 12(1): 287-295.	36
18	Hoidy, W.H., Al-Mulla, E.A.J., Al-Janabi, K.W. (2010). Mechanical and Thermal Properties of PLLA/PCL Modified Clay Nanocomposites. *Journal of Polymers and the Environment*. 18(4): 608-616.	35
19	Siregar, J.P., Sapuan, S.M., Rahman, M.Z.A., Zaman, H.M.D.K. (2010). The effect of alkali treatment on the mechanical properties of short pineapple leaf fibre (PALF) reinforced high impact polystyrene (HIPS) composites. *Journal of Food, Agriculture and Environment*. 8(2): 1103-1108.	34
20	Halimoon, N., Yin, R.G.S. (2010). Removal of heavy metals from textile wastewater using zeolite. *EnvironmentAsia*. 3(0): 124-130.	33

Penerbitan Pegawai UPM tahun 2010 dalam bidang Sains Alam Sekitar - 216 penerbitan
UPM Officers publications in 2010 in the Field of Environmental Science - 216 publications

Jadual 33. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2011
Bidang Sains Alam Sekitar
Table 33. Top Twenty Citations of UPM Officers Publications Published in 2011 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Salleh, M.A.M., Mahmoud, D.K., Karim, W.A.W.A., Idris, A. (2011). Cationic and anionic dye adsorption by agricultural solid wastes: A comprehensive review. *Desalination*. 280(1-Mar): 1-13.	631
2	Short, F.T., Polidoro, B., Livingstone, S.R., Carpenter, K.E., Bandeira, S., Bujang, J.S., Calumpong, H.P., Carruthers, T.J.B., Coles, R.G., Dennison, W.C., Erftemeijer, P.L.A., Fortes, M.D., Freeman, A.S., Jagtap, T.G., Kamal, A.H.M., Kendrick, G.A., Judson Kenworthy, W., La Nafie, Y.A., Nasution, I.M., Orth, R.J., Prathep, A., Sanciangco, J.C., Tussenbroek, B.V., Vergara, S.G., Waycott, M., Zieman, J.C. (2011). Extinction risk assessment of the world's seagrass species. *Biological Conservation*. 144(7): 1961-1971.	311
3	Juan, J.C., Kartika, D.A., Wu, T.Y., Hin, T.Y.Y. (2011). Biodiesel production from jatropha oil by catalytic and non-catalytic approaches: An overview. *Bioresource Technology*. 102(2): 452-460.	168
4	Taufiq-Yap, Y.H., Lee, H.V., Hussein, M.Z., Yunus, R. (2011). Calcium-based mixed oxide catalysts for methanolysis of Jatropha curcas oil to biodiesel. *Biomass and Bioenergy*. 35(2): 827-834.	161
4	Juahir, H., Zain, S.M., Yusoff, M.K., Hanidza, T.I.T., Armi, A.S.M., Toriman, M.E., Mokhtar, M. (2011). Spatial water quality assessment of Langat River Basin (Malaysia) using environmetric techniques. *Environmental Monitoring and Assessment*. 173(1-Apr): 625-641.	161
5	Sajab, M.S., Chia, C.H., Zakaria, S., Jani, S.M., Ayob, M.K., Chee, K.L., Khiew, P.S., Chiu, W.S. (2011). Citric acid modified kenaf core fibres for removal of methylene blue from aqueous solution. *Bioresource Technology*. 102(15): 7237-7243.	137
5	Harun, R., Jason, W.S.Y., Cherrington, T., Danquah, M.K. (2011). Exploring alkaline pre-treatment of microalgal biomass for bioethanol production. *Applied Energy*. 88(10): 3464-3467.	137
6	Hosseini, S., Khan, M.A., Malekbala, M.R., Cheah, W., Choong, T.S.Y. (2011). Carbon coated monolith, a mesoporous material for the removal of methyl orange from aqueous phase: Adsorption and desorption studies. *Chemical Engineering Journal*. 171(3): 1124-1131.	117
7	Harun, R., Davidson, M., Doyle, M., Gopiraj, R., Danquah, M., Forde, G. (2011). Technoeconomic analysis of an integrated microalgae	105

	photobioreactor, biodiesel and biogas production facility. *Biomass and Bioenergy*. 35(1): 741-747.	
8	Harun, R., Danquah, M.K. (2011). Enzymatic hydrolysis of microalgal biomass for bioethanol production. *Chemical Engineering Journal*. 168(3): 1079-1084.	93
9	Imteaz, M.A., Shanableh, A., Rahman, A., Ahsan, A. (2011). Optimisation of rainwater tank design from large roofs: A case study in Melbourne, Australia. *Resources, Conservation and Recycling*. 55(11): 1022-1029.	90
10	Bolch, T., Peters, J., Yegorov, A., Pradhan, B., Buchroithner, M., Blagoveshchensky, V. (2011). Identification of potentially dangerous glacial lakes in the northern Tien Shan. *Natural Hazards*. 59(3): 1691-1714.	81
11	Taufiq-Yap, Y.H., Lee, H.V., Yunus, R., Juan, J.C. (2011). Transesterification of non-edible Jatropha curcas oil to biodiesel using binary Ca-Mg mixed oxide catalyst: Effect of stoichiometric composition. *Chemical Engineering Journal*. 178: 342-347.	77
12	Iskandar, N.L., Zainudin, N.A.I.M., Tan, S.G. (2011). Tolerance and biosorption of copper (Cu) and lead (Pb) by filamentous fungi isolated from a freshwater ecosystem. *Journal of Environmental Sciences*. 23(5): 824-830.	75
13	Azma, M., Mohamed, M.S., Mohamad, R., Rahim, R.A., Ariff, A.B. (2011). Improvement of medium composition for heterotrophic cultivation of green microalgae, Tetraselmis suecica, using response surface methodology. *Biochemical Engineering Journal*. 53(2): 187-195.	73
14	Azhar, B., Lindenmayer, D.B., Wood, J., Fischer, J., Manning, A., McElhinny, C., Zakaria, M. (2011). The conservation value of oil palm plantation estates, smallholdings and logged peat swamp forest for birds. *Forest Ecology and Management*. 262(12): 2306-2315.	66
15	Tham, Y.J., Latif, P.A., Abdullah, A.M., Shamala-Devi, A., Taufiq-Yap, Y.H. (2011). Performances of toluene removal by activated carbon derived from durian shell. *Bioresource Technology*. 102(2): 724-728.	60
16	Harun, M.Y., Dayang Radiah, A.B., Zainal Abidin, Z., Yunus, R. (2011). Effect of physical pretreatment on dilute acid hydrolysis of water hyacinth (Eichhornia crassipes). *Bioresource Technology*. 102(8): 5193-5199.	59
17	Rashid, U., Anwar, F., Knothe, G. (2011). Biodiesel from Milo (Thespesia populnea L.) seed oil. *Biomass and Bioenergy*. 35(9): 4034-4039.	55
18	Imteaz, M.A., Ahsan, A., Naser, J., Rahman, A. (2011). Reliability analysis of rainwater tanks in Melbourne using daily water balance model. *Resources, Conservation and Recycling*. 56(1): 80-86.	54

19	Joseph, C.G., Puma, G.L., Bono, A., Taufiq-Yap, Y.H., Krishnaiah, D. (2011). Operating parameters and synergistic effects of combining ultrasound and ultraviolet irradiation in the degradation of 2,4,6-trichlorophenol. *Desalination*. 276(1-Mar): 303-309.	53
20	Ebrahimpour, A., Rahman, R.N.Z.R.A., Basri, M., Salleh, A.B. (2011). High level expression and characterization of a novel thermostable, organic solvent tolerant, 1,3-regioselective lipase from Geobacillus sp. strain ARM. *Bioresource Technology*. 102(13): 6972-6981.	51
20	Pendashteh, A.R., Fakhru'l-Razi, A., Madaeni, S.S., Abdullah, L.C., Abidin, Z.Z., Biak, D.R.A. (2011). Membrane foulants characterization in a membrane bioreactor (MBR) treating hypersaline oily wastewater. *Chemical Engineering Journal*. 168(1): 140-150.	51

Penerbitan Pegawai UPM tahun 2011 dalam bidang Sains Alam Sekitar - 240 penerbitan
UPM Officers publications in 2011 in the Field of Environmental Sciences - 240 publications

Jadual 34. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2012
Bidang Sains Alam Sekitar
Table 34. Top Twenty Citations of UPM Officers Publications Published in 2012 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Pourghasemi, H.R., Pradhan, B., Gokceoglu, C. (2012). Application of fuzzy logic and analytical hierarchy process (AHP) to landslide susceptibility mapping at Haraz watershed, Iran. *Natural Hazards*. 63(2): 965-996.	322
2	Mahmoud, D.K., Salleh, M.A.M., Karim, W.A.W.A., Idris, A., Abidin, Z.Z. (2012). Batch adsorption of basic dye using acid treated kenaf fibre char: Equilibrium, kinetic and thermodynamic studies. *Chemical Engineering Journal*. 181-182: 449-457.	189
3	Kia, M.B., Pirasteh, S., Pradhan, B., Mahmud, A.R., Sulaiman, W.N.A., Moradi, A. (2012). An artificial neural network model for flood simulation using GIS: Johor River Basin, Malaysia. *Environmental Earth Sciences*. 67(1): 251-264.	155
4	Nasir, I.M., Mohd Ghazi, T.I., Omar, R. (2012). Anaerobic digestion technology in livestock manure treatment for biogas production: A review. *Engineering in Life Sciences*. 12(3): 258-269.	126
5	Zokaeifar, H., Balcázar, J.L., Saad, C.R., Kamarudin, M.S., Sijam, K., Arshad, A., Nejat, N. (2012). Effects of Bacillus subtilis on the growth performance, digestive enzymes, immune gene expression and disease resistance of white shrimp, Litopenaeus vannamei. *Fish and Shellfish Immunology*. 33(4): 683-689.	125
6	Nagao, N., Tajima, N., Kawai, M., Niwa, C., Kurosawa, N., Matsuyama, T., Yusoff, F.M., Toda, T. (2012). Maximum organic loading rate for the single-stage wet anaerobic digestion of food waste. *Bioresource Technology*. 118: 210-218.	116
7	Tripathi, B.M., Kim, M., Singh, D., Lee-Cruz, L., Lai-Hoe, A., Ainuddin, A.N., Go, R., Rahim, R.A., Husni, M.H.A., Chun, J., Adams, J.M. (2012). Tropical Soil Bacterial Communities in Malaysia: PH Dominates in the Equatorial Tropics Too. *Microbial Ecology*. 64(2): 474-484.	112
8	Dominick, D., Juahir, H., Latif, M.T., Zain, S.M., Aris, A.Z. (2012). Spatial assessment of air quality patterns in Malaysia using multivariate analysis. *Atmospheric Environment*. 60: 172-181.	111
9	Makaremi, N., Salleh, E., Jaafar, M.Z., GhaffarianHoseini, A. (2012). Thermal comfort conditions of shaded outdoor spaces in hot and humid climate of Malaysia. *Building and Environment*. 48(1): 7-14.	100

10	Shahidan, M.F., Jones, P.J., Gwilliam, J., Salleh, E. (2012). An evaluation of outdoor and building environment cooling achieved through combination modification of trees with ground materials. *Building and Environment*. 58: 245-257.	95
11	Mohd Ali, N., Yeap, S.K., Ho, W.Y., Beh, B.K., Tan, S.W., Tan, S.G. (2012). The promising future of chia, Salvia hispanica L.. *Journal of Biomedicine and Biotechnology*. 2012: 1-9.	94
12	Pradhan, B., Chaudhari, A., Adinarayana, J., Buchroithner, M.F. (2012). Soil erosion assessment and its correlation with landslide events using remote sensing data and GIS: A case study at Penang Island, Malaysia. *Environmental Monitoring and Assessment*. 184(2): 715-727.	91
13	Gazzaz, N.M., Yusoff, M.K., Aris, A.Z., Juahir, H., Ramli, M.F. (2012). Artificial neural network modeling of the water quality index for Kinta River (Malaysia) using water quality variables as predictors. *Marine Pollution Bulletin*. 64(11): 2409-2420.	87
14	Jonoobi, M., Mathew, A.P., Abdi, M.M., Makinejad, M.D., Oksman, K. (2012). A Comparison of Modified and Unmodified Cellulose Nanofiber Reinforced Polylactic Acid (PLA) Prepared by Twin Screw Extrusion. *Journal of Polymers and the Environment*. 20(4): 991-997.	83
15	Mohammed, M.A.A., Salmiaton, A., Wan Azlina, W.A.K.G., Mohamad Amran, M.S. (2012). Gasification of oil palm empty fruit bunches: A characterization and kinetic study. *Bioresource Technology*. 110: 628-636.	80
15	Arunkumar, T., Jayaprakash, R., Denkenberger, D., Ahsan, A., Okundamiya, M.S., kumar, S., Tanaka, H., Aybar, H.Ş. (2012). An experimental study on a hemispherical solar still. *Desalination*. 286: 342-348.	80
16	Pendashteh, A.R., Abdullah, L.C., Fakhru'L-Razi, A., Madaeni, S.S., Zainal Abidin, Z., Awang Biak, D.R. (2012). Evaluation of membrane bioreactor for hypersaline oily wastewater treatment. *Process Safety and Environmental Protection*. 90(1): 45-55.	77
17	Nakata, H., Shinohara, R.-I., Nakazawa, Y., Isobe, T., Sudaryanto, A., Subramanian, A., Tanabe, S., Zakaria, M.P., Zheng, G.J., Lam, P.K.S., Kim, E.Y., Min, B.-Y., We, S.-U., Viet, P.H., Tana, T.S., Prudente, M., Frank, D., Lauenstein, G., Kannan, K. (2012). Asia-Pacific mussel watch for emerging pollutants: Distribution of synthetic musks and benzotriazole UV stabilizers in Asian and US coastal waters. *Marine Pollution Bulletin*. 64(10): 2211-2218.	73
18	Akgun, A., Kıncal, C., Pradhan, B. (2012). Application of remote sensing data and GIS for landslide risk assessment as an environmental threat to Izmir city (west Turkey). *Environmental Monitoring and Assessment*. 184(9): 5453-5470.	71
19	Zahari, M.A.K.M., Zakaria, M.R., Ariffin, H., Mokhtar, M.N., Salihon, J., Shirai, Y., Hassan, M.A. (2012). Renewable sugars from oil palm	65

	frond juice as an alternative novel fermentation feedstock for value-added products. *Bioresource Technology*. 110: 566-571.	
20	Khan, M.A., Ngabura, M., Choong, T.S.Y., Masood, H., Chuah, L.A. (2012). Biosorption and desorption of Nickel on oil cake: Batch and column studies. *Bioresource Technology*. 103(1): 35-42.	64

Penerbitan Pegawai UPM tahun 2012 dalam bidang Sains Alam Sekitar - 320 penerbitan
UPM Officers publications in 2012 in the Field of Environmental Science - 320 publications

Jadual 35. Dua Puluh Petikan Teratas bagi Penerbitan UPM Tahun 2013 Bidang Sains Alam Sekitar

Table 35. Top Twenty Citations of UPM Officers Publications Published in 2013 in the Field of Environmental Science

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Devkota, K.C., Regmi, A.D., Pourghasemi, H.R., Yoshida, K., Pradhan, B., Ryu, I.C., Dhital, M.R., Althuwaynee, O.F. (2013). Landslide susceptibility mapping using certainty factor, index of entropy and logistic regression models in GIS and their comparison at Mugling-Narayanghat road section in Nepal Himalaya. *Natural Hazards*. 65(1): 135-165.	253
2	Tehrany, M.S., Pradhan, B., Jebur, M.N. (2013). Spatial prediction of flood susceptible areas using rule based decision tree (DT) and a novel ensemble bivariate and multivariate statistical models in GIS. *Journal of Hydrology*. 504: 69-79.	181
3	Zare, M., Pourghasemi, H.R., Vafakhah, M., Pradhan, B. (2013). Landslide susceptibility mapping at Vaz Watershed (Iran) using an artificial neural network model: A comparison between multilayer perceptron (MLP) and radial basic function (RBF) algorithms. *Arabian Journal of Geosciences*. 6(8): 2873-2888.	141
4	Pourghasemi, H.R., Pradhan, B., Gokceoglu, C., Mohammadi, M., Moradi, H.R. (2013). Application of weights-of-evidence and certainty factor models and their comparison in landslide susceptibility mapping at Haraz watershed, Iran. *Arabian Journal of Geosciences*. 6(7): 2351-2365.	136
5	Yasin, N.H.M., Mumtaz, T., Hassan, M.A., Abd Rahman, N. (2013). Food waste and food processing waste for biohydrogen production: A review. *Journal of Environmental Management*. 130: 375-385.	101
6	Biro, K., Pradhan, B., Buchroithner, M., Makeschin, F. (2013). Land Use/Land Cover Change Analysis And Its Impact On Soil Properties In The Northern Part Of Gadarif Region, Sudan. *Land Degradation and Development*. 24(1): 90-102.	100
7	Ho, Y.B., Zakaria, M.P., Latif, P.A., Saari, N. (2013). Degradation of veterinary antibiotics and hormone during broiler manure composting. *Bioresource Technology*. 131: 476-484.	99
7	Aljuboori, A.H.R., Idris, A., Abdullah, N., Mohamad, R. (2013). Production and characterization of a bioflocculant produced by Aspergillus flavus. *Bioresource Technology*. 127: 489-493.	99
8	Pourghasemi, H.R., Pradhan, B., Gokceoglu, C., Moezzi, K.D. (2013). A comparative assessment of prediction capabilities of Dempster-	93

	Shafer and Weights-of-evidence models in landslide susceptibility mapping using GIS. *Geomatics, Natural Hazards and Risk*. 4(2): 93-118.	
9	Cheah, W., Hosseini, S., Khan, M.A., Chuah, T.G., Choong, T.S.Y. (2013). Acid modified carbon coated monolith for methyl orange adsorption. *Chemical Engineering Journal*. 0: 747-754.	91
10	Shimizu, A., Takada, H., Koike, T., Takeshita, A., Saha, M., Rinawati, Nakada, N., Murata, A., Suzuki, T., Suzuki, S., Chiem, N.H., Tuyen, B.C., Viet, P.H., Siringan, M.A., Kwan, C., Zakaria, M.P., Reungsang, A. (2013). Ubiquitous occurrence of sulfonamides in tropical Asian waters. *Science of the Total Environment*. 0: 108-115.	86
11	Al-shalabi, M., Billa, L., Pradhan, B., Mansor, S., Al-Sharif, A.A.A. (2013). Modelling urban growth evolution and land-use changes using GIS based cellular automata and SLEUTH models: The case of Sana'a metropolitan city, Yemen. *Environmental Earth Sciences*. 70(1): 425-437.	84
11	Lasekan, A., Abu Bakar, F., Hashim, D. (2013). Potential of chicken by-products as sources of useful biological resources. *Waste Management*. 33(3): 552-565.	84
12	Islam, A., Taufiq-Yap, Y.H., Chu, C.-M., Chan, E.-S., Ravindra, P. (2013). Studies on design of heterogeneous catalysts for biodiesel production. *Process Safety and Environmental Protection*. 91(43497): 131-144.	83
13	Karim Ghani, W.A.W.A., Rusli, I.F., Biak, D.R.A., Idris, A. (2013). An application of the theory of planned behaviour to study the influencing factors of participation in source separation of food waste. *Waste Management*. 33(5): 1276-1281.	82
14	Zulkifli, N.W.M., Kalam, M.A., Masjuki, H.H., Shahabuddin, M., Yunus, R. (2013). Wear prevention characteristics of a palm oil-based TMP (trimethylolpropane) ester as an engine lubricant. *Energy*. 54: 167-173.	81
14	Arunkumar, T., Denkenberger, D., Ahsan, A., Jayaprakash, R. (2013). The augmentation of distillate yield by using concentrator coupled solar still with phase change material. *Desalination*. 314: 189-192.	81
15	Tien Bui, D., Pradhan, B., Lofman, O., Revhaug, I., Dick, Ø.B. (2013). Regional prediction of landslide hazard using probability analysis of intense rainfall in the Hoa Binh province, Vietnam. *Natural Hazards*. 66(2): 707-730.	78
15	Arunkumar, T., Jayaprakash, R., Ahsan, A., Denkenberger, D., Okundamiya, M.S. (2013). Effect of water and air flow on concentric tubular solar water desalting system. *Applied Energy*. 103: 109-115.	78
16	Manap, M.A., Sulaiman, W.N.A., Ramli, M.F., Pradhan, B., Surip, N. (2013). A knowledge-driven GIS modeling technique for groundwater potential mapping at the Upper Langat Basin,	77

	Malaysia. *Arabian Journal of Geosciences*. 6(5): 1621-1637.	
17	Samsuri, A.W., Sadegh-Zadeh, F., Seh-Bardan, B.J. (2013). Adsorption of As(III) and As(V) by Fe coated biochars and biochars produced from empty fruit bunch and rice husk. *Journal of Environmental Chemical Engineering*. 1(4): 981-988.	76
18	Lee, H.V., Taufiq-Yap, Y.H., Hussein, M.Z., Yunus, R. (2013). Transesterification of jatropha oil with methanol over Mg-Zn mixed metal oxide catalysts. *Energy*. 49(1): 12-18.	72
19	Kumar, R., Isloor, A.M., Ismail, A.F., Rashid, S.A., Ahmed, A.A. (2013). Permeation, Antifouling and desalination performance of TiO<inf>2</inf> nanotube incorporated PSf/CS blend membranes. *Desalination*. 316: 76-84.	53
20	Yoshizaki, T., Shirai, Y., Hassan, M.A., Baharuddin, A.S., Raja Abdullah, N.M., Sulaiman, A., Busu, Z. (2013). Improved economic viability of integrated biogas energy and compost production for sustainable palm oil mill management. *Journal of Cleaner Production*. 44: 1-7.	52

Penerbitan Pegawai UPM tahun 2013 dalam bidang Sains Alam Sekitar - 383 penerbitan
UPM Officers publications in 2013 in the Field of Environmental Sciences -383 publications

Jadual 36. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2014 Bidang Sains Alam Sekitar

Table 36. Top Twenty Citations of UPM Officers Publications Published in 2014 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Al-Oqla, F.M., Sapuan, S.M. (2014). Natural fiber reinforced polymer composites in industrial applications: Feasibility of date palm fibers for sustainable automotive industry. *Journal of Cleaner Production*. 66: 347-354.	240
2	Berardi, U., GhaffarianHoseini, A., GhaffarianHoseini, A. (2014). State-of-the-art analysis of the environmental benefits of green roofs. *Applied Energy*. 115: 411-428.	206
3	Tehrany, M.S., Pradhan, B., Jebur, M.N. (2014). Flood susceptibility mapping using a novel ensemble weights-of-evidence and support vector machine models in GIS. *Journal of Hydrology*. 512: 332-343.	202
4	Aris, A.Z., Shamsuddin, A.S., Praveena, S.M. (2014). Occurrence of 17α-ethynylestradiol (EE2) in the environment and effect on exposed biota: A review. *Environment International*. 69: 104-119.	169
5	Aziz, M.A.A., Jalil, A.A., Triwahyono, S., Mukti, R.R., Taufiq-Yap, Y.H., Sazegar, M.R. (2014). Highly active Ni-promoted mesostructured silica nanoparticles for CO<inf>2</inf> methanation. *Applied Catalysis B: Environmental*. 147: 359-368.	160
5	Hyde, K.D., Nilsson, R.H., Alias, S.A., Ariyawansa, H.A., Blair, J.E., Cai, L., de Cock, A.W.A.M., Dissanayake, A.J., Glockling, S.L., Goonasekara, I.D., Gorczak, M., Hahn, M., Jayawardena, R.S., van Kan, J.A.L., Laurence, M.H., Lévesque, C.A., Li, X., Liu, J.-K., Maharachchikumbura, S.S.N., Manamgoda, D.S., Martin, F.N., McKenzie, E.H.C., McTaggart, A.R., Mortimer, P.E., Nair, P.V.R., Pawłowska, J., Rintoul, T.L., Shivas, R.G., Spies, C.F.J., Summerell, B.A., Taylor, P.W.J., Terhem, R.B., Udayanga, D., Vaghefi, N., Walther, G., Wilk, M., Wrzosek, M., Xu, J.-C., Yan, J.Y., Zhou, N. (2014). One stop shop: backbones trees for important phytopathogenic genera: I (2014). *Fungal Diversity*. 67(1): 21-125.	160
6	Regmi, A.D., Devkota, K.C., Yoshida, K., Pradhan, B., Pourghasemi, H.R., Kumamoto, T., Akgun, A. (2014). Application of frequency ratio, statistical index, and weights-of-evidence models and their comparison in landslide susceptibility mapping in Central Nepal Himalaya. *Arabian Journal of Geosciences*. 7(2): 725-742.	153
7	Nampak, H., Pradhan, B., Manap, M.A. (2014). Application of GIS based data driven evidential belief function model to predict	135

	groundwater potential zonation. *Journal of Hydrology*. 513: 283-300.	
8	Lim, A.P., Aris, A.Z. (2014). A review on economically adsorbents on heavy metals removal in water and wastewater. *Reviews in Environmental Science and Biotechnology*. 13(2): 163-181.	104
9	Tumirah, K., Hussein, M.Z., Zulkarnain, Z., Rafeadah, R. (2014). Nano-encapsulated organic phase change material based on copolymer nanocomposites for thermal energy storage. *Energy*. 66: 881-890.	102
10	Pourghasemi, H.R., Moradi, H.R., Fatemi Aghda, S.M., Gokceoglu, C., Pradhan, B. (2014). GIS-based landslide susceptibility mapping with probabilistic likelihood ratio and spatial multi-criteria evaluation models (North of Tehran, Iran). *Arabian Journal of Geosciences*. 7(5): 1857-1878.	92
11	Neshat, A., Pradhan, B., Pirasteh, S., Shafri, H.Z.M. (2014). Estimating groundwater vulnerability to pollution using a modified DRASTIC model in the Kerman agricultural area, Iran. *Environmental Earth Sciences*. 71(7): 3119-3131.	85
12	Hudson, L.N., Newbold, T., Contu, S., Hill, S.L.L., Lysenko, I., De Palma, A., Phillips, H.R.P., Senior, R.A., Bennett, D.J., Booth, H., Choimes, A., Correia, D.L.P., Day, J., Echeverría-Londoño, S., Garon, M., Harrison, M.L.K., Ingram, D.J., Jung, M., Kemp, V., Kirkpatrick, L., Martin, C.D., Pan, Y., White, H.J., Aben, J., Abrahamczyk, S., Adum, G.B., Aguilar-Barquero, V., Aizen, M.A., Ancrenaz, M., Arbeláez-Cortés, E., Armbrecht, I., Azhar, B., Azpiroz, A.B., Baeten, L., Báldi, A., Banks, J.E., Barlow, J., Batáry, P., Bates, A.J., Bayne, E.M., Beja, P., Berg, A., Berry, N.J., Bicknell, J.E., Bihn, J.H., Böhning-Gaese, K., Boekhout, T., Boutin, C., Bouyer, J., Brearley, F.Q., Brito, I., Brunet, J., Buczkowski, G., Buscardo, E., Cabra-García, J., Calviño-Cancela, M., Cameron, S.A., Cancello, E.M., Carrijo, T.F., Carvalho, A.L., Castro, H., Castro-Luna, A.A., Cerda, R., Cerezo, A., Chauvat, M., Clarke, F.M., Cleary, D.F.R., Connop, S.P., D'Aniello, B., da Silva, P.G., Darvill, B., Dauber, J., Dejean, A., Diekötter, T., Dominguez-Haydar, Y., Dormann, C.F., Dumont, B., Dures, S.G., Dynesius, M., Edenius, L., Elek, Z., Entling, M.H., Farwig, N., Fayle, T.M., Felicioli, A., Felton, A.M., Ficetola, G.F., Filgueiras, B.K.C., Fonte, S.J., Fraser, L.H., Fukuda, D., Furlani, D., Ganzhorn, J.U., Garden, J.G., Gheler-Costa, C., Giordani, P., Giordano, S., Gottschalk, M.S., Goulson, D., Gove, A.D., Grogan, J., Hanley, M.E., Hanson, T., Hashim, N.R., Hawes, J.E., Hébert, C., Helden, A.J., Henden, J.-A., Hernández, L., Herzog, F., Higuera-Diaz, D., Hilje, B., Horgan, F.G., Horváth, R., Hylander, K., Isaacs-Cubides, P., Ishitani, M., Jacobs, C.T., Jaramillo, V.J., Jauker, B., Jonsell, M., Jung, T.S., Kapoor, V., Kati, V., Katovai, E., Kessler, M., Knop, E., Kolb, A., Korösi, Á., Lachat, T., Lantschner, V., Le Féon, V., Lebuhn, G., Légaré, J.-P., Letcher, S.G., Littlewood, N.A., López-	81

	Quintero, C.A., Louhaichi, M., Lövei, G.L., Lucas-Borja, M.E., Luja, V.H., Maeto, K., Magura, T., Mallari, N.A., Marin-Spiotta, E., Marshall, E.J.P., Martínez, E., Mayfield, M.M., Mikusinski, G., Milder, J.C., Miller, J.R., Morales, C.L., Muchane, M.N., Muchane, M., Naidoo, R., Nakamura, A., Naoe, S., Nates-Parra, G., Navarrete Gutierrez, D.A., Neuschulz, E.L., Noreika, N., Norfolk, O., Noriega, J.A., Nöske, N.M., O'Dea, N., Oduro, W., Ofori-Boateng, C., Oke, C.O., Osgathorpe, L.M., Paritsis, J., Parra-H, A., Pelegrin, N., Peres, C.A., Persson, A.S., Petanidou, T., Phalan, B., Philips, T.K., Poveda, K., Power, E.F., Presley, S.J., Proença, V., Quaranta, M., Quintero, C., Redpath-Downing, N.A., Reid, J.L., Reis, Y.T., Ribeiro, D.B., Richardson, B.A., Richardson, M.J., Robles, C.A., Römbke, J., Romero-Duque, L.P., Rosselli, L., Rossiter, S.J., Roulston, T.H., Rousseau, L., Sadler, J.P., Sáfián, S., Saldaña-Vázquez, R.A., Samnegård, U., Schüepp, C., Schweiger, O., Sedlock, J.L., Shahabuddin, G., Sheil, D., Silva, F.A.B., Slade, E.M., Smith-Pardo, A.H., Sodhi, N.S., Somarriba, E.J., Sosa, R.A., Stout, J.C., Struebig, M.J., Sung, Y.-H., Threlfall, C.G., Tonietto, R., Tóthmérész, B., Tscharntke, T., Turner, E.C., Tylianakis, J.M., Vanbergen, A.J., Vassilev, K., Verboven, H.A.F., Vergara, C.H., Vergara, P.M., Verhulst, J., Walker, T.R., Wang, Y., Watling, J.I., Wells, K., Williams, C.D., Willig, M.R., Woinarski, J.C.Z., Wolf, J.H.D., Woodcock, B.A., Yu, D.W., Zaitsev, A.S., Collen, B., Ewers, R.M., Mace, G.M., Purves, D.W., Scharlemann, J.P.W., Purvis, A. (2014). The PREDICTS database: A global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution*. 4(24): 4701-4735.	
13	Pradhan, B., Abokharima, M.H., Jebur, M.N., Tehrany, M.S. (2014). Land subsidence susceptibility mapping at Kinta Valley (Malaysia) using the evidential belief function model in GIS. *Natural Hazards*. 73(2): 1019-1042.	76
13	Neshat, A., Pradhan, B., Dadras, M. (2014). Groundwater vulnerability assessment using an improved DRASTIC method in GIS. *Resources, Conservation and Recycling*. 86: 74-86.	76
14	Moh, Y.C., Abd Manaf, L. (2014). Overview of household solid waste recycling policy status and challenges in Malaysia. *Resources, Conservation and Recycling*. 82: 50-61.	74
15	Manap, M.A., Nampak, H., Pradhan, B., Lee, S., Sulaiman, W.N.A., Ramli, M.F. (2014). Application of probabilistic-based frequency ratio model in groundwater potential mapping using remote sensing data and GIS. *Arabian Journal of Geosciences*. 7(2): 711-724.	73
16	Lim, A.P., Aris, A.Z. (2014). Continuous fixed-bed column study and adsorption modeling: Removal of cadmium (II) and lead (II) ions in aqueous solution by dead calcareous skeletons. *Biochemical Engineering Journal*. 87: 50-61.	69

16	Ahsan, A., Imteaz, M., Thomas, U.A., Azmi, M., Rahman, A., Nik Daud, N.N. (2014). Parameters affecting the performance of a low cost solar still. *Applied Energy*. 114: 924-930.	69
17	Aslani, F., Bagheri, S., Muhd Julkapli, N., Juraimi, A.S., Hashemi, F.S.G., Baghdadi, A. (2014). Effects of engineered nanomaterials on plants growth: An overview. *Scientific World Journal*. 2014: 1-28.	67
18	Uddin, M.K., Juraimi, A.S., Hossain, M.S., Nahar, M.A.U., Ali, M.E., Rahman, M.M. (2014). Purslane weed (Portulaca oleracea): A prospective plant source of nutrition, omega-3 fatty acid, and antioxidant attributes. *The Scientific World Journal*. 2014: 1-6.	66
19	Nourani, V., Pradhan, B., Ghaffari, H., Sharifi, S.S. (2014). Landslide susceptibility mapping at Zonouz Plain, Iran using genetic programming and comparison with frequency ratio, logistic regression, and artificial neural network models. *Natural Hazards*. 71(1): 523-547.	63
20	Kawai, M., Nagao, N., Tajima, N., Niwa, C., Matsuyama, T., Toda, T. (2014). The effect of the labile organic fraction in food waste and the substrate/inoculum ratio on anaerobic digestion for a reliable methane yield. *Bioresource Technology*. 157: 174-180.	62

Penerbitan Pegawai UPM tahun 2014 dalam bidang Sains Alam Sekitar - 512 penerbitan
UPM Officers publications in 2014 in the Field of Environmental Science - 512 publications

Jadual 37. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2015 Bidang Sains Alam Sekitar

Table 37. Top Twenty Citations of UPM Officers Publications Published in 2015 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Tan, Y.H., Abdullah, M.O., Nolasco-Hipolito, C., Taufiq-Yap, Y.H. (2015). Waste ostrich- and chicken-eggshells as heterogeneous base catalyst for biodiesel production from used cooking oil: Catalyst characterization and biodiesel yield performance. *Applied Energy*. 160: 58-70.	99
2	Youssef, A.M., Al-Kathery, M., Pradhan, B. (2015). Landslide susceptibility mapping at Al-Hasher area, Jizan (Saudi Arabia) using GIS-based frequency ratio and index of entropy models. *Geosciences Journal*. 19(1): 113-134.	83
3	Tehrany, M.S., Pradhan, B., Jebur, M.N. (2015). Flood susceptibility analysis and its verification using a novel ensemble support vector machine and frequency ratio method. *Stochastic Environmental Research and Risk Assessment*. 29(4): 1149-1165.	66
4	Arafat, H.A., Jijakli, K., Ahsan, A. (2015). Environmental performance and energy recovery potential of five processes for municipal solid waste treatment. *Journal of Cleaner Production*. 105: 233-240.	64
5	Youssef, A.M., Pradhan, B., Jebur, M.N., El-Harbi, H.M. (2015). Landslide susceptibility mapping using ensemble bivariate and multivariate statistical models in Fayfa area, Saudi Arabia. *Environmental Earth Sciences*. 73(7): 3745-3761.	60
6	Bundhoo, M.A.Z., Mohee, R., Hassan, M.A. (2015). Effects of pre-treatment technologies on dark fermentative biohydrogen production: A review. *Journal of Environmental Management*. 157: 20-48.	57
7	Razali, N., Salit, M.S., Jawaid, M., Ishak, M.R., Lazim, Y. (2015). A study on chemical composition, physical, tensile, morphological, and thermal properties of roselle fibre: Effect of fibre maturity. *BioResources*. 10(1): 1803-1823.	53
7	Moghaddam, D.D., Rezaei, M., Pourghasemi, H.R., Pourtaghie, Z.S., Pradhan, B. (2015). Groundwater spring potential mapping using bivariate statistical model and GIS in the Taleghan Watershed, Iran. *Arabian Journal of Geosciences*. 8(2): 913-929.	53
8	Subramaniam, J., Murugan, K., Panneerselvam, C., Kovendan, K., Madhiyazhagan, P., Kumar, P.M., Dinesh, D., Chandramohan, B.,	51

	Suresh, U., Nicoletti, M., Higuchi, A., Hwang, J.-S., Kumar, S., Alarfaj, A.A., Munusamy, M.A., Messing, R.H., Benelli, G. (2015). Eco-friendly control of malaria and arbovirus vectors using the mosquitofish Gambusia affinis and ultra-low dosages of Mimusops elengi-synthesized silver nanoparticles: towards an integrative approach?. *Environmental Science and Pollution Research*. 22(24): 20067-20083.	
9	Zakaria, M.R., Hirata, S., Hassan, M.A. (2015). Hydrothermal pretreatment enhanced enzymatic hydrolysis and glucose production from oil palm biomass. *Bioresource Technology*. 176: 142-148.	50
10	Meesuk, V., Vojinovic, Z., Mynett, A.E., Abdullah, A.F. (2015). Urban flood modelling combining top-view LiDAR data with ground-view SfM observations. *Advances in Water Resources*. 75: 105-117.	46
11	Bui, D.T., Pradhan, B., Revhaug, I., Nguyen, D.B., Pham, H.V., Bui, Q.N. (2015). A novel hybrid evidential belief function-based fuzzy logic model in spatial prediction of rainfall-induced shallow landslides in the Lang Son city area (Vietnam). *Geomatics, Natural Hazards and Risk*. 6(3): 243-271.	44
12	Anyika, C., Abdul Majid, Z., Ibrahim, Z., Zakaria, M.P., Yahya, A. (2015). The impact of biochars on sorption and biodegradation of polycyclic aromatic hydrocarbons in soils—a review. *Environmental Science and Pollution Research*. 22(5): 3314-3341.	42
13	Kadier, A., Abdeshahian, P., Simayi, Y., Ismail, M., Hamid, A.A., Kalil, M.S. (2015). Grey relational analysis for comparative assessment of different cathode materials in microbial electrolysis cells. *Energy*. 90: 1556-1562.	40
13	Ahmad, B., Rehman, M.U., Amin, I., Arif, A., Rasool, S., Bhat, S.A., Afzal, I., Hussain, I., Bilal, S., Mir, M.U.R. (2015). A Review on Pharmacological Properties of Zingerone (4-(4-Hydroxy-3-methoxyphenyl)-2-butanone). *Scientific World Journal*. 2015: 1-7.	40
14	Lim, P.N., Wu, T.Y., Clarke, C., Nik Daud, N.N. (2015). A potential bioconversion of empty fruit bunches into organic fertilizer using Eudrilus eugeniae. *International Journal of Environmental Science and Technology*. 12(8): 2533-2544.	39
14	Belkhiri, L., Narany, T.S. (2015). Using Multivariate Statistical Analysis, Geostatistical Techniques and Structural Equation Modeling to Identify Spatial Variability of Groundwater Quality. *Water Resources Management*. 29(6): 2073-2089.	39
15	Ghanem, O.B., Mutalib, M., El-Harbawi, M., Gonfa, G., Kait, C.F., Alitheen, N.B.M., Lévêque, J.-M. (2015). Effect of imidazolium-based ionic liquids on bacterial growth inhibition investigated via experimental and QSAR modelling studies. *Journal of Hazardous Materials*. 297: 198-206.	38
15	Aljuboori, A.H.R., Idris, A., Al-joubory, H.H.R., Uemura, Y., Ibn	38

	Abubakar, B.S.U. (2015). Flocculation behavior and mechanism of bioflocculant produced by Aspergillus flavus. *Journal of Environmental Management*. 150: 466-471.	
16	Thiruvenkadam, S., Izhar, S., Yoshida, H., Danquah, M.K., Harun, R. (2015). Process application of Subcritical Water Extraction (SWE) for algal bio-products and biofuels production. *Applied Energy*. 154: 815-828.	37
17	Asikin-Mijan, N., Taufiq-Yap, Y.H., Lee, H.V. (2015). Synthesis of clamshell derived Ca(OH)<inf>2</inf> nano-particles via simple surfactant-hydration treatment. *Chemical Engineering Journal*. 262: 1043-1051.	35
17	Azhar, B., Saadun, N., Puan, C.L., Kamarudin, N., Aziz, N., Nurhidayu, S., Fischer, J. (2015). Promoting landscape heterogeneity to improve the biodiversity benefits of certified palm oil production: Evidence from Peninsular Malaysia. *Global Ecology and Conservation*. 3: 553-561.	35
18	Sarker, M.S.H., Ibrahim, M.N., Abdul Aziz, N., Punan, M.S. (2015). Energy and exergy analysis of industrial fluidized bed drying of paddy. *Energy*. 84: 131-138.	34
18	Jayabal, S., Pandikumar, A., Lim, H.N., Ramaraj, R., Sun, T., Huang, N.M. (2015). A gold nanorod-based localized surface plasmon resonance platform for the detection of environmentally toxic metal ions. *Analyst*. 140(8): 2540-2555.	34
18	Zakaria, M.R., Norrrahim, M.N.F., Hirata, S., Hassan, M.A. (2015). Hydrothermal and wet disk milling pretreatment for high conversion of biosugars from oil palm mesocarp fiber. *Bioresource Technology*. 181: 263-269.	34
18	Al-Oqla, F.M., Salit, M.S., Ishak, M.R., Aziz, N.A. (2015). A novel evaluation tool for enhancing the selection of natural fibers for polymeric composites based on fiber moisture content criterion. *BioResources*. 10(1): 299-312.	34
19	Gledhill, M., Achterberg, E.P., Li, K., Mohamed, K.N., Rijkenberg, M.J.A. (2015). Influence of ocean acidification on the complexation of iron and copper by organic ligands in estuarine waters. *Marine Chemistry*. 177: 421-433.	31
20	Youssef, A.M., Pradhan, B., Pourghasemi, H.R., Abdullahi, S. (2015). Landslide susceptibility assessment at Wadi Jawrah Basin, Jizan region, Saudi Arabia using two bivariate models in GIS. *Geosciences Journal*. 19(3): 449-469.	30
20	Yuswir, N.S., Praveena, S.M., Aris, A.Z., Ismail, S.N.S., Hashim, Z. (2015). Health risk assessment of heavy metal in urban surface soil (Klang District, Malaysia). *Bulletin of Environmental Contamination and Toxicology*. 95(1): 80-89.	30

Penerbitan Pegawai UPM tahun 2015 dalam bidang Sains Alam Sekitar -465 penerbitan

UPM Officers publications in 2015 in the Field of Environmental Sciences - 465 publications

Jadual 38. Dua Puluh Petikan Teratas Bagi Penerbitan Pegawai UPM Tahun 2016
Bidang Sains Alam Sekitar

Table 38. Top Twenty Citations of UPM Officers Publications Published 2016 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Lee, K.M., Lai, C.W., Ngai, K.S., Juan, J.C. (2016). Recent developments of zinc oxide based photocatalyst in water treatment technology: A review. *Water Research*. 88: 428-448.	588
2	Pham, B.T., Pradhan, B., Tien Bui, D., Prakash, I., Dholakia, M.B. (2016). A comparative study of different machine learning methods for landslide susceptibility assessment: A case study of Uttarakhand area (India). *Environmental Modelling and Software*. 84: 240-250.	103
3	Tien Bui, D., Pradhan, B., Nampak, H., Bui, Q.-T., Tran, Q.-A., Nguyen, Q.-P. (2016). Hybrid artificial intelligence approach based on neural fuzzy inference model and metaheuristic optimization for flood susceptibilitgy modeling in a high-frequency tropical cyclone area using GIS. *Journal of Hydrology*. 540: 317-330.	67
4	Tien Bui, D., Ho, T.-C., Pradhan, B., Pham, B.-T., Nhu, V.-H., Revhaug, I. (2016). GIS-based modeling of rainfall-induced landslides using data mining-based functional trees classifier with AdaBoost, Bagging, and MultiBoost ensemble frameworks. *Environmental Earth Sciences*. 75(14): 1-22.	61
5	Aghdam, I.N., Varzandeh, M.H.M., Pradhan, B. (2016). Landslide susceptibility mapping using an ensemble statistical index (Wi) and adaptive neuro-fuzzy inference system (ANFIS) model at Alborz Mountains (Iran). *Environmental Earth Sciences*. 75(7): 1-20.	53
6	Lam, S.S., Wan Mahari, W.A., Cheng, C.K., Omar, R., Chong, C.T., Chase, H.A. (2016). Recovery of diesel-like fuel from waste palm oil by pyrolysis using a microwave heated bed of activated carbon. *Energy*. 115: 791-799.	44
7	Arunkumar, T., Velraj, R., Denkenberger, D., Sathyamurthy, R., Vinothkumar, K., Porkumaran, K., Ahsan, A. (2016). Effect of heat removal on tubular solar desalting system. *Desalination*. 379: 24-33.	42
8	Karami, A., Romano, N., Galloway, T., Hamzah, H. (2016). Virgin microplastics cause toxicity and modulate the impacts of phenanthrene on biomarker responses in African catfish (Clarias gariepinus). *Environmental Research*. 151: 58-70.	41
8	Aburas, M.M., Ho, Y.M., Ramli, M.F., Ash'aari, Z.H. (2016). The simulation and prediction of spatio-temporal urban growth trends	41

	using cellular automata models: A review. *International Journal of Applied Earth Observation and Geoinformation*. 52: 380-389.	
9	Hong, H., Naghibi, S.A., Pourghasemi, H.R., Pradhan, B. (2016). GIS-based landslide spatial modeling in Ganzhou City, China. *Arabian Journal of Geosciences*. 9(2): 1-26.	40
9	Hong, H., Pradhan, B., Jebur, M.N., Bui, D.T., Xu, C., Akgun, A. (2016). Spatial prediction of landslide hazard at the Luxi area (China) using support vector machines. *Environmental Earth Sciences*. 75(1): 1-14.	40
10	Omar, T.F.T., Ahmad, A., Aris, A.Z., Yusoff, F.M. (2016). Endocrine disrupting compounds (EDCs) in environmental matrices: Review of analytical strategies for pharmaceuticals, estrogenic hormones, and alkylphenol compounds. *TrAC - Trends in Analytical Chemistry*. 85: 241-259.	37
10	Mojiri, A., Ziyang, L., Tajuddin, R.M., Farraji, H., Alifar, N. (2016). Co-treatment of landfill leachate and municipal wastewater using the ZELIAC/zeolite constructed wetland system. *Journal of Environmental Management*. 166: 124-130.	37
11	Pandeya, B., Buytaert, W., Zulkafli, Z., Karpouzoglou, T., Mao, F., Hannah, D.M. (2016). A comparative analysis of ecosystem services valuation approaches for application at the local scale and in data scarce regions. *Ecosystem Services*. 22: 250-259.	33
11	Ali, H.S., Law, S.H., Zannah, T.I. (2016). Dynamic impact of urbanization, economic growth, energy consumption, and trade openness on CO <inf>2</inf> emissions in Nigeria. *Environmental Science and Pollution Research*. 23(12): 12435-12443.	33
12	Pourghasemi, H.R., Beheshtirad, M., Pradhan, B. (2016). A comparative assessment of prediction capabilities of modified analytical hierarchy process (M-AHP) and Mamdani fuzzy logic models using Netcad-GIS for forest fire susceptibility mapping. *Geomatics, Natural Hazards and Risk*. 7(2): 861-885.	30
13	Baum, T., Cheung, C., Kong, H., Kralj, A., Mooney, S., Thi Thanh, H.N., Ramachandran, S., Ružic, M.D., Siow, M.L. (2016). Sustainability and the tourism and hospitality workforce: A thematic analysis. *Sustainability (Switzerland)*. 8(8): 1-21.	29
13	Jahromi, M.F., Altaher, Y.W., Shokryazdan, P., Ebrahimi, R., Ebrahimi, M., Idrus, Z., Tufarelli, V., Liang, J.B. (2016). Dietary supplementation of a mixture of Lactobacillus strains enhances performance of broiler chickens raised under heat stress conditions. *International Journal of Biometeorology*. 60(7): 1099-1110.	29
13	Karimi Estahbanati, M.R., Ahsan, A., Feilizadeh, M., Jafarpur, K., Ashrafmansouri, S.-S., Feilizadeh, M. (2016). Theoretical and experimental investigation on internal reflectors in a single-slope solar still. *Applied Energy*. 165: 537-547.	29
14	Delbari, S.A., Ng, S.I., Aziz, Y.A., Ho, J.A. (2016). An investigation of	28

	key competitiveness indicators and drivers of full-service airlines using Delphi and AHP techniques. *Journal of Air Transport Management*. 52: 23-34.	
15	Alswat, A.A., Ahmad, M.B., Saleh, T.A. (2016). Zeolite modified with copper oxide and iron oxide for lead and arsenic adsorption from aqueous solutions. *Journal of Water Supply: Research and Technology - AQUA*. 65(6): 465-479.	27
15	Asr, M.T., Nezhad, E.Z., Mustapha, F., Wiriadidjaja, S. (2016). Study on start-up characteristics of H-Darrieus vertical axis wind turbines comprising NACA 4-digit series blade airfoils. *Energy*. 112: 528-537.	27
15	Youssef, A.M., Pradhan, B., Sefry, S.A. (2016). Flash flood susceptibility assessment in Jeddah city (Kingdom of Saudi Arabia) using bivariate and multivariate statistical models. *Environmental Earth Sciences*. 75(1): 1-16.	27
16	Manz, B., Buytaert, W., Zulkafli, Z., Lavado, W., Willems, B., Robles, L.A., Rodríguez-Sánchez, J.-P. (2016). High-resolution satellite-gauge merged precipitation climatologies of the tropical andes. *Journal of Geophysical Research*. 121(3): 1190-1207.	26
16	Sanusi, R., Johnstone, D., May, P., Livesley, S.J. (2016). Street orientation and side of the street greatly influence the microclimatic benefits street trees can provide in summer. *Journal of Environmental Quality*. 45(1): 167-174.	26
16	Lokman, I.M., Goto, M., Rashid, U., Taufiq-Yap, Y.H. (2016). Sub- and supercritical esterification of palm fatty acid distillate with carbohydrate-derived solid acid catalyst. *Chemical Engineering Journal*. 284: 872-878.	26
17	Foo, C.Y., Lim, H.N., Pandikumar, A., Huang, N.M., Ng, Y.H. (2016). Utilization of reduced graphene oxide/cadmium sulfide-modified carbon cloth for visible-light-prompt photoelectrochemical sensor for copper (II) ions. *Journal of Hazardous Materials*. 304: 400-408.	25
18	Tan, S.F., Masoumi, H.R.F., Karjiban, R.A., Stanslas, J., Kirby, B.P., Basri, M., Basri, H.B. (2016). Ultrasonic emulsification of parenteral valproic acid-loaded nanoemulsion with response surface methodology and evaluation of its stability. *Ultrasonics Sonochemistry*. 29: 299-308.	23
18	Masood, N., Zakaria, M.P., Halimoon, N., Aris, A.Z., Magam, S.M., Kannan, N., Mustafa, S., Ali, M.M., Keshavarzifard, M., Vaezzadeh, V., Alkhadher, S.A.A., Al-Odaini, N.A. (2016). Anthropogenic waste indicators (AWIs), particularly PAHs and LABs, in Malaysian sediments: Application of aquatic environment for identifying anthropogenic pollution. *Marine Pollution Bulletin*. 102(1): 160-175.	23
19	Rizeei, H.M., Saharkhiz, M.A., Pradhan, B., Ahmad, N. (2016). Soil erosion prediction based on land cover dynamics at the Semenyih watershed in Malaysia using LTM and USLE models. *Geocarto International*. 31(10): 1158-1177.	22

19	Nkem, B.M., Halimoon, N., Yusoff, F.M., Johari, W.L.W., Zakaria, M.P., Medipally, S.R., Kannan, N. (2016). Isolation, identification and diesel-oil biodegradation capacities of indigenous hydrocarbon-degrading strains of Cellulosimicrobium cellulans and Acinetobacter baumannii from tarball at Terengganu beach, Malaysia. *Marine Pollution Bulletin*. 107(1): 261-268.	22
19	Sangchini, E.K., Emami, S.N., Tahmasebipour, N., Pourghasemi, H.R., Naghibi, S.A., Arami, S.A., Pradhan, B. (2016). Assessment and comparison of combined bivariate and AHP models with logistic regression for landslide susceptibility mapping in the Chaharmahal-e-Bakhtiari Province, Iran. *Arabian Journal of Geosciences*. 9(3): 1-15.	22
19	Salman, S.D., Leman, Z., Sultan, M.T.H., Ishak, M.R., Cardona, F. (2016). Ballistic impact resistance of plain woven kenaf/aramid reinforced polyvinyl butyral laminated hybrid composite. *BioResources*. 11(3): 7282-7295.	22
19	Sharba, M.J., Leman, Z., Sultan, M.T.H., Ishak, M.R., Azmah Hanim, M.A. (2016). Partial replacement of glass fiber by woven kenaf in hybrid composites and its effect on monotonic and fatigue properties. *BioResources*. 11(1): 2665-2683.	22
19	Sharba, M.J., Leman, Z., Sultan, M.T.H., Ishak, M.R., Azmah Hanim, M.A. (2016). Effects of kenaf fiber orientation on mechanical properties and fatigue life of glass/kenaf hybrid composites. *BioResources*. 11(1): 1448-1465.	22
20	Shah, A.U.M., Sultan, M.T.H., Jawaid, M., Cardona, F., Talib, A.R.A. (2016). A review on the tensile properties of bamboo fiber reinforced polymer composites. *BioResources*. 11(4): 10654-10676.	21

Penerbitan Pegawai UPM tahun 2016 dalam bidang Sains Alam Sekitar - 438 penerbitan
UPM Officers publications in 2016 in the Field of Environmental Sciences - 438 publications

Jadual 39. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2017 Bidang Sains Alam Sekitar

Table 39. Top Twenty Citations of UPM Officers Publications Published in 2017 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Bathrellos, G.D., Skilodimou, H.D., Chousianitis, K., Youssef, A.M., Pradhan, B. (2017). Suitability estimation for urban development using multi-hazard assessment map. *Science of the Total Environment*. 575: 119-134.	78
2	Hong, H., Chen, W., Xu, C., Youssef, A.M., Pradhan, B., Tien Bui, D. (2017). Rainfall-induced landslide susceptibility assessment at the Chongren area (China) using frequency ratio, certainty factor, and index of entropy. *Geocarto International*. 32(2): 139-154.	59
3	Tien Bui, D., Bui, Q.-T., Nguyen, Q.-P., Pradhan, B., Nampak, H., Trinh, P.T. (2017). A hybrid artificial intelligence approach using GIS-based neural-fuzzy inference system and particle swarm optimization for forest fire susceptibility modeling at a tropical area. *Agricultural and Forest Meteorology*. 233: 32-44.	57
4	Ahmad, M.S., Mehmood, M.A., Al Ayed, O.S., Ye, G., Luo, H., Ibrahim, M., Rashid, U., Arbi Nehdi, I., Qadir, G. (2017). Kinetic analyses and pyrolytic behavior of Para grass (Urochloa mutica) for its bioenergy potential. *Bioresource Technology*. 224: 708-713.	51
5	Karami, A., Golieskardi, A., Choo, C.K., Romano, N., Ho, Y.B., Salamatinia, B. (2017). A high-performance protocol for extraction of microplastics in fish. *Science of the Total Environment*. 578: 485-494.	50
6	Sani, H.A., Ahmad, M.B., Hussein, M.Z., Ibrahim, N.A., Musa, A., Saleh, T.A. (2017). Nanocomposite of ZnO with montmorillonite for removal of lead and copper ions from aqueous solutions. *Process Safety and Environmental Protection*. 109: 97-105.	40
7	Chen, W., Liao, X., Wu, Y., Liang, J.B., Mi, J., Huang, J., Zhang, H., Wu, Y., Qiao, Z., Li, X., Wang, Y. (2017). Effects of different types of biochar on methane and ammonia mitigation during layer manure composting. *Waste Management*. 61: 506-515.	37
8	Hudson, L.N., Newbold, T., Contu, S., Hill, S.L.L., Lysenko, I., De Palma, A., Phillips, H.R.P., Alhusseini, T.I., Bedford, F.E., Bennett, D.J., Booth, H., Burton, V.J., Chng, C.W.T., Choimes, A., Correia, D.L.P., Day, J., Echeverría-Londoño, S., Emerson, S.R., Gao, D., Garon, M., Harrison, M.L.K., Ingram, D.J., Jung, M., Kemp, V., Kirkpatrick, L., Martin, C.D., Pan, Y., Pask-Hale, G.D., Pynegar, E.L.,	35

	Robinson, A.N., Sanchez-Ortiz, K., Senior, R.A., Simmons, B.I., White, H.J., Zhang, H., Aben, J., Abrahamczyk, S., Adum, G.B., Aguilar-Barquero, V., Aizen, M.A., Albertos, B., Alcala, E.L., del Mar Alguacil, M., Alignier, A., Ancrenaz, M., Andersen, A.N., Arbeláez-Cortés, E., Armbrecht, I., Arroyo-Rodríguez, V., Aumann, T., Axmacher, J.C., Azhar, B., Azpiroz, A.B., Baeten, L., Bakayoko, A., Báldi, A., Banks, J.E., Baral, S.K., Barlow, J., Barratt, B.I.P., Barrico, L., Bartolommei, P., Barton, D.M., Basset, Y., Batáry, P., Bates, A.J., Baur, B., Bayne, E.M., Beja, P., Benedick, S., Berg, Å., Bernard, H., Berry, N.J., Bhatt, D., Bicknell, J.E., Bihn, J.H., Blake, R.J., Bobo, K.S., Bóçon, R., Boekhout, T., Böhning-Gaese, K., Bonham, K.J., Borges, P.A.V., Borges, S.H., Boutin, C., Bouyer, J., Bragagnolo, C., Brandt, J.S., Brearley, F.Q., Brito, I., Bros, V., Brunet, J., Buczkowski, G., Buddle, C.M., Bugter, R., Buscardo, E., Buse, J., Cabra-García, J., Cáceres, N.C., Cagle, N.L., Calviño-Cancela, M., Cameron, S.A., Cancello, E.M., Caparrós, R., Cardoso, P., Carpenter, D., Carrijo, T.F., Carvalho, A.L., Cassano, C.R., Castro, H., Castro-Luna, A.A., Rolando, C.B., Cerezo, A., Chapman, K.A., Chauvat, M., Christensen, M., Clarke, F.M., Cleary, D.F.R., Colombo, G., Connop, S.P., Craig, M.D., Cruz-López, L., Cunningham, S.A., D'Aniello, B., D'Cruze, N., da Silva, P.G., Dallimer, M., Danquah, E., Darvill, B., Dauber, J., Davis, A.L.V., Dawson, J., de Sassi, C., de Thoisy, B., Deheuvels, O., Dejean, A., Devineau, J.-L., Diekötter, T., Dolia, J.V., Domínguez, E., Dominguez-Haydar, Y., Dorn, S., Draper, I., Dreber, N., Dumont, B., Dures, S.G., Dynesius, M., Edenius, L., Eggleton, P., Eigenbrod, F., Elek, Z., Entling, M.H., Esler, K.J., de Lima, R.F., Faruk, A., Farwig, N., Fayle, T.M., Felicioli, A., Felton, A.M., Fensham, R.J., Fernandez, I.C., Ferreira, C.C., Ficetola, G.F., Fiera, C., Filgueiras, B.K.C., Fırıncıoğlu, H.K., Flaspohler, D., Floren, A., Fonte, S.J., Fournier, A., Fowler, R.E., Franzén, M., Fraser, L.H., Fredriksson, G.M., Freire, G.B., Frizzo, T.L.M., Fukuda, D., Furlani, D., Gaigher, R., Ganzhorn, J.U., García, K.P., Garcia-R, J.C., Garden, J.G., Garilleti, R., Ge, B.-M., Gendreau-Berthiaume, B., Gerard, P.J., Gheler-Costa, C., Gilbert, B., Giordani, P., Giordano, S., Golodets, C., Gomes, L.G.L., Gould, R.K., Goulson, D., Gove, A.D., Granjon, L., Grass, I., Gray, C.L., Grogan, J., Gu, W., Guardiola, M., Gunawardene, N.R., Gutierrez, A.G., Gutiérrez-Lamus, D.L., Haarmeyer, D.H., Hanley, M.E., Hanson, T., Hashim, N.R., Hassan, S.N., Hatfield, R.G., Hawes, J.E., Hayward, M.W., Hébert, C., Helden, A.J., Henden, J.-A., Henschel, P., Hernández, L., Herrera, J.P., Herrmann, F., Herzog, F., Higuera-Diaz, D., Hilje, B., Höfer, H., Hoffmann, A., Horgan, F.G., Hornung, E., Horváth, R., Hylander, K., Isaacs-Cubides, P., Ishida, H., Ishitani, M., Jacobs, C.T., Jaramillo, V.J., Jauker, B., Hernández, F.J., Johnson, M.F., Jolli, V., Jonsell, M., Juliani, S.N., Jung, T.S., Kapoor, V., Kappes, H., Kati, V., Katovai, E.,	

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	Dewenter, I., Stouffer, P.C., Stout, J.C., Strauch, A.M., Struebig, M.J., Su, Z., Suarez-Rubio, M., Sugiura, S., Summerville, K.S., Sung, Y.-H., Sutrisno, H., Svenning, J.-C., Teder, T., Threlfall, C.G., Tiitsaar, A., Todd, J.H., Tonietto, R.K., Torre, I., Tóthmérész, B., Tscharntke, T., Turner, E.C., Tylianakis, J.M., Uehara-Prado, M., Urbina-Cardona, N., Vallan, D., Vanbergen, A.J., Vasconcelos, H.L., Vassilev, K., Verboven, H.A.F., Verdasca, M.J., Verdú, J.R., Vergara, C.H., Vergara, P.M., Verhulst, J., Virgilio, M., Vu, L.V., Waite, E.M., Walker, T.R., Wang, H.-F., Wang, Y., Watling, J.I., Weller, B., Wells, K., Westphal, C., Wiafe, E.D., Williams, C.D., Willig, M.R., Woinarski, J.C.Z., Wolf, J.H.D., Wolters, V., Woodcock, B.A., Wu, J., Wunderle, J.M., Yamaura, Y., Yoshikura, S., Yu, D.W., Zaitsev, A.S., Zeidler, J., Zou, F., Collen, B., Ewers, R.M., Mace, G.M., Purves, D.W., Scharlemann, J.P.W., Purvis, A. (2017). The database of the PREDICTS (Projecting Responses of Ecological Diversity In Changing Terrestrial Systems) project. *Ecology and Evolution*. 7(1): 145-188.	
9	Mojaddadi, H., Pradhan, B., Nampak, H., Ahmad, N., Ghazali, A.H.B. (2017). Ensemble machine-learning-based geospatial approach for flood risk assessment using multi-sensor remote-sensing data and GIS. *Geomatics, Natural Hazards and Risk*. 8(2): 1080-1102.	34
10	Naghibi, S.A., Moghaddam, D.D., Kalantar, B., Pradhan, B., Kisi, O. (2017). A comparative assessment of GIS-based data mining models and a novel ensemble model in groundwater well potential mapping. *Journal of Hydrology*. 548: 471-483.	33
10	Mehmood, M.A., Ibrahim, M., Rashid, U., Nawaz, M., Ali, S., Hussain, A., Gull, M. (2017). Biomass production for bioenergy using marginal lands. *Sustainable Production and Consumption*. 9: 3-21.	33
11	Aburas, M.M., Ho, Y.M., Ramli, M.F., Ash'aari, Z.H. (2017). Improving the capability of an integrated CA-Markov model to simulate spatio-temporal urban growth trends using an Analytical Hierarchy Process and Frequency Ratio. *International Journal of Applied Earth Observation and Geoinformation*. 59: 65-78.	32
11	Wijedasa, L.S., Jauhiainen, J., Könönen, M., Lampela, M., Vasander, H., Leblanc, M.-C., Evers, S., Smith, T.E.L., Yule, C.M., Varkkey, H., Lupascu, M., Parish, F., Singleton, I., Clements, G.R., Aziz, S.A., Harrison, M.E., Cheyne, S., Anshari, G.Z., Meijaard, E., Goldstein, J.E., Waldron, S., Hergoualc'h, K., Dommain, R., Frolking, S., Evans, C.D., Posa, M.R.C., Glaser, P.H., Suryadiputra, N., Lubis, R., Santika, T., Padfield, R., Kurnianto, S., Hadisiswoyo, P., Lim, T.W., Page, S.E., Gauci, V., Van Der Meer, P.J., Buckland, H., Garnier, F., Samuel, M.K., Choo, L.N.L.K., O'Reilly, P., Warren, M., Suksuwan, S., Sumarga, E., Jain, A., Laurance, W.F., Couwenberg, J., Joosten, H., Vernimmen, R., Hooijer, A., Malins, C., Cochrane, M.A., Perumal,	32

	B., Siegert, F., Peh, K.S.-H., Comeau, L.-P., Verchot, L., Harvey, C.F., Cobb, A., Jaafar, Z., Wösten, H., Manuri, S., Müller, M., Giesen, W., Phelps, J., Yong, D.L., Silvius, M., Wedeux, B.M.M., Hoyt, A., Osaki, M., Hirano, T., Takahashi, H., Kohyama, T.S., Haraguchi, A., Nugroho, N.P., Coomes, D.A., Quoi, L.P., Dohong, A., Gunawan, H., Gaveau, D.L.A., Langner, A., Lim, F.K.S., Edwards, D.P., Giam, X., Van Der Werf, G., Carmenta, R., Verwer, C.C., Gibson, L., Gandois, L., Graham, L.L.B., Regalino, J., Wich, S.A., Rieley, J., Kettridge, N., Brown, C., Pirard, R., Moore, S., Capilla, B.R., Ballhorn, U., Ho, H.C., Hoscilo, A., Lohberger, S., Evans, T.A., Yulianti, N., Blackham, G., Onrizal, Husson, S., Murdiyarso, D., Pangala, S., Cole, L.E.S., Tacconi, L., Segah, H., Tonoto, P., Lee, J.S.H., Schmilewski, G., Wulffraat, S., Putra, E.I., Cattau, M.E., Clymo, R.S., Morrison, R., Mujahid, A., Miettinen, J., Liew, S.C., Valpola, S., Wilson, D., D'Arcy, L., Gerding, M., Sundari, S., Thornton, S.A., Kalisz, B., Chapman, S.J., Su, A.S.M., Basuki, I., Itoh, M., Traeholt, C., Sloan, S., Sayok, A.K., Andersen, R. (2017). Denial of long-term issues with agriculture on tropical peatlands will have devastating consequences. *Global Change Biology*. 23(3): 977-982.	
12	Moh, Y., Abd Manaf, L. (2017). Solid waste management transformation and future challenges of source separation and recycling practice in Malaysia. *Resources, Conservation and Recycling*. 116: 1-14.	31
13	Radzuan, M.N., Banat, I.M., Winterburn, J. (2017). Production and characterization of rhamnolipid using palm oil agricultural refinery waste. *Bioresource Technology*. 225: 99-105.	30
14	Hong, H., Liu, J., Zhu, A.-X., Shahabi, H., Pham, B.T., Chen, W., Pradhan, B., Bui, D.T. (2017). A novel hybrid integration model using support vector machines and random subspace for weather-triggered landslide susceptibility assessment in the Wuning area (China). *Environmental Earth Sciences*. 76(19): 1-19.	29
15	Azhar, B., Saadun, N., Prideaux, M., Lindenmayer, D.B. (2017). The global palm oil sector must change to save biodiversity and improve food security in the tropics. *Journal of Environmental Management*. 203: 457-466.	26
16	Sidek, M.H.M., Azis, N., Hasan, W.Z.W., Ab Kadir, M.Z.A., Shafie, S., Radzi, M.A.M. (2017). Automated positioning dual-axis solar tracking system with precision elevation and azimuth angle control. *Energy*. 124: 160-170.	24
17	Ilyas, R.A., Sapuan, S.M., Ishak, M.R., Zainudin, E.S. (2017). Effect of delignification on the physical, thermal, chemical, and structural properties of sugar palm fibre. *BioResources*. 12(4): 8734-8754.	23
18	Zakikhani, P., Zahari, R., Sultan, M.T.H., Majid, D.L. (2017). Morphological, mechanical, and physical properties of four bamboo species. *BioResources*. 12(2): 2479-2495.	22

19	Sheikhy Narany, T., Aris, A.Z., Sefie, A., Keesstra, S. (2017). Detecting and predicting the impact of land use changes on groundwater quality, a case study in Northern Kelantan, Malaysia. *Science of the Total Environment*. 0: 844-853.	20
20	Karami, A. (2017). Gaps in aquatic toxicological studies of microplastics. *Chemosphere*. 184: 841-848.	19
20	Alshaheri, A.A., Tahir, M.I.M., Rahman, M.B.A., Ravoof, T.B.S.A., Saleh, T.A. (2017). Catalytic oxidation of cyclohexane using transition metal complexes of dithiocarbazate Schiff base. *Chemical Engineering Journal*. 327: 423-430.	19
20	Karami, A., Groman, D.B., Wilson, S.P., Ismail, P., Neela, V.K. (2017). Biomarker responses in zebrafish (Danio rerio) larvae exposed to pristine low-density polyethylene fragments. *Environmental Pollution*. 223: 466-475.	19

Penerbitan Pegawai UPM tahun 2017 dalam bidang Sains Alam Sekitar - 488 penerbitan
UPM Officers publications in 2017 in the Field of Environmental Sciences - 488 publications

Jadual 40. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2018 Bidang Sains Alam Sekitar

Table 40. Top Twenty Citations of UPM Officers Publications Published in 2018 in the Field of Environmental Sciences

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Sanjay, M.R., Madhu, P., Jawaid, M., Senthamaraikannan, P., Senthil, S., Pradeep, S. (2018). Characterization and properties of natural fiber polymer composites: A comprehensive review. *Journal of Cleaner Production*. 172: 566-581.	127
2	Kalantar, B., Pradhan, B., Amir Naghibi, S., Motevalli, A., Mansor, S. (2018). Assessment of the effects of training data selection on the landslide susceptibility mapping: a comparison between support vector machine (SVM), logistic regression (LR) and artificial neural networks (ANN). *Geomatics, Natural Hazards and Risk*. 9(1): 49-69.	31
3	Mohamed, M.A., M. Zain, M.F., Jeffery Minggu, L., Kassim, M.B., Saidina Amin, N.A., W. Salleh, W.N., Salehmin, M.N.I., Md Nasir, M.F., Mohd Hir, Z.A. (2018). Constructing bio-templated 3D porous microtubular C-doped g-C <inf>3</inf> N <inf>4</inf> with tunable band structure and enhanced charge carrier separation. *Applied Catalysis B: Environmental*. 236: 265-279.	29
4	Golkarian, A., Naghibi, S.A., Kalantar, B., Pradhan, B. (2018). Groundwater potential mapping using C5.0, random forest, and multivariate adaptive regression spline models in GIS. *Environmental Monitoring and Assessment*. 190(3): 1-16.	25
4	Rehan, M., Gardy, J., Demirbas, A., Rashid, U., Budzianowski, W.M., Pant, D., Nizami, A.S. (2018). Waste to biodiesel: A preliminary assessment for Saudi Arabia. *Bioresource Technology*. 250: 17-25.	25
5	Muthu Manokar, A., Prince Winston, D., Kabeel, A.E., El-Agouz, S.A., Sathyamurthy, R., Arunkumar, T., Madhu, B., Ahsan, A. (2018). Integrated PV/T solar still- A mini-review. *Desalination*. 435: 259-267.	23
6	Karami, A., Golieskardi, A., Choo, C.K., Larat, V., Karbalaei, S., Salamatinia, B. (2018). Microplastic and mesoplastic contamination in canned sardines and sprats. *Science of the Total Environment*. 612: 1380-1386.	19
7	Lim, K.C., Yusoff, F.M., Shariff, M., Kamarudin, M.S. (2018). Astaxanthin as feed supplement in aquatic animals. *Reviews in Aquaculture*. 10(3): 738-773.	17
7	Latif, M.T., Othman, M., Idris, N., Juneng, L., Abdullah, A.M., Hamzah, W.P., Khan, M.F., Nik Sulaiman, N.M., Jewaratnam, J.,	17

	Aghamohammadi, N., Sahani, M., Xiang, C.J., Ahamad, F., Amil, N., Darus, M., Varkkey, H., Tangang, F., Jaafar, A.B. (2018). Impact of regional haze towards air quality in Malaysia: A review. *Atmospheric Environment*. 177: 28-44.	
8	Asikin-Mijan, N., Lee, H.V., Abdulkareem-Alsultan, G., Afandi, A., Taufiq-Yap, Y.H. (2018). Production of green diesel via cleaner catalytic deoxygenation of Jatropha curcas oil. *Journal of Cleaner Production*. 167: 1048-1059.	14
9	Mansir, N., Teo, S.H., Rabiu, I., Taufiq-Yap, Y.H. (2018). Effective biodiesel synthesis from waste cooking oil and biomass residue solid green catalyst. *Chemical Engineering Journal*. 347: 137-144.	13
9	Ranjbar Jafarabadi, A., Riyahi Bakhtiari, A., Aliabadian, M., Laetitia, H., Shadmehri Toosi, A., Yap, C.K. (2018). First report of bioaccumulation and bioconcentration of aliphatic hydrocarbons (AHs) and persistent organic pollutants (PAHs, PCBs and PCNs) and their effects on alcyonacea and scleractinian corals and their endosymbiotic algae from the Persian Gulf, Iran. *Science of the Total Environment*. 627: 141-157.	13
9	Asim, M., Jawaid, M., Abdan, K., Ishak, M.R. (2018). The Effect of Silane Treated Fibre Loading on Mechanical Properties of Pineapple Leaf/Kenaf Fibre Filler Phenolic Composites. *Journal of Polymers and the Environment*. 26(4): 1520-1527.	13
9	Teo, S.H., Islam, A., Ng, C.H., Mansir, N., Ma, T., Thomas Choong, S.Y., Taufiq-Yap, Y.H. (2018). Methoxy-functionalized mesostructured stable carbon catalysts for effective biodiesel production from non-edible feedstock. *Chemical Engineering Journal*. 334: 1851-1868.	13
10	Praveena, S.M., Shaifuddin, S.N.M., Sukiman, S., Nasir, F.A.M., Hanafi, Z., Kamarudin, N., Ismail, T.H.T., Aris, A.Z. (2018). Pharmaceuticals residues in selected tropical surface water bodies from Selangor (Malaysia): Occurrence and potential risk assessments. *Science of the Total Environment*. 642: 230-240.	12
11	Abdulkareem, J.H., Pradhan, B., Sulaiman, W.N.A., Jamil, N.R. (2018). Quantification of Runoff as Influenced by Morphometric Characteristics in a Rural Complex Catchment. *Earth Systems and Environment*. 2(1): 145-162.	11
12	Low, S.K., Tan, M.C., Chin, N.L. (2018). Effect of ultrasound pre-treatment on adsorbent in dye adsorption compared with ultrasound simultaneous adsorption. *Ultrasonics Sonochemistry*. 48: 64-70.	10
12	Paterson, R.R.M., Lima, N. (2018). Climate change affecting oil palm agronomy, and oil palm cultivation increasing climate change, require amelioration. *Ecology and Evolution*. 8(1): 452-461.	10
13	Nasyitah Sobihah, N., Ahmad Zaharin, A., Khairul Nizam, M., Ley Juen, L., Kyoung-Woong, K. (2018). Bioaccumulation of heavy	8

	metals in maricultured fish, Lates calcarifer (Barramudi), Lutjanus campechanus (red snapper) and Lutjanus griseus (grey snapper). *Chemosphere*. 197: 318-324.	
14	Koyama, M., Nagao, N., Syukri, F., Rahim, A.A., Kamarudin, M.S., Toda, T., Mitsuhashi, T., Nakasaki, K. (2018). Effect of temperature on thermophilic composting of aquaculture sludge: NH<inf>3</inf> recovery, nitrogen mass balance, and microbial community dynamics. *Bioresource Technology*. 265: 207-213.	7
14	Abdulkareem, J.H., Sulaiman, W.N.A., Pradhan, B., Jamil, N.R. (2018). Long-Term Hydrologic Impact Assessment of Non-point Source Pollution Measured Through Land Use/Land Cover (LULC) Changes in a Tropical Complex Catchment. *Earth Systems and Environment*. 2(1): 67-84.	7
14	Ngabura, M., Hussain, S.A., Ghani, W.A.W.A., Jami, M.S., Tan, Y.P. (2018). Utilization of renewable durian peels for biosorption of zinc from wastewater. *Journal of Environmental Chemical Engineering*. 6(2): 2528-2539.	7
14	Liu, L., Mi, J., Wang, Y., Zou, Y., Ma, B., Liao, X., Liang, J.B., Wu, Y. (2018). Different methods of incorporating ciprofloxacin in soil affect microbiome and degradation of ciprofloxacin residue. *Science of the Total Environment*. 0: 1673-1681.	7
14	Kalantari, F., Tahir, O.M., Joni, R.A., Fatemi, E. (2018). Opportunities and challenges in sustainability of vertical farming: A review. *Journal of Landscape Ecology(Czech Republic)*. 11(1): 35-60.	7
15	Sheikhy Narany, T., Sefie, A., Aris, A.Z. (2018). The long-term impacts of anthropogenic and natural processes on groundwater deterioration in a multilayered aquifer. *Science of the Total Environment*. 630: 931-942.	6
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20	Rehan, B.M. (2018). An innovative micro-scale approach for vulnerability and flood risk assessment with the application to property-level protection adoptions. *Natural Hazards*. 91(3): 1039-1057.	1
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20	Tukur, A.I., Nabegu, A.B., Umar, D.A., Olofin, E.A., Azmin Sulaiman, W.N. (2018). Groundwater condition and management in Kano region, Northwestern Nigeria. *Hydrology*. 5(1): 1-21.	1
20	Narayanan, K., Miyagawa, H., Kitano, R., Nakagawa, K., Hirooka, M., Hashimoto, S., Beskoski, V.P., Hamida, H.H.A., Jahromi, F.A., Phang, I., Aris, A.Z., Li, D., Nakano, T. (2018). Greener approaches to the measurement of polyaromatic hydrocarbons (PAHs) in unused and used crankcase motor oils from Malaysia. *Environmental Science and Pollution Research*. 25(8): 7206-7211.	1
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20	Jabir, R.S., Ho, G.F., Annuar, M.A.B.A., Stanslas, J. (2018). Plasma alpha-1-acid glycoprotein as a potential predictive biomarker for non-haematological adverse events of docetaxel in breast cancer patients. *Biomarkers*. 23(2): 142-146.	1
20	Ismail, K.I., Sultan, M.T.H., Shah, A.U., Mazlan, N., Ariffin, A.H. (2018). Tensile properties of hybrid biocomposite reinforced epoxy modified with Carbon Nanotube (CNT). *BioResources*. 13(1): 1787-1800.	1
20	Hanapiah, M., Zulkifli, S.Z., Mustafa, M., Mohamat-Yusuff, F., Ismail, A. (2018). Isolation, characterization, and identification of potential Diuron-degrading bacteria from surface sediments of Port Klang, Malaysia. *Marine Pollution Bulletin*. 127: 453-457.	1
20	Manogaran, M., Ahmad, S.A., Yasid, N.A., Yakasai, H.M., Shukor, M.Y. (2018). Characterisation of the simultaneous molybdenum	1

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20	Moradihamedani, P., Abdullah, A.H. (2018). Preparation and characterization of polysulfone/zeolite mixed matrix membranes for removal of lowconcentration ammonia from aquaculture wastewater. *Water Science and Technology*. 77(2): 346-354.	1
20	Alli, H. (2018). Evaluation theories of product definition method for a successful new product. *Alam Cipta*. 11(2): 52-56.	1
20	Yazan, L.S., Zainal, N.A., Ali, R.M., Muhamad Zali, M.F.S., Sze, O.Y., Sim, T.Y., Gopalsamy, B., Ling, V.F., Sapuan, S., Esa, N., Haron, A.S., Ansar, F.H.Z., Mokhtar, A.M.A., Alwi, S.S.S. (2018). Antiulcer properties of kelulut honey against ethanol-induced gastric ulcer. *Pertanika Journal of Science and Technology*. 26(1): 121-132.	1
20	Yap, K.L., Lee, C.M., Gan, Y.L., Tang, T.K., Lee, Y.Y., Tee, T.P., Lai, O.M. (2018). High intrinsic biosorption efficiency of cattle manure on Cr(VI): A potential low-cost fibre-rich biosorbent. *Pertanika Journal of Science and Technology*. 26(1): 193-214.	1
20	Nasir, N.A.M., Saadon, S., Abu Talib, A.R. (2018). Performance analysis of an Organic Rankine Cycle system with superheater utilizing exhaust gas of a turbofan engine. *International Journal of Engineering and Technology(UAE)*. 7(4): 120-124.	1
20	Omar, M.K., Rashid, A.M., Puad, M.H.M., Azman, A.H.N. (2018). Fostering interests for teaching: Job satisfaction and motivation fators of Malaysian TVET instructors. *International Journal of Engineering and Technology(UAE)*. 7(4): 46-51.	1
20	Akhtar, M.S., Salleh, L.M., Ghafar, N.H., Khurro, M., Mehmood, S.A. (2018). Conceptualizing the impact of perceived organizational support and psychological contract fulfillment of employees paradoxical intentions of stay and leave. *International Journal of Engineering and Technology(UAE)*. 7(2): 9-14.	1
20	Muhammad Amir, S.M., Sultan, M.T.H., Jawaid, M., Ariffin, A.H., Ishak, M.R., ReusmazzranYusof, M., Mohd, S., Salleh, K.A.M. (2018). Effect of gamma radiation on compressive properties of Kevlar/oil palm empty fruit bunch hybrid composites. *BioResources*. 13(4): 7628-7639.	1
20	Riahi, A., Wan Yusof, K., Isa, M.H., Singh Mahinder Singh, B., Mustaffa, Z., Ahsan, A., Ul Mustafa, M.R., Sapari, N., Zahari, N.A.M. (2018). Potable water production using two solar stills having different cover materials and fabrication costs. *Environmental Progress and Sustainable Energy*. 37(1): 584-596.	1
20	Jegede, A., Udzir, N.I., Abdullah, A., Mahmod, R. (2018). Revocable	1

	and non-invertible multibiometric template protection based on matrix transformation. *Pertanika Journal of Science and Technology*. 26(1): 133-160.	
20	Jaafar, C.N.A., Rizal, M.A.M., Zainol, I. (2018). Effect of kenaf alkalization treatment on morphological and mechanical properties of epoxy/silica/kenaf composite. *International Journal of Engineering and Technology(UAE)*. 7(4): 258-263.	1
20	Noori, A.M., Hasan, S.F., Ajaj, Q.M., Mezaal, M.R., Shafri, H.Z.M., Shareef, M.A. (2018). Fusion of airborne hyperspectral and world view2 Multispectral images for detailed urban land cover classification a case s study of Kuala Lumpur, Malaysia. *International Journal of Engineering and Technology(UAE)*. 7(4): 202-206.	1
20	Mustapha, M., Awang, K.W. (2018). Sustainability of a beach resort: A case study. *International Journal of Engineering and Technology(UAE)*. 7(2): 210-214.	1
20	Awang, N., Rahmat, R.W., Sulaiman, P.S., Jaafar, A., Beng, N.S. (2018). Filling simple holes of triangular mesh by using Enhanced Advancing Front Mesh (EAFM) method. *International Journal of Engineering and Technology(UAE)*. 7(2): 81-85.	1
20	Mohamed, N.N., Loy, S.L., Lim, P.Y., Al Mamun, A., Jan Mohamed, H.J. (2018). Early life secondhand smoke exposure assessed by hair nicotine biomarker may reduce children's neurodevelopment at 2 years of age. *Science of the Total Environment* : 147-153.	1
20	Rizal, S., Mustapha, A., Owolabi, F.A.T., Khalil, H.P.S.A., Tye, Y.Y., Fizree, H.M., Abdullah, K., Kumar, U.S.U., Paridah, M.T. (2018). Enhancement of the physical, mechanical, and thermal properties of epoxy-based bamboo nanofiber nanocomposites. *BioResources*. 13(4): 7709-7725.	1
20	Nurcahyo, I.F., Wijaya, K., Triyono, Budiman, A., Taufiq-Yap, Y.H. (2018). Synthesis and characterization of natural Ca(OH) superbase catalyst for biodiesel production from palm oil. *Oriental Journal of Chemistry*. 34(2): 750-756.	1
20	Keshavarzifard, M., Zakaria, M.P., Keshavarzifard, S., Sharifi, R. (2018). Distributions, composition patterns, sources and potential toxicity of polycyclic aromatic hydrocarbons (PAHs) pollution in surface sediments from the kim kim river and segget river, Peninsula Malaysia. *Pertanika Journal of Science and Technology*. 26(1): 95-120.	1

Penerbitan Pegawai UPM tahun 2018 dalam bidang Sains Alam Sekitar - 456 penerbitan
UPM Officers publications in 2018 in the Field of Environmental Sciences - 456 publications

VETERINAR

VETERINARY

Perpustakaan Sultan Abdul Samad, UPM

Jadual 41. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2009-2018 Bidang Veterinar

Table 41. Top Twenty Citations of UPM Officers Publications Published in 2009-2018 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Natrah F.M.I., Ruwandeepika H.A.D., Pawar S., Karunasagar I., Sorgeloos P., Bossier P., Defoirdt T. (2011). Regulation of virulence factors by quorum sensing in Vibrio harveyi. *Veterinary Microbiology*. 154(43497): 124-129.	54
2	Assi M.A., Hezmee M.N.M., Haron A.W., Sabri M.Y.M., Rajion M.A. (2016). The detrimental effects of lead on human and animal health. *Veterinary World*. 9(6): 660-671.	53
3	Boerman I., Selvarajah G.T., Nielen M., Kirpensteijn J. (2012). Prognostic factors in canine appendicular osteosarcoma - a meta-analysis. *BMC Veterinary Research*. 8: -.	52
4	Murugan K., Dinesh D., Kavithaa K., Paulpandi M., Ponraj T., Alsalhi M.S., Devanesan S., Subramaniam J., Rajaganesh R., Wei H., Kumar S., Nicoletti M., Benelli G. (2016). Hydrothermal synthesis of titanium dioxide nanoparticles: mosquitocidal potential and anticancer activity on human breast cancer cells (MCF-7). *Parasitology Research*. 115(3): 1085-1096.	51
5	Murugan K., Samidoss C.M., Panneerselvam C., Higuchi A., Roni M., Suresh U., Chandramohan B., Subramaniam J., Madhiyazhagan P., Dinesh D., Rajaganesh R., Alarfaj A.A., Nicoletti M., Kumar S., Wei H., Canale A., Mehlhorn H., Benelli G. (2015). Seaweed-synthesized silver nanoparticles: an eco-friendly tool in the fight against Plasmodium falciparum and its vector Anopheles stephensi?. *Parasitology Research*. 114(11): 4087-4097.	50
6	Panneerselvam C., Murugan K., Roni M., Aziz A.T., Suresh U., Rajaganesh R., Madhiyazhagan P., Subramaniam J., Dinesh D., Nicoletti M., Higuchi A., Alarfaj A.A., Munusamy M.A., Kumar S., Desneux N., Benelli G. (2016). Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of Pteridium aquilinum leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. *Parasitology Research*. 115(3): 997-1013.	46
7	Khodavandi A., Alizadeh F., Aala F., Sekawi Z., Chong P.P. (2010). In vitro investigation of antifungal activity of allicin alone and in combination with azoles against Candida species. *Mycopathologia*. 169(4): 287-295.	43

8	Jaafar N.M., Clode P.L., Abbott L.K. (2014). Microscopy observations of habitable space in biochar for colonization by fungal hyphae from soil. *Journal of Integrative Agriculture*. 13(3): 483-490.	40
9	Naing S.W., Wahid H., Mohd Azam K., Rosnina Y., Zuki A.B., Kazhal S., Bukar M.M., Thein M., Kyaw T., San M.M. (2010). Effect of sugars on characteristics of Boer goat semen after cryopreservation. *Animal Reproduction Science*. 122(43497): 23-28.	38
9	Zamri-Saad M., Amal M.N.A., Siti-Zahrah A. (2010). Pathological changes in red tilapias (Oreochromis spp.) naturally infected by Streptococcus agalactiae. *Journal of Comparative Pathology*. 143(43526): 227-229.	38
10	Memon A.A., Wahid H., Rosnina Y., Goh Y.M., Ebrahimi M., Nadia F.M. (2012). Effect of antioxidants on post thaw microscopic, oxidative stress parameter and fertility of Boer goat spermatozoa in Tris egg yolk glycerol extender. *Animal Reproduction Science*. 136(43497): 55-60.	37
11	Ebrahimi M., Rajion M.A., Goh Y.M., Sazili A.Q. (2012). Impact of different inclusion levels of oil palm (Elaeis guineensisJacq.) fronds on fatty acid profiles of goat muscles. *Journal of Animal Physiology and Animal Nutrition*. 96(6): 962-969.	36
12	Selvarajah G.T., Kirpensteijn J. (2010). Prognostic and predictive biomarkers of canine osteosarcoma. *Veterinary Journal*. 185(1): 28-35.	34
12	Simon K.D., Bakar Y., Samat A., Zaidi C.C., Aziz A., Mazlan A.G. (2009). Population growth, trophic level, and reproductive biology of two congeneric archer fishes (Toxotes chatareus, Hamilton 1822 and Toxotes jaculatrix, Pallas 1767) inhabiting Malaysian coastal waters. *Journal of Zhejiang University: Science B*. 10(12): 902-911.	34
13	Thu T.V., Loh T.C., Foo H.L., Yaakub H., Bejo M.H. (2011). Effects of liquid metabolite combinations produced by Lactobacillus plantarum on growth performance, faeces characteristics, intestinal morphology and diarrhoea incidence in postweaning piglets. *Tropical Animal Health and Production*. 43(1): 69-75.	32
14	Natrah F.M.I., Alam M.I., Pawar S., Harzevili A.S., Nevejan N., Boon N., Sorgeloos P., Bossier P., Defoirdt T. (2012). The impact of quorum sensing on the virulence of Aeromonas hydrophila and Aeromonas salmonicida towards burbot (Lota lota L.) larvae. *Veterinary Microbiology*. 159(43497): 77-82.	31
14	Hafizah A.H., Zaiton Z., Zulkhairi A., Mohd Ilham A., Nor Anita M.M.N., Zaleha A.M. (2010). Piper sarmentosum as an antioxidant on oxidative stress in human umbilical vein endothelial cells induced by hydrogen peroxide. *Journal of Zhejiang University: Science B*. 11(5): 357-365.	31
15	Jalili M., Jinap S., Radu S. (2010). Natural Occurrence of Ochratoxin A Contamination in Commercial Black and White Pepper Products.	30

	Mycopathologia. 170(4): 251-258.	
16	Amal M.N.A., Zamri-Saad M., Iftikhar A.R., Siti-Zahrah A., Aziel S., Fahmi S. (2012). An outbreak of Streptococcus agalactiae infection in cage-cultured golden pompano, Trachinotus blochii (Lacépède), in Malaysia. *Journal of Fish Diseases*. 35(11): 849-852.	29
17	Mohd Nor N., Steeneveld W., Mourits M.C.M., Hogeveen H. (2012). Estimating the costs of rearing young dairy cattle in the Netherlands using a simulation model that accounts for uncertainty related to diseases. *Preventive Veterinary Medicine*. 106(43558): 214-224.	28
17	Abuseliana A.F., Daud H.H.M., Aziz S.A., Bejo S.K., Alsaid M. (2011). Pathogenicity of Streptococcus agalactiae isolated from a fish farm in Selangor to Juvenile Red Tilapia (Oreochromis sp.). *Journal of Animal and Veterinary Advances*. 10(7): 914-919.	28
18	Shah A.H., Saleha A.A., Zunita Z., Murugaiyah M., Aliyu A.B., Jafri N. (2013). Prevalence, Distribution and Antibiotic Resistance of Emergent Arcobacter spp. from Clinically Healthy Cattle and Goats. *Transboundary and Emerging Diseases*. 60(1): 9-16.	25
19	Rasoli M., Yeap S.K., Tan S.W., Moeini H., Ideris A., Bejo M.H., Alitheen N.B.M., Kaiser P., Omar A.R. (2014). Alteration in lymphocyte responses, cytokine and chemokine profiles in chickens infected with genotype VII and VIII velogenic Newcastle disease virus. *Comparative Immunology, Microbiology and Infectious Diseases*. 37(1): 11-21.	24
19	Abuseliana A., Daud H., Aziz S.A., Bejo S.K., Alsaid M. (2010). Streptococcus agalactiae the etiological agent of mass mortality in farmed red tilapia (Oreochromis sp.). *Journal of Animal and Veterinary Advances*. 9(20): 2640-2646.	24
20	Roohani K., Tan S.W., Yeap S.K., Ideris A., Bejo M.H., Omar A.R. (2015). Characterisation of genotype VII Newcastle disease virus (NDV) isolated from NDV vaccinated chickens, and the efficacy of LaSota and recombinant genotype VII vaccines against challenge with velogenic NDV. *Journal of Veterinary Science*. 16(4): 447-457.	23
20	Tan T.C., Tan P.C., Sharma R., Sugnaseelan S., Suresh K.G. (2013). Genetic diversity of caprine Blastocystis from Peninsular Malaysia. *Parasitology Research*. 112(1): 85-89.	23
20	Atyah M.A.S., Zamri-Saad M., Siti-Zahrah A. (2010). First report of methicillin-resistant Staphylococcus aureus from cage-cultured tilapia (Oreochromis niloticus). *Veterinary Microbiology*. 144(43558): 502-504.	23

Penerbitan Pegawai UPM tahun 2009-2018 dalam bidang Veterinar - 565 penerbitan
UPM Officers publications in 2009-2018 in the Field of Veterinary - 565 publications

Jadual 42. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2009 Bidang Veterinar

Table 42. Top Twenty Citations of UPM Officers Publications Published in 2009 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Simon K.D., Bakar Y., Samat A., Zaidi C.C., Aziz A., Mazlan A.G. (2009). Population growth, trophic level, and reproductive biology of two congeneric archer fishes (Toxotes chatareus, Hamilton 1822 and Toxotes jaculatrix, Pallas 1767) inhabiting Malaysian coastal waters. *Journal of Zhejiang University: Science B*. 10(12): 902-911.	34
2	Shafarin M.S., Zamri-Saad M., Khairani B.S., Saharee A.A. (2009). Pathological Changes in the Respiratory Tract of Goats Infected by Pasteurella multocida B:2. *Journal of Comparative Pathology*. 140(2-Mar): 194-197.	14
3	Zulkifli I., Iman Rahayu H.S., Alimon A.R., Vidyadaran M.K., Babjee S.A. (2009). Gut microflora and intestinal morphology of commercial broiler chickens and Red Jungle Fowl fed diets containing palm kernel meal. *Archiv fur Geflugelkunde*. 73(1): 49-55.	12
4	Sharif S., Arshad S.S., Hair-Bejo M., Omar A.R., Zeenathul N.A., Hafidz M.A. (2009). Prevalence of feline coronavirus in two cat populations in Malaysia. *Journal of Feline Medicine and Surgery*. 11(12): 1031-1034.	11
4	Saleha A.A., Tin T.M., Ganapathy K.K., Zulkifli I., Raha R., Arifah K. (2009). Possible effect of antibiotic-supplemented feed and environment on the occurrence of multiple antibiotic resistant Escherichia coli in chickens. *International Journal of Poultry Science*. 8(1): 28-31.	11
5	Jetana T., Suthikrai W., Usawang S., Vongpipatana C., Sophon S., Liang J.B. (2009). The effects of concentrate added to pineapple (Ananas Comosus linn. Mer.) waste silage in differing ratios to form complete diets, on digestion, excretion of urinary purine derivatives and blood metabolites in growing, male, Thai swamp buffaloes. *Tropical Animal Health and Production*. 41(4): 449-459.	10
6	Khalid K.A., Zakaria Z., Ooi P.T., McOrist S. (2009). Low levels of meticillin- Resistant Staphylococcus aureus in pigs in Malaysia. *Veterinary Record*. 164(20): 626-627.	9
6	Ahmad-Raus R., Ali A.M., Tan W.S., Salleh H.Mohd., Eshaghi M., Yusoff K. (2009). Localization of the antigenic sites of newcastle disease virus nucleocapsid using a panel of monoclonal antibodies.	9

	Research in Veterinary Science. 86(1): 174-182.	
7	Agungpriyono S., Kurohmaru M., Kimura J., Wahid A.H., Sasaki M., Kitamura N., Yamada J., Fukuta K., Zuki A.B. (2009). Distribution of lectin-bindings in the testis of the lesser mouse deer, tragulus javanicus. *Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia*. 38(3): 208-213.	8
7	Loh T.C., Fong L.Y., Foo H.L., Thanh N.T., Sheikh-Omar A.R. (2009). Utilisation of earthworm meal in partial replacement of soybean and fish meals in diets of broilers. *Journal of Applied Animal Research*. 36(1): 29-32.	8
8	Takele B.Y., Khairani-Bejo S., Bahaman A.R., Omar A.R. (2009). Comparison of PCR assay with serum and whole blood samples of experimental trials for detection and differentiation of brucella melitensis. *Journal of Animal and Veterinary Advances*. 8(8): 1637-1640.	5
8	Davoud Jazayeri S., Mustafa S., Manap M.Y., Ali A.M., Ismail A., Faujan N.H., Shaari M.Y. (2009). Survival of Bifidobacteria and other selected intestinal bacteria in TPY medium supplemented with curcumin as assessed in vitro. *International Journal of Probiotics and Prebiotics*. 4(1): 15-22.	5
9	Kaveh K., Ibrahim R., Bakar M.Z.A., Ibrahim T.A. (2009). Repair of compact bone critical sized defect with natural originated scaffold in rabbit. *Journal of Animal and Veterinary Advances*. 8(8): 1616-1623.	4
10	Erwan E., Alimon A.R., Sazili A.Q., Yaakub H., Hilmi M. (2009). Effect of L-Leucine supplementation on growth performance and carcass characteristics of Grower-Broiler chickens fed low protein diets. *American Journal of Animal and Veterinary Sciences*. 4(4): 95-100.	3
10	Khaledi K.J., Panandam J.M., Maheran A.A., Siraj S.S. (2009). Reliable and fast molecular sexing in bos indicus cattle using amelogenin gene primers. *Journal of Applied Animal Research*. 35(1): 83-85.	3
11	Majidi A., Panandam J.M., Sazili A.Q., Siraj S.S. (2009). Characterization of bovine calpastatin gene in nelore cattle using polymerase chain reaction-restricted fragment length polymorphisms. *American Journal of Animal and Veterinary Sciences*. 4(4): 92-94.	1
11	Yaakub H., Masnindah M., Shanthi G., Sukardi S., Alimon A.R. (2009). The effects of palm kernel cake based diet on spermatogenesis in Malin × Santa-Ines rams. *Animal Reproduction Science*. 115(1-Apr): 182-188.	1

Penerbitan Pegawai UPM tahun 2009 dalam bidang Veterinar - 19 penerbitan

UPM Officers publications in 2009 in the Field of Veterinary- 19 publications

Perpustakaan Sultan Abdul Samad, UPM

Jadual 43. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2010 Bidang Veterinar

Table 43. Top Twenty Citations of UPM Officers Publications Published in 2010 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Khodavandi A., Alizadeh F., Aala F., Sekawi Z., Chong P.P. (2010). In vitro investigation of antifungal activity of allicin alone and in combination with azoles against Candida species. *Mycopathologia*. 169(4): 287-295.	43
2	Naing S.W., Wahid H., Mohd Azam K., Rosnina Y., Zuki A.B., Kazhal S., Bukar M.M., Thein M., Kyaw T., San M.M. (2010). Effect of sugars on characteristics of Boer goat semen after cryopreservation. *Animal Reproduction Science*. 122(1-Feb): 23-28.	38
2	Zamri-Saad M., Amal M.N.A., Siti-Zahrah A. (2010). Pathological changes in red tilapias (Oreochromis spp.) naturally infected by Streptococcus agalactiae. *Journal of Comparative Pathology*. 143(2-Mar): 227-229.	38
3	Selvarajah G.T., Kirpensteijn J. (2010). Prognostic and predictive biomarkers of canine osteosarcoma. *Veterinary Journal*. 185(1): 28-35.	34
4	Hafizah A.H., Zaiton Z., Zulkhairi A., Mohd Ilham A., Nor Anita M.M.N., Zaleha A.M. (2010). Piper sarmentosum as an antioxidant on oxidative stress in human umbilical vein endothelial cells induced by hydrogen peroxide. *Journal of Zhejiang University: Science B*. 11(5): 357-365.	31
5	Jalili M., Jinap S., Radu S. (2010). Natural Occurrence of Ochratoxin A Contamination in Commercial Black and White Pepper Products. *Mycopathologia*. 170(4): 251-258.	30
6	Abuseliana A., Daud H., Aziz S.A., Bejo S.K., Alsaid M. (2010). Streptococcus agalactiae the etiological agent of mass mortality in farmed red tilapia (Oreochromis sp.). *Journal of Animal and Veterinary Advances*. 9(20): 2640-2646.	24
7	Atyah M.A.S., Zamri-Saad M., Siti-Zahrah A. (2010). First report of methicillin-resistant Staphylococcus aureus from cage-cultured tilapia (Oreochromis niloticus). *Veterinary Microbiology*. 144(3-Apr): 502-504.	23
8	Soleimani A.F., Kasim A., Alimon A.R., Meimandipour A., Zulkifli I. (2010). Ileal endogenous amino acid flow of broiler chickens under high ambient temperature. *Journal of Animal Physiology and Animal*	22

	Nutrition. 94(5): 641-647.	
9	Kaveh K., Ibrahim R., Bakar M.Z.A., Ibrahim T.A. (2010). Bone grafting and bone graft substitutes. *Journal of Animal and Veterinary Advances*. 9(6): 1055-1067.	19
10	Adamu L., Adzahan N.M., Abdullah R., Ahmad B. (2010). Effects of race distance on physical, hematological and biochemical parameters of endurance horses. *American Journal of Animal and Veterinary Sciences*. 5(4): 244-248.	17
10	Oveissi S., Omar A.R., Yusoff K., Jahanshiri F., Hassan S.S. (2010). DNA vaccine encoding avian influenza virus H5 and Esat-6 of Mycobacterium tuberculosis improved antibody responses against AIV in chickens. *Comparative Immunology, Microbiology and Infectious Diseases*. 33(6): 491-503.	17
11	Thanh N.T., Chwen L.T., Foo H.L., Hair-Bejo M., Kasim A.B. (2010). Inhibitory activity of metabolites produced by strains of Lactobacillus plantarum isolated from Malaysian fermented food. *International Journal of Probiotics and Prebiotics*. 5(1): 37-43.	16
12	Emikpe B.O., Sabri M.Y., Akpavie S.O., Zamri-Saad M. (2010). Experimental infection of Peste des Petit Ruminant virus and Mannheimia haemolytica A2 in goats: Immunolocalisation of Mannheimia haemolytica antigens. *Veterinary Research Communications*. 34(7): 569-578.	15
13	Sharif S., Arshad S.S., Hair-Bejo M., Omar A.R., Zeenathul N.A., Alazawy A. (2010). Diagnostic methods for feline coronavirus: A review. *Veterinary Medicine International*. 2010: 1-7.	14
14	Merawin L.T., Arifah A.K., Sani R.A., Somchit M.N., Zuraini A., Ganabadi S., Zakaria Z.A. (2010). Screening of microfilaricidal effects of plant extracts against Dirofilaria immitis. *Research in Veterinary Science*. 88(1): 142-147.	12
15	Fouzi M., Shariff M., Omar A.R., Md Yusoff F., Tan S.W. (2010). TaqMan real-time PCR assay for relative quantification of white spot syndrome virus infection in Penaeus monodon Fabricius exposed to ammonia. *Journal of Fish Diseases*. 33(12): 931-938.	10
15	Soleimani A.F., Zulkifli I. (2010). Effects of high ambient temperature on Blood parameters in Red Jungle Fowl, Village Fowl and Broiler Chickens. *Journal of Animal and Veterinary Advances*. 9(8): 1201-1207.	10
15	Tang J.Y.H, Aziz S.A., Abu J., Ghazali F.M., Chilek T.Z.T., Ahmad N., Sandra A., Nishibuchi M., Radu S. (2010). Thermophilic Campylobacter spp. occurrence on chickens at farm, slaughter house and retail. *International Journal of Poultry Science*. 9(2): 134-138.	10
16	Amal M.N.A., Zamri-Saad M., Zulkafli A.R., Siti-Zahrah A., Misn S., Ramley B., Shahidan H., Sabri M.Y. (2010). Water thermocline confirms susceptibility of tilapia cultured in lakes to Streptococcus	9

	agalactiae. *Journal of Animal and Veterinary Advances*. 9(22): 2811-2817.	
16	Karami M., Alimon A.R., Sazili A.Q., Goh Y.M. (2010). Meat quality and lipid oxidation of infraspinatus muscle and blood plasma of goats under dietary supplementation of herbal antioxidants. *Journal of Animal and Veterinary Advances*. 9(24): 3039-3047.	9
16	Saleha A.A., Zunita Z. (2010). Methicillin resistant Staphylococcus aureus (MRSA): An emerging veterinary and zoonotic pathogen of public health concern and some studies in Malaysia. *Journal of Animal and Veterinary Advances*. 9(7): 1094-1098.	9
16	Samiei A., Liang J.B., Ghorbani G.R., Hirooka H., Yaakub H., Tabatabaei M. (2010). An evaluation of β-hydroxybutyrate in milk and blood for prediction of subclinical ketosis in dairy cows. *Polish Journal of Veterinary Sciences*. 13(2): 349-356.	9
16	Emadi M., Kaveh K., Jahanshiri F., Hair-Bejo M., Ideris A., Alimon A.R. (2010). Dietary tryptophan effects on growth performance and blood parameters in broiler chicks. *Journal of Animal and Veterinary Advances*. 9(4): 700-704.	9
16	Emadi M., Kaveh K., Bejo M.H., Ideris A., Jahanshiri F., Ivan M., Alimon R.A. (2010). Growth performance and blood parameters as influenced by different levels of dietary Arginine in broiler chickens. *Journal of Animal and Veterinary Advances*. 9(1): 70-74.	9
17	Adrian M.S., Sani R.A., Hassan L., Wong M.T. (2010). Outbreaks of trypanosomiasis and the seroprevalence of T. evansi in a deer breeding centre in Perak, Malaysia. *Tropical Animal Health and Production*. 42(2): 145-150.	8
17	Sharif S., Arshad S.S., Hair-Bejo M., Omar A.R., Zeenathul N.A., Fong L.S., Rahman N., Arshad H., Shamsudin S., Isa M.-K.A. (2010). Descriptive distribution and phylogenetic analysis of feline infectious peritonitis virus isolates of Malaysia. *Acta Veterinaria Scandinavica*. 52(1): 1-7.	8
17	Karami M., Alimon A.R., Goh Y.M., Sazili A.Q., Ivan M. (2010). Effects of dietary herbal antioxidants supplemented on feedlot growth performance and carcass composition of male goats. *American Journal of Animal and Veterinary Sciences*. 5(1): 33-39.	8
18	Emadi M., Jahanshiri F., Kaveh K., Hair-Bejo M., Ideris A., Alimon R. (2010). Tryptophan stimulates immune response in broiler chickens challenged with infectious bursal disease vaccine. *Journal of Animal and Veterinary Advances*. 9(3): 610-616.	7
19	Navid S., Hilmi M., Sazili A.Q., Sheikhlar A. (2010). Effects of papaya leaf meal, pineapple skin meal and vitamin D3 supplementation on meat quality of spent layer chicken. *Journal of Animal and Veterinary Advances*. 9(22): 2873-2876.	6
19	Yimer N., Rosnina Y., Wahid H., Saharee A.A., Yap K.C., Ganesamurthi P. (2010). Ovarian activity in beef and dairy cows with	6

	prolonged postpartum period and heifers that fail to conceive. *Tropical Animal Health and Production*. 42(4): 607-615.	
20	Emadi M., Jahanshiri F., Azizi Jalalian F., Kaveh K., Bejo M.H., Ideris A., Assumaidaee A.A., Alimon R.A. (2010). Inimunostiniulatory effects of arginine in broiler chickens challenged with vaccine strain of infectious Bursal Disease virus. *Journal of Animal and Veterinary Advances*. 9(3): 594-600.	5
20	Hadi H., Wahid H., Abas Mazni O., Rosnina Y., Daliri M., Dashtizad M., Faizah A., Yap K.C., Fahrul F.J., Fazly A. (2010). Effect of equilibration temperature on in vitro viability and subsequent embryo development of vitrified-warmed immature bovine oocytes. *American Journal of Animal and Veterinary Sciences*. 5(2): 71-75.	5

Penerbitan Pegawai UPM tahun 2010 dalam bidang Veterinar -55 penerbitan
UPM Officers publications in 2010 in the Field of Veterinary - 55 publications

Jadual 44. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2011 Bidang Veterinar

Table 44. Top Twenty Citations of UPM Officers Publications Published in 2011 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Natrah F.M.I., Ruwandeepika H.A.D., Pawar S., Karunasagar I., Sorgeloos P., Bossier P., Defoirdt T. (2011). Regulation of virulence factors by quorum sensing in Vibrio harveyi. *Veterinary Microbiology*. 154(1-Feb): 124-129.	54
2	Thu T.V., Loh T.C., Foo H.L., Yaakub H., Bejo M.H. (2011). Effects of liquid metabolite combinations produced by Lactobacillus plantarum on growth performance, faeces characteristics, intestinal morphology and diarrhoea incidence in postweaning piglets. *Tropical Animal Health and Production*. 43(1): 69-75.	32
3	Abuseliana A.F., Daud H.H.M., Aziz S.A., Bejo S.K., Alsaid M. (2011). Pathogenicity of Streptococcus agalactiae isolated from a fish farm in Selangor to Juvenile Red Tilapia (Oreochromis sp.). *Journal of Animal and Veterinary Advances*. 10(7): 914-919.	28
4	Memon A.A., Wahid H., Rosnina Y., Goh Y.M., Ebrahimi M., Nadia F.M., Audrey G. (2011). Effect of butylated hydroxytoluene on cryopreservation of Boer goat semen in Tris egg yolk extender. *Animal Reproduction Science*. 129(1-Feb): 44-49.	22
5	Houshmand M., Azhar K., Zulkifli I., Bejo M.H., Meimandipour A., Kamyab A. (2011). Effects of non-antibiotic feed additives on performance, tibial dyschondroplasia incidence and tibia characteristics of broilers fed low-calcium diets. *Journal of Animal Physiology and Animal Nutrition*. 95(3): 351-358.	21
6	Kaveh K., Ibrahim R., Abu Bakar M.Z., Ibrahim T.A. (2011). Mesenchymal stem cells, osteogenic lineage and bone tissue engineering: A review. *Journal of Animal and Veterinary Advances*. 10(17): 2317-2330.	18
6	Javanmard A., Azadzadeh N., Esmailizadeh A.K. (2011). Mutations in bone morphogenetic protein 15 and growth differentiation factor 9 genes are associated with increased litter size in fat-tailed sheep breeds. *Veterinary Research Communications*. 35(3): 157-167.	18
6	Adnyane I.K.M., Zuki A.B., Noordin M.M., Agungpriyono S. (2011). Morphological Study of the Lingual Papillae in the Barking deer, Muntiacus muntjak. *Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia*. 40(1): 73-77.	18

7	Emadi M., Jahanshiri F., Kaveh K., Hair-Bejo M., Ideris A., Alimon A.R. (2011). Nutrition and immunity: The effects of the combination of arginine and tryptophan on growth performance, serum parameters and immune response in broiler chickens challenged with infectious bursal disease vaccine. *Avian Pathology*. 40(1): 63-72.	17
8	Yasin I.-S.M., Yusoff S.M., Mohd Z.-S., Wahid Mohd E.A. (2011). Efficacy of an inactivated recombinant vaccine encoding a fimbrial protein of Pasteurella multocida B:2 against hemorrhagic septicemia in goats. *Tropical Animal Health and Production*. 43(1): 179-187.	16
9	Fard S.G., Shamsabadi F.T., Emadi M., Meng G.Y., Muhammad K., Mohamed S. (2011). Ethanolic extract of Eucheuma cottonii promotes in vivo hair growth and wound healing. *Journal of Animal and Veterinary Advances*. 10(5): 601-605.	15
10	Kadhim K.K., Zuki A.B.Z., Noordin M.M., Babjee S.M.A. (2011). Histomorphology of the Stomach, Proventriculus and Ventriculus of the Red Jungle Fowl. *Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia*. 40(3): 226-233.	12
11	Moeini H., Omar A.R., Rahim R.A., Yusoff K. (2011). Development of a DNA vaccine against chicken anemia virus by using a bicistronic vector expressing VP1 and VP2 proteins of CAV. *Comparative Immunology, Microbiology and Infectious Diseases*. 34(3): 227-236.	11
12	Meimandipour A., Soleimanifarjam A., Azhar K., Hair-Bejo M., Shuhaimi M., Nateghi L., Abd Manap M.Y. (2011). Age effects on short chain fatty acids concentrations and pH values in the gastrointestinal tract of broiler chickens [Alterseffekte auf die konzentration kurzkettiger fettsäuren und auf den pH-wert im verdauungstrakt von broilern]. *Archiv fur Geflugelkunde*. 75(3): 164-168.	10
12	Oskoueian E., Abdullah N., Saad W.Z., Omar A.R., Puteh M.B., Ho Y.W. (2011). Anti-nutritional metabolites and effect of treated Jatropha curcas kernel meal on rumen fermentation in vitro. *Journal of Animal and Veterinary Advances*. 10(2): 214-220.	10
13	Adnyane I.K.M., Zuki A.B., Noordin M.M., Agungpriyono S. (2011). Immunohistochemical Study of Endocrine Cells in the Gastrointestinal Tract of the Barking Deer, Muntiacus muntjak. *Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia*. 40(5): 365-374.	9
13	AL-Garadia M.A., Khairani-Bejo S., Zunita Z., Omar A.R. (2011). Detection of Brucella melitensis in blood samples collected from goats. *Journal of Animal and Veterinary Advances*. 10(11): 1437-1444.	9
13	Karami M., Alimon A.R., Goh Y.M. (2011). Effect of vitamin E, Andrographis paniculata and turmeric as dietary antioxidant supplementation on lipid and color stability of goat meat. *Small Ruminant Research*. 97(1-Mar): 67-71.	9

14	Husmaini, Abbas M.H., Purwati E., Yuniza A., Alimon A.R. (2011). Growth and survival of lactic acid bacteria isolated from byproduct of virgin coconut oil as probiotic candidate for poultry. *International Journal of Poultry Science*. 10(4): 309-314.	8
15	Al-Saffar F.J., Ganabadi S., Fakuraz S. (2011). Response of Channa striatus extract against monosodium iodoacetate induced osteoarthritis in rats. *Journal of Animal and Veterinary Advances*. 10(4): 460-469.	7
15	Nurulfiza I., Hair-Bejo M., Omar A.R., Aini I. (2011). Immunochromatographic gold-based test strip for rapid detection of infectious bursal disease virus antibodies. *Journal of Veterinary Diagnostic Investigation*. 23(2): 320-324.	7
16	Mu K.S., Kasim A.B., Ideris A., Saad C.R. (2011). Effect of fermented rice bran, bio-converted byproduct on performance of broiler chickens. *Journal of Animal and Veterinary Advances*. 10(22): 2990-2995.	6
17	Rosyidah M.R., Loh T.C., Foo H.L., Cheng X.F., Bejo M.H. (2011). Effect of feeding metabolites and acidifier on growth performance, faecal characteristics and microflora in broiler chickens. *Journal of Animal and Veterinary Advances*. 10(21): 2758-2764.	5
17	Zulkifli I., Soleimani A.F., Khalil M., Omar A.R., Raha A.R. (2011). Inhibition of adrenal steroidogenesis and heat shock protein 70 induction in neonatally feed restricted broiler chickens under heat stress condition [Verhinderung der adrenalen steoridgenese und der induktion des hitzeschock-proteins 70 bei nach dem schlu. *Archiv fur Geflugelkunde*. 75(4): 246-252.	5
17	Al-Garadi M.A., Khairani-Bejo S., Zunita Z., Omar A.R. (2011). Isolation and identification of Bucella melitensis in goats. *Journal of Animal and Veterinary Advances*. 10(8): 972-979.	5
17	Al-Saffar F.J., Ganabadi S., Fakurazi S., Yaakub H. (2011). Response of hepatic metabolizing enzymes and oxidative stress in orally administrated zerumbone against MIA-Induced osteoarthritis in rats. *Journal of Animal and Veterinary Advances*. 10(5): 566-573.	5
18	Faisal Z., Ideris A., Hair-Bejo M., Omar A.R., ChingGiap T. (2011). The prevalence of Mycoplasma gallisepticum infection in chickens from Peninsular Malaysia. *Journal of Animal and Veterinary Advances*. 10(14): 1867-1874.	4
18	Tajabadi N., Mardan M., Shuhaimi M., Abdul Manap M.Y. (2011). Isolation and identification of enterococcus sp. from honey stomach of honeybee based on biochemical and 16S rrna sequencing analysis. *International Journal of Probiotics and Prebiotics*. 6(2): 95-100.	4
18	Engku Azahan E.A., Noraziah M. (2011). Evaluation of dietary protein intake by growing ostriches. *Asian Journal of Poultry Science*. 5(2): 102-106.	4

18	Sharif S., Arshad S.S., Hair-Bejo M., Omar A.-R., Zeenathul N.A., Rahman N.-A., Alazawy A. (2011). Evaluation of feline coronavirus viraemia in clinically healthy and Ill cats with feline infectious peritonitis. *Journal of Animal and Veterinary Advances*. 10(1): 18-22.	4
19	Hameed A.-T., Ibrahim R., Karim A.-J., Zuki A., Azmi T., Ramasamy R. (2011). Neurobiological observations of bone mesenchymal stem cells in vitro and in vivo of injured sciatic nerve in rabbit. *Journal of Animal and Veterinary Advances*. 10(6): 686-691.	3
20	Sanaei M.R., Abu J., Nazari M., Faiz N.M., Bakar M.Z.A., Allaudin Z.N. (2011). Heterotopic implantation of autologous bone marrow in rock pigeons (Columba livia): Possible applications in avian bone grafting. *Journal of Avian Medicine and Surgery*. 25(4): 247-253.	2
20	Navid S., Hilmi M., Alimon A.R., Sazili A.Q., Sheikhlar A. (2011). Evaluation of the combination of vitamin D3 and papaya leaf on muscle antioxidant activity of spent chicken. *Journal of Animal and Veterinary Advances*. 10(20): 2696-2698.	2
20	Hajanan T, Wahid H., Rosnma Y., Daliri M., Dashtizad M., Mirzapour T., Yimer N, Bukar M.M., Iswadi M.I., Abas Mazni O. (2011). Cryotop device enhances vitrification outcome of immature bovine oocytes. *Journal of Animal and Veterinary Advances*. 10(19): 2541-2545.	2
20	Kaveh K., Ibrahim R., Abubakar M.Z., Ibrahim T.A. (2011). Repair of compact bone critical sized defect with bone tissue engineering in rabbits. *Journal of Applied Animal Research*. 39(2): 108-113.	2

Penerbitan Pegawai UPM tahun 2011 dalam bidang Veterinar - 46 penerbitan
UPM Officers publications in 2011 in the Field of Veterinary- 46 publications

Jadual 45. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2012 Bidang Veterinar

Table 45. Top Twenty Citations of UPM Officers Publications Published in 2012 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Boerman I., Selvarajah G.T., Nielen M., Kirpensteijn J. (2012). Prognostic factors in canine appendicular osteosarcoma - a meta-analysis. *BMC Veterinary Research*. 8: 1-12.	52
2	Memon A.A., Wahid H., Rosnina Y., Goh Y.M., Ebrahimi M., Nadia F.M. (2012). Effect of antioxidants on post thaw microscopic, oxidative stress parameter and fertility of Boer goat spermatozoa in Tris egg yolk glycerol extender. *Animal Reproduction Science*. 136(1-Feb): 55-60.	37
3	Ebrahimi M., Rajion M.A., Goh Y.M., Sazili A.Q. (2012). Impact of different inclusion levels of oil palm (Elaeis guineensisJacq.) fronds on fatty acid profiles of goat muscles. *Journal of Animal Physiology and Animal Nutrition*. 96(6): 962-969.	36
4	Natrah F.M.I., Alam M.I., Pawar S., Harzevili A.S., Nevejan N., Boon N., Sorgeloos P., Bossier P., Defoirdt T. (2012). The impact of quorum sensing on the virulence of Aeromonas hydrophila and Aeromonas salmonicida towards burbot (Lota lota L.) larvae. *Veterinary Microbiology*. 159(1-Feb): 77-82.	31
5	Amal M.N.A., Zamri-Saad M., Iftikhar A.R., Siti-Zahrah A., Aziel S., Fahmi S. (2012). An outbreak of Streptococcus agalactiae infection in cage-cultured golden pompano, Trachinotus blochii (Lacépède), in Malaysia. *Journal of Fish Diseases*. 35(11): 849-852.	29
6	Mohd Nor N., Steeneveld W., Mourits M.C.M., Hogeveen H. (2012). Estimating the costs of rearing young dairy cattle in the Netherlands using a simulation model that accounts for uncertainty related to diseases. *Preventive Veterinary Medicine*. 106(3-Apr): 214-224.	28
7	Bande F., Arshad S.S., Hassan L., Zakaria Z., Sapian N.A., Rahman N.A., Alazawy A. (2012). Prevalence and risk factors of feline leukaemia virus and feline immunodeficiency virus in peninsular Malaysia. *BMC Veterinary Research*. 8: 1-6.	20
8	Lim K.-L., Jazayeri S.D., Yeap S.K., Alitheen N.B.M., Bejo M.H., Ideris A., Omar A.R. (2012). Co-administration of avian influenza virus H5 plasmid DNA with chicken IL-15 and IL-18 enhanced	17

	chickens immune responses. *BMC Veterinary Research*. 8: 1-14.	
9	Ismail R., Allaudin Z.N., Lila M.A.M. (2012). Scaling-up recombinant plasmid DNA for clinical trial: Current concern, solution and status. *Vaccine*. 30(41): 5914-5920.	16
10	Shah A.H., Saleha A.A., Zunita Z., Cheah Y.K., Murugaiyah M., Korejo N.A. (2012). Genetic characterization of Arcobacter isolates from various sources. *Veterinary Microbiology*. 160(3-Apr): 355-361.	13
10	Rafidah O., Zamri-Saad M., Shahirudin S., Nasip E. (2012). Efficacy of intranasal vaccination of field buffaloes against haemorrhagic septicaemia with a live gdhA derivative Pasteurella multocida B:2. *Veterinary Record*. 171(7): 175-.	13
11	Selvarajah G.T., Verheije M.H., Kik M., Slob A., Rottier P.J.M., Mol J.A., Kirpensteijn J. (2012). Expression of epidermal growth factor receptor in canine osteosarcoma: Association with clinicopathological parameters and prognosis. *Veterinary Journal*. 193(2): 412-419.	12
11	Alemnesh W., Hair-Bejo M., Aini I., Omar A.R. (2012). Pathogenicity of Fowl Adenovirus in Specific Pathogen Free Chicken Embryos. *Journal of Comparative Pathology*. 146(2-Mar): 223-229.	12
12	Suriya R., Zulkifli I., Alimon A.R. (2012). The effect of dietary inclusion of herbs as growth promoter in broiler chickens. *Journal of Animal and Veterinary Advances*. 11(3): 346-350.	11
12	Mokaram Ghotoorlar S., Mehdi Ghamsari S., Nowrouzian I., Shiry Ghidary S. (2012). Lameness scoring system for dairy cows using force plates and artificial intelligence. *Veterinary Record*. 170(5): 126-.	11
13	Ramanoon S.Z., Robertson I.D., Edwards J., Hassan L., Md Isa K. (2012). Outbreaks of foot-and-mouth disease in Peninsular Malaysia from 2001 to 2007. *Tropical Animal Health and Production*. 45(1): 373-377.	9
13	Zamri H.F., Shamsudin M.N., Rahim R.A., Neela V. (2012). Oral vaccination with Lactococcus lactis expressing the Vibrio cholerae Wzm protein to enhance mucosal and systemic immunity. *Vaccine*. 30(21): 3231-3238.	9
13	Hassim H.A., Lourenço M., Goh Y.M., Baars J.J.P., Fievez V. (2012). Rumen degradation of oil palm fronds is improved through pre-digestion with white rot fungi but not through supplementation with yeast or enzymes. *Canadian Journal of Animal Science*. 92(1): 79-87.	9
13	Geidam Y.A., Zakaria Z., Aziz S.A., Bejo S.K., Abu J., Omar S. (2012). High prevalence of multi-drug resistant bacteria in selected poultry farms in Selangor, Malaysia. *Asian Journal of Animal and Veterinary Advances*. 7(9): 891-897.	9
14	Devendra C., Liang J.B. (2012). Conference summary of dairy goats	8

	in Asia: Current status, multifunctional contribution to food security and potential improvements. *Small Ruminant Research*. 108(1-Mar): 1-11.	
14	Jazayeri S.D., Ideris A., Zakaria Z., Yeap S.K., Omar A.R. (2012). Improved immune responses against avian influenza virus following oral vaccination of chickens with HA DNA vaccine using attenuated Salmonella typhimurium as carrier. *Comparative Immunology, Microbiology and Infectious Diseases*. 35(5): 417-427.	8
15	Osman A.Y., Abdullah F.F.J., Saharee A.A., Haron A.W., Sabri J., Abdullah R. (2012). Haematologi/cal and biochemical alterations in mice following experimental infection with whole cell and exotoxin (PLD) extracted from c. Pseudotuberculosis. *Journal of Animal and Veterinary Advances*. 11(24): 4660-4667.	6
15	Rahman M.A., Uehara T., Arshad A., Yusoff F.M., Shamsudin M.N. (2012). Absence of postzygotic isolating mechanisms: Evidence from experimental hybridization between two species of tropical sea urchins. *Journal of Zhejiang University: Science B*. 13(10): 797-810.	6
15	Adamu L., Noraniza M.A., Rasedee A., Bashir A. (2012). Metabolic responses in endurance horses during racing in relation to uric acid profile, leucocytes, heart rate and plasma biochemical parameters. *Veterinarni Medicina*. 57(11): 591-596.	6
16	Tohidi R., Idris I.B., Panandam J.M., Bejo M.H. (2012). The effects of polymorphisms in IL-2, IFN-γ, TGF-β2, IgL, TLR-4, MD-2, and iNOS genes on resistance to Salmonella Enteritidis in indigenous chickens. *Avian Pathology*. 41(6): 605-612.	5
16	Bamaiyi P.H., Abd-Razak N.S., Zainal M.A. (2012). Seroprevalence and economic impact of eradicating zoonotic brucellosis in Malaysia: A case study of Melaka state of Malaysia. *Veterinary World*. 5(7): 398-404.	5
16	Hezmee M.N.M., Shiels I.A., Rolfe B.E., Mills P.C. (2012). Complement C5a: Impact on the field of veterinary medicine. *Veterinary Journal*. 192(3): 264-271.	5
17	Majid N.M., Islam M.M., Enanee N. (2012). Heavy metal uptake and translocation by Semuloh (Fagopyrum dibotrys) from sawdust sludge contaminated soil. *Bulgarian Journal of Agricultural Science*. 18(6): 912-923.	4
17	Wai S.S., Saleha A.A., Zunita Z., Hassan L., Jalila A. (2012). Occurrence of co-infection of helicobacter pullorum and campylobacter spp. In broiler and village (Indigenous) chickens. *Pakistan Veterinary Journal*. 32(4): 503-506.	4
17	Bukar M.M., Yusoff R., Haron A.W., Dhaliwal G.K., Goriman Khan M.A., Omar M.A. (2012). Estrus response and follicular development in Boer does synchronized with flugestone acetate and PGF2α or their combination with eCG or FSH. *Tropical Animal Health and*	4

	Production. 44(7): 1505-1511.	
17	Bamaiyi P.H. (2012). Factors militating against the control of helminthosis in livestock in developing countries. *Veterinary World*. 5(1): 42-47.	4
17	Khan M.S.I., Akbar S.M.F., Hossain S.T., Mahatab M., Hossain M.M., Idrus Z. (2012). Possible route of transmission of highly pathogenic avian influenza virus type H5N1 in family poultry at rural Bangladesh. *Pakistan Veterinary Journal*. 32(1): 112-116.	4
17	Salisi M.S., Saad M.Z., Kasim A. (2012). Implementation of herd health program to improve survival of Boer goats in Malaysia. *Tropical Animal Health and Production*. 44(2): 207-211.	4
18	Bukar M.M., Rosnina Y., Ariff O.M., Wahid H., Mohd Azam Khan G.K., Yimer N., Dhaliwal G.K. (2012). Corpora lutea diameter, plasma progesterone concentration and follicular development in PGF2α and CIDR estrus synchronized goats. *Pakistan Veterinary Journal*. 32(2): 216-220.	3
18	Jesse F.F., Ramanoon S.Z. (2012). Hepatogenous photosensitization in cattle - A case report. *Veterinary World*. 5(12): 764-766.	3
18	Yusuf A.L., Ebrahimi M., Goh Y.M., Samsudn A.A., Idris A.B., Ahmon A.R., Sazili A.Q. (2012). In vitro digestibility of diets containing different parts of Andrographis paniculata using rumen fluid from goats. *Journal of Animal and Veterinary Advances*. 11(21): 3921-3927.	3
18	Adamu L., Noraniza, Abdullah R., Ahmad B. (2012). Alterations in biochemical, hematological and physical parameters in endurance horses with metabolic crisis. *Journal of Animal and Veterinary Advances*. 11(22): 4108-4114.	3
18	Khumran A.M., Rosnina Y., Anff M.O., Wahid H., Dhaliwala G., Khanh N.P., Yap K.C., Fahmi M., Azmil M.E. (2012). Comparison of estras response and pregnancy rates of beef cows synchronized with progesterone and prostaglandin-based protocols. *Journal of Animal and Veterinary Advances*. 11(19): 3561-3567.	3
18	Adamu L., Adzahan N.M., Abdullah R., Ahmad B. (2012). Changes in biochemical, hematological and cytokine in endurance horses with metabolic crises. *Journal of Animal and Veterinary Advances*. 11(18): 3431-3436.	3
18	Mazlan A.G., Chung Y.S., Zaidi C.C., Samat A., Arshad A., Seah Y.G., Alam G.M., Simon K.D. (2012). Meristic, morphometrics and Length-Weight Relationship of tropical silverside, Atherinomorus duodecimalis (Valenciennes in Cuvier and Valenciennes, 1835) in seagrass and mangrove habitats of Tinggi Island, Johor, Malaysia. *Asian Journal of Animal and Veterinary Advances*. 7(10): 921-927.	3
18	Zeryehun T., Hair-Bejo M., Rasedee A. (2012). Biochemical changes in specific-pathogen-free chicks infected with infectious bursal disease virus of Malaysian isolate. *Global Veterinaria*. 8(1): 8-14.	3

18	Salwani M.S., Sazili A.Q., Zulkifli L., Nizam Z., Zul Edham W. (2012). Effects of head-only electrical stunning on the physico-chemical characteristics and desmin degradation of broiler breast muscles at different time postmortem. *Journal of Animal and Veterinary Advances*. 11(14): 2409-2416.	3
19	Aghwan Z.A., Sazili A.Q., Alimon A.R., Goh Y.M., Hilmi M.A. (2012). Effects of dietary inorganic iodine and selenium on their concentrations in serum, muscle and organs in Kacang goats. *Journal of Animal and Veterinary Advances*. 11(21): 3894-3897.	2
19	Yimer N., Rosnina Y., Wahid H., Bukar M.M., Malik A., Yap K.C., Fahmi M., Ganesamurthi P., Saharee A.A. (2012). Fecal progestin extraction and analysis for non-invasive monitoring of ovarian cycle in beef cows. *Pakistan Veterinary Journal*. 32(4): 584-588.	2
19	Soleimani A.F., Zulkifli I., Hair-Bejo M., Ebrahimi M., Jazayeri S.D., Hashemi S.R., Meimandipour A., Goh Y.M. (2012). Epigenetic modification: possible approach to reduce Salmonella enterica serovar enteritidis susceptibility under stress conditions. *Avian Pathology*. 41(4): 351-354.	2
19	Zulkifli I., Al-Aqil A., Sazili A.Q. (2012). Fear-related behaviour, muscle glycogen stores and serum creatine kinase activity in transported broiler chickens as affected by housing and early age feed restriction. *Journal of Animal and Veterinary Advances*. 11(3): 364-369.	2
20	Wahid H., Thein M., El-Hafez E.A., Abas M.O., Azam K.M., Fauziah O., Rosnina Y., Hajarian H. (2012). Structural changes in cattle immature oocytes subjected to slow freezing and vitrification. *Pakistan Veterinary Journal*. 32(2): 188-192.	1
20	Abdinasir Y.O., Jesse F.F.A., Saharee A.A., Jasni S., Khairani-Bejo S., Haron A.W. (2012). Acute phase response in mice experimentally infected with whole cell and exotoxin (PLD) extracted from Corynebacterium pseudotuberculosis. *Journal of Animal and Veterinary Advances*. 11(21): 4008-4012.	1
20	Abdinasir Y.O., Jesse F.F.A., Saharee A.A., Jasni S., Khairani-Bejo S., Haron A.W. (2012). Clinico-pathological changes in mice following experimental infection with whole cell and exotoxin (PLD) extracted from C. Pseudotuberculosis. *Journal of Animal and Veterinary Advances*. 11(21): 4064-4072.	1
20	Leo T.K., Leslie D.E., Loo S.S., Ebrahimi M., Aghwan Z.A., Panandam J.M., Alimon A.R., Karsani S.A., Sazili A.Q. (2012). An evaluation on growth performance and carcass characteristics of integration (oil palm plantation) and feedlot finished bali cattle. *Journal of Animal and Veterinary Advances*. 11(18): 3427-3430.	1
20	Amat A.C., Gabriel B., Chee N.W. (2012). Cystic calculi removal in African spurred tortoise (Geochelone sulcata) using transplstron coeliotomy. *Veterinary World*. 5(8): 489-492.	1

20	Zakaria A., Yaakub H., Radziah O., Alimon A.R. (2012). Effect of bacteria inoculants on corn silage quality. *Animal Nutrition and Feed Technology*. 12(1): 55-62.	1
20	Mohajer M., Alimon A.R., Yaakub H.B., Naslaji A.N., Toghdory A. (2012). Effects of energy level and pmsg dose on reproductive performance of zel ewes bred to shal or zel rams. *Journal of Animal and Veterinary Advances*. 11(6): 809-813.	1
20	Khanh N.P., Rosnina Y., Omar M.A., Dhaliwal G.K., Wahid H., Khumran A.M., Yap K.C., Fahmi M., Azmil A. (2012). Effects of biostimulation on oestrus behaviour, ovulation time and conception rate in primiparous and multiparous beef cows. *Journal of Animal and Veterinary Advances*. 11(3): 404-411.	1
20	Zulkifli I., Hashemi S.R., Somchit M.N., Zunita Z., Loh T.C., Soleimani A.F., Tang S.C. (2012). Effects of Euphorbia hirta and virginiamycin supplementation to the diet on performance, digestibility, and intestinal microflora population in broiler chickens [Einfluss des Zusatzes von Euphorbia hirta und Virginiamycin zum Futter auf die Leistung, die. *Archiv fur Geflugelkunde*. 76(1): 6-12.	1

Penerbitan Pegawai UPM tahun 2012 dalam bidang Veterinar - 66 penerbitan
UPM Officers publications in 2012 in the Field of Veterinary - 66 publications

Jadual 46. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2013 Bidang Veterinar

Table 46. Top Twenty Citations of UPM Officers Publications Published in 2013 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Shah A.H., Saleha A.A., Zunita Z., Murugaiyah M., Aliyu A.B., Jafri N. (2013). Prevalence, Distribution and Antibiotic Resistance of Emergent Arcobacter spp. from Clinically Healthy Cattle and Goats. *Transboundary and Emerging Diseases*. 60(1): 9-16.	25
2	Tan T.C., Tan P.C., Sharma R., Sugnaseelan S., Suresh K.G. (2013). Genetic diversity of caprine Blastocystis from Peninsular Malaysia. *Parasitology Research*. 112(1): 85-89.	23
3	Rahman M.A., Arshad A., Marimuthu K., Ara R., Amin S.M.N. (2013). Inter-specific hybridization and its potential for aquaculture of fin fishes. *Asian Journal of Animal and Veterinary Advances*. 8(2): 139-153.	18
4	Amal M.N.A., Zamri-Saad M., Siti-Zahrah A., Zulkafli A.R. (2013). Transmission of Streptococcus agalactiae from a hatchery into a newly established red hybrid tilapia, Oreochromis niloticus (L.) × Oreochromis mossambicus (Peters), farm. *Journal of Fish Diseases*. 36(8): 735-739.	17
5	Pande G.S.J., Natrah F.M.I., Sorgeloos P., Bossier P., Defoirdt T. (2013). The Vibrio campbellii quorum sensing signals have a different impact on virulence of the bacterium towards different crustacean hosts. *Veterinary Microbiology*. 167(3-Apr): 540-545.	16
5	Lau S.F., Wolschrijn C.F., Hazewinkel H.A.W., Siebelt M., Voorhout G. (2013). The early development of medial coronoid disease in growing Labrador retrievers: Radiographic, computed tomographic, necropsy and micro-computed tomographic findings. *Veterinary Journal*. 197(3): 724-730.	16
6	Adamu L., Noraniza M.A., Rasedee A., Bashir A. (2013). Effect of age and performance on physical, hematological, and biochemical parameters in endurance horses. *Journal of Equine Veterinary Science*. 33(6): 415-420.	15
6	Abubakar M.S., Zamri-Saad M., Jasni S. (2013). Ultrastructural changes and bacterial localization in buffalo calves following oral exposure to Pasteurella multocida B: 2. *Pakistan Veterinary Journal*. 33(1): 101-106.	15
7	Abdullah F.F.J., Osman A.Y., Adamu L., Zakaria Z., Abdullah R.,	13

	Zamri-Saad M., Saharee A.A. (2013). Acute phase protein profiles in calves following infection with whole cell, lipopolysaccharide and outer membrane protein extracted from Pasteurella multocida Type B: 2. *Asian Journal of Animal and Veterinary Advances*. 8(4): 655-662.	
8	Khaleel M.M., Abdullah F.F.J., Adamu L., Osman A.Y., Haron A.W., Saad M.Z., Omar A.R. (2013). Acute phase protein responses in mice infected with river water contaminated by Pasteurella multocida type B: 2. *American Journal of Animal and Veterinary Sciences*. 8(3): 159-164.	12
8	Lau S.F., Hazewinkel H.A.W., Grinwis G.C.M., Wolschrijn C.F., Siebelt M., Vernooij J.C.M., Voorhout G., Tryfonidou M.A. (2013). Delayed endochondral ossification in early medial coronoid disease (MCD): A morphological and immunohistochemical evaluation in growing Labrador retrievers. *Veterinary Journal*. 197(3): 731-738.	12
8	Abdullah F.F.J., Osman A.Y., Lawan A., Mohd yusof M.S., Omar A.R., Saharee A.A., Haron A.W., Abdullah R., Zamri-Saad M. (2013). Polymerase chain reaction detection of Pasteurella multocida type B:2 in mice following oral inoculation. *Asian Journal of Animal and Veterinary Advances*. 8(3): 493-501.	12
9	Syed-Hussain S.S., Howe L., Pomroy W.E., West D.M., Smith S.L., Williamson N.B. (2013). Detection of Neospora caninum DNA in semen of experimental infected rams with no evidence of horizontal transmission in ewes. *Veterinary Parasitology*. 197(3-Apr): 534-542.	11
9	Idris I., Arshad A. (2013). Checklist of polychaetous annelids in Malaysia with redescription of two commercially exploited species. *Asian Journal of Animal and Veterinary Advances*. 8(3): 409-436.	11
9	Malik A., Haron A.W., Yusoff R., Nesa M., Bukar M., Kasim A. (2013). Evaluation of the ejaculate quality of the red jungle fowl, domestic chicken, and bantam chicken in malaysia. *Turkish Journal of Veterinary and Animal Sciences*. 37(5): 564-568.	11
10	Anka M.S., Hassan L., Adzhar A., Khairani-Bejo S., Mohamad R.B., Zainal M.A. (2013). Bovine brucellosis trends in Malaysia between 2000 and 2008. *BMC Veterinary Research*. 9: 1-10.	10
10	Abubakr A.R., Alimon A.R., Yaakub H., Abdullah N., Ivan M. (2013). Growth, nitrogen metabolism and carcass composition of goats fed palm oil by-products. *Small Ruminant Research*. 112(1-Mar): 91-96.	10
10	Hossain M.B., Amin S.M.N., Shamsuddin M., Minar M.H. (2013). Use of aqua-chemicals in the hatcheries and fish farms of greater Noakhali, Bangladesh. *Asian Journal of Animal and Veterinary Advances*. 8(2): 401-408.	10
11	Lim K.-L., Jazayeri S.D., Yeap S.K., Mohamed Alitheen N.B., Bejo M.H., Ideris A., Omar A.R. (2013). Antibody and T cell responses induced in chickens immunized with avian influenza virus N1 and NP DNA vaccine with chicken IL-15 and IL-18. *Research in Veterinary Science*. 95(3): 1224-1234.	9

11	Abdullah F.F.J., Khaleel M.M., Adamu L., Osman A.Y., Haron A.W., Saad M.Z., Omar A.R. (2013). Polymerase chain reaction detection of Pasteurella multocida type B: 2 in mice infected with contaminated river water. *American Journal of Animal and Veterinary Sciences*. 8(3): 146-151.	9
11	Abdullah F.F.J., Adamu L., Osman A.Y., Saad M.Z., Zakaria Z., Abdullah R., Saharee A.A. (2013). Acute phase protein profile and clinico-pathological changes in mice associated with the infection of pasteurella multocida type B and the bacterial lipopolysaccharide and outer membrane protein imminogens. *Journal of Animal and Veterinary Advances*. 12(2): 186-193.	9
11	Ho W.S., Tan L.K., Ooi P.T., Yeo C.C., Thong K.L. (2013). Prevalence and characterization of verotoxigenic-Escherichia coli isolates from pigs in Malaysia. *BMC Veterinary Research*. 9: 1-7.	9
12	Emikpe B.O., Tanko P.N., Onilude O.M., Sabri M.Y. (2013). The influence of dexamethasone treatment and successive road transport stress on theoccurrence of caprine pneumonia in a hot humid tropical environment. *Veterinary World*. 6(8): 497-501.	8
12	Rozihan M., Ismail E., John B.A., Jalal K.C.A., Mohd-Adnan A. (2013). Genetic diversity of horseshoe crab (Tachypleus gigas) in Malaysia revealed using microsatellite markers. *Asian Journal of Animal and Veterinary Advances*. 8(1): 63-72.	8
13	Abdullah F.F.J., Yusuf Osman A., Adamu L., Zakaria Z., Abdullah R., Zamri-Saad M., Saharee A.A. (2013). Haematological and biochemical alterations in calves following infection with Pasteurella multocida type B: 2, Bacterial Lipopolysaccharide and outer Membrane Protein immunogens (OMP). *Asian Journal of Animal and Veterinary Advances*. 8(6): 806-813.	7
13	Loh T.C., Thu T.V., Foo H.L., Bejo M.H. (2013). Effects of different levels of metabolite combination produced by Lactobacillus plantarum on growth performance, diarrhoea, gut environment and digestibility of postweaning piglets. *Journal of Applied Animal Research*. 41(2): 200-207.	7
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13	Al-Barwani S.M., Arshad A., Amin S.M.N., Bujang J.S. (2013). Incidence of hermaphrodite in green mussel Perna viridis along the west coast of Peninsular Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 376-382.	7
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14	Argungu L.A., Christianus A., Amin S.M.N., Daud S.K., Sirsaj S.S., Rahman M.A. (2013). Asian catfish clarias batrachus (linnaeus, 1758) getting critically endangered. *Asian Journal of Animal and Veterinary Advances*. 8(2): 168-176.	6
14	Nur F.A.H., Christianus A. (2013). Breeding and life cycle of Neocaridina denticulata sinensis (Kemp, 1918). *Asian Journal of Animal and Veterinary Advances*. 8(1): 108-115.	6
15	Olaniyi A.O., Abdullah A.M., Ramli M.F., Sood A.M. (2013). Agricultural land use in Malaysia: An historical overview and implications for food security. *Bulgarian Journal of Agricultural Science*. 19(1): 60-69.	5
15	Cao Z., Gong Y.L., Liao X.D., Liang J.B., Yu B., Wu Y.B. (2013). Effect of dietary fiber on methane production in Chinese Lantang gilts. *Livestock Science*. 157(1): 191-199.	5
15	Lau S.F., Wolschrijn C.F., Siebelt M., Vernooij J.C.M., Voorhout G., Hazewinkel H.A.W. (2013). Assessment of articular cartilage and subchondral bone using EPIC-microCT in Labrador retrievers with incipient medial coronoid disease. *Veterinary Journal*. 198(1): 116-121.	5
15	Ebrahimi M., Rajion M.A., Goh Y.M., Sazili A.Q., Soleimani A.F., Schonewille J.T. (2013). Oil palm (elaeis guineensis jacq.) frond feeding of goats in the humid tropics. *Journal of Animal and Veterinary Advances*. 12(4): 431-438.	5
15	Emikpe B.O., Ezeasor C.K., Sabri M.Y., Anosa V.O. (2013). Clinicopathological evaluation of intranasal, subcutaneous and intramuscular routes of vaccination against intratracheal challenge of Peste des petits ruminants virus in goats. *Small Ruminant Research*. 113(1): 290-296.	5
15	Ismail S., Kamarudin M.S., Ramezani-Fard E. (2013). Performance of commercial poultry offal meal as fishmeal replacement in the diet of juvenile Malaysian mahseer, Tor tambroides. *Asian Journal of Animal and Veterinary Advances*. 8(2): 284-292.	5
15	Usman B.I., Amin S.M.N., Arshad A., Rahman M.A. (2013). Review of some biological aspects and fisheries of grey-eel catfish plotosus canius (Hamilton, 1822). *Asian Journal of Animal and Veterinary Advances*. 8(2): 154-167.	5
15	Adebiyi F.A., Siraj S.S., Harmin S.A., Christianus A. (2013). Embryonic and larval development of river catfish, hemibagrus nemurus (Valenciennes, 1840). *Asian Journal of Animal and Veterinary Advances*. 8(2): 237-246.	5

16	Neela V., Ghaznavi-Rad E., Ghasemzadeh-Moghaddam H., Nor Shamsudin M., Van Belkum A., Karunanidhi A. (2013). Frequency of methicillin resistant Staphylococcus aureus in the noses of Malaysian chicken farmers and their chicken. *Iranian Journal of Veterinary Research*. 14(3): 226-231.	4
16	Abdullah F.F.J., Adamu L., Osman A.Y., Haron A.W., Saharee A.A., Abdullah R., Saad M.Z., Zakaria Z. (2013). Biochemical and hematological alterations in mice inoculated with outer membrane protein, lipopolysaccharides and whole cells of Pasteurella multocida type B: 2. *American Journal of Animal and Veterinary Sciences*. 8(3): 152-158.	4
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16	Elshafie E.I., Sani R.A., Hassan L., Sharma R., Bashir A., Abubakar I.A. (2013). Seroprevalence and risk factors of Trypanosoma evansi infection in horses in Peninsular Malaysia. *Research in Veterinary Science*. 94(2): 285-289.	4
16	Rafidah O., Zamri-Saad M. (2013). Effect of dexamethasone on protective efficacy of live gdhA derivative Pasteurella multocida B:2 vaccine. *Asian Journal of Animal and Veterinary Advances*. 8(3): 548-554.	4
16	Rahman M.A., Arshad A., Amin S.M.N., Shamsudin M.N. (2013). Growth and survival of fingerlings of a threatened snakehead, channa striatus (bloch) in earthen nursery ponds. *Asian Journal of Animal and Veterinary Advances*. 8(2): 216-226.	4
17	Sandoval B.J., Amat A.C., Sabri J., Ramli M.N. (2013). Intralesional vincristine use for treatment of squamous cell carcinoma in a puma (puma concolor). *Journal of Zoo and Wildlife Medicine*. 44(4): 1059-1062.	3
17	Abuelfatah K., Zuki A.B.Z., Goh Y.M., Sazili A.Q. (2013). Effects of dietary N-3 fatty acids on growth performance, apparent digestibility and carcass characteristics of crossbred boer goat under tropical conditions. *Asian Journal of Animal and Veterinary Advances*. 8(6): 775-785.	3
17	Sarsaifi K., Omar M.-A., Yusoff R.H., Haron A.-W., Hani H., Yimer N., Vejayan J., Naing S.W., Othman A.-M. (2013). Development of superovulation program and heterologous in vitro fertilization test assessment in hamsters. *Asian Journal of Animal and Veterinary Advances*. 8(6): 796-805.	3
17	Dahlan I., Dawend J. (2013). Growth and reproductive performance of sambar deer in Sabal Forest Reserve of Sarawak, Malaysia. *Tropical Animal Health and Production*. 45(7): 1469-1476.	3
17	Mahre M.B., Wahid H., Rosnina Y., Jesse F.F.A., Azlan C.A., Yap K.C.	3

	(2013). Plasma progesterone changes and length of oestrous cycle in Rusa Deer (Rusa timorensis). *Animal Reproduction Science*. 141(3-Apr): 148-153.	
17	Hasheimi S.R., Zulkifli I., Somchit M.N., Zunita Z., Loh T.C., Soleimani A.F., Tang S.C. (2013). Dietary supplementation of Zingiber officinale and Zingiber zerumbet to heat-stressed broiler chickens and its effect on heat shock protein 70 expression, blood parameters and body temperature. *Journal of Animal Physiology and Animal Nutrition*. 97(4): 632-638.	3
17	Ramezani-Fard E., Kamarudin M.S. (2013). Effects of vegetable oil source and dietary vegetable-fish oil ratio on the histological alterations of liver and intestine of juvenile Malaysian mahseer, tor tambroides. *Asian Journal of Animal and Veterinary Advances*. 8(2): 309-316.	3
17	Shakibazadeh S., Christianus A., Hajeb P. (2013). Blood cell histology of horseshoe crab, Tachypleus gigas. *Asian Journal of Animal and Veterinary Advances*. 8(2): 275-283.	3
17	Far H.Z., Saad C.R.B., Daud H.M., Kamarudin M.S., Ramezani-Fard E. (2013). Isolation and identification of bacteria micro flora of white shrimp, litopenaeus vannamei, with antagonistic properties against Vibrio species. *Asian Journal of Animal and Veterinary Advances*. 8(2): 293-300.	3
17	Bernard V.H., Nurhidayu A., Ina-Salwany M.Y., Abdelhadi Y. (2013). Bacillus cereus; JAQ04 strain as a potential probiotic for red tilapia; Oreochromis species. *Asian Journal of Animal and Veterinary Advances*. 8(2): 395-400.	3
17	Ramezani-Fard E., Kamarudin M.S., Harmin S.A. (2013). Endocrine control of oogenesis in teleosts. *Asian Journal of Animal and Veterinary Advances*. 8(2): 205-215.	3
17	Banerjee S., Kim L.M., Shariff M., Khatoon H., Yusoff F.M. (2013). Antibacterial activity of neem (Azadirachta indica) leaves on Vibrio spp. isolated from cultured shrimp. *Asian Journal of Animal and Veterinary Advances*. 8(2): 355-361.	3
17	Yee L.C., Ina-Salwany M.Y., Abdelhadi Y.M. (2013). Antibacterial ability and molecular characterization of probionts isolated from gut microflora of cultured red tilapia. *Asian Journal of Animal and Veterinary Advances*. 8(1): 116-123.	3
17	Ara R., Arshad A., Amin S.M.N., Mazlan A.G. (2013). Temporal and spatial distribution of larval fish assemblage in different ecological habitat in Johor Strait, Peninsular Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(1): 53-62.	3
18	Noraini O., Jahwarhar N.A., Sabri M.Y., Emikpe B.O., Tanko P.N., Latifah M.H., Jamil S. (2013). The effect of heat stress on clinicopathological changes and immunolocalization of antigens in experimental streptococcus agalactiae infection in red hybrid tilapia	2

	(oreochromis spp.). *Veterinary World*. 6(12): 997-1003.	
18	Reza Sanaei M., Abu J., Nazari M., A.B. M.Z., Allaudin Z.N. (2013). Qualitative and quantitative evaluation of avian demineralized bone matrix in heterotopic beds. *Veterinary Surgery*. 42(8): 963-970.	2
18	Abdullah F.F.J., Adamu L., Hazirah N., Osman A.Y., Mansor R., Haron A.W., Saad M.Z., Omar A.R., Saharee A.A. (2013). Clinical and reproductive pathological changes associated with Brucella melitensis and its lipopolysaccharides in female mice via oral inoculation. *American Journal of Animal and Veterinary Sciences*. 8(3): 104-111.	2
18	Sirajuddin S.N., Siregar H., Amidah Amrawaty A., Jusoff K., Nurlaelah S., Rohani S., Hastang (2013). Comparative advantage analysis on self dependent and business partnership of dairy farmers. *Global Veterinaria*. 10(2): 165-170.	2
18	Faizul M.I.M., Faizal M.M., Christianus A., Amin S.M.N. (2013). Incubation and hatching of Tachypleus gigas (Muller, 1785) eggs in sand and water media. *Asian Journal of Animal and Veterinary Advances*. 8(2): 333-340.	2
18	Rahman M.A., Yusoff F.M., Arshad A., Amin S.M.N., Shamsudin M.N. (2013). Population characteristics and fecundity estimates of short-spined white sea urchin, Salmacis sphaeroides (Linnaeus, 1758) from the coastal waters of Johor, Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 301-308.	2
18	Rahman M.A., Arshad A., Yusoff F.M., Amin S.M.N. (2013). Hybridization and growth of tropical sea urchins. *Asian Journal of Animal and Veterinary Advances*. 8(2): 177-193.	2
18	Fathi H.B., Othman M.S., Mazlan A.G., Arshad A., Amin S.M.N., Simon K.D. (2013). Trace metals in muscle, liver and gill tissues of marine fishes from Mersing, eastern coast of peninsular Malaysia: Concentration and assessment of human health risk. *Asian Journal of Animal and Veterinary Advances*. 8(2): 227-236.	2
18	Arshad A., Ara R., Amin S.M.N., Mazlan A.G. (2013). Diet composition in larval fishes of the family Terapontidae (Actinopterygii: Perciformes) in the seagrass-bed of Johor Strait, Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 325-332.	2
18	Al-Barwani S.M., Aziz D., Amin S.M.N., Arshad A. (2013). Microsatellite DNA marker analysis in brown mussels, Perna perna (Linnaeus, 1758) from the coastal waters of Oman. *Asian Journal of Animal and Veterinary Advances*. 8(2): 317-324.	2
18	Sulaiman S.F.B., Afizi K., Salim M., Shamsudin M.N., Abdelhadi Y.M. (2013). Herbal sensitivity of Pseudomonas bacteria isolated from cultured tilapia with useful applications in vaccine preparation. *Asian Journal of Animal and Veterinary Advances*. 8(2): 383-388.	2
18	Muntaziana M.P.A., Amin S.M.N., Aminur Rahman M., Rahim A.A.,	2

	Marimuthu K. (2013). Present culture status of the endangered snakehead, Channa striatus (Bloch, 1793). *Asian Journal of Animal and Veterinary Advances*. 8(2): 369-375.	
18	Usman B.I., Amin S.M.N., Arshad A., Aminur Rahman M. (2013). Fecundity and egg size of grey-eel catfish Plotosus Canius (Hamilton, 1822) from the coastal waters of Kampong Telok, Negeri Sembilan Peninsular Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 348-354.	2
18	Erna N.M., Banerjee S., Shariff M., Yusoff F.M. (2013). Screening, identification and immobilization of ammonia oxidizing bacterial consortium collected from mangrove areas and shrimp farms. *Asian Journal of Animal and Veterinary Advances*. 8(1): 73-81.	2
19	Reddy M.S., Fatimah M.Y., Naresh B., Devi P. (2013). Isolation and characterization of marine beneficial bacteria from petroleum contaminated sites for better environment of animal life. *Asian Journal of Animal and Veterinary Advances*. 8(7): 841-851.	1
19	Azuadi N.M., Siraj S.S., Daud S.K., Christianus A., Harmin S.A., Sungan S., Britin R. (2013). Induced ovulation, embryonic and larval development of Malaysian mahseer, Tor tambroides (Bleeker, 1854) in captivity. *Asian Journal of Animal and Veterinary Advances*. 8(6): 761-774.	1
19	Royan M., Meng G.Y., Othman F., Sazili A.Q., Hanachi P. (2013). Effects of dietary combination of conjugated linoleic acid with fish oil or soybean oil on fatty acid composition of broiler meat [Einfluss einer Kombination von CLA mit fischöl oder sojaöl im futter auf das fettsäuremuster von Broilerfleisch]. *Archiv fur Geflugelkunde*. 77(3): 189-198.	1
19	Samiei A., Liang J.B., Ghorbani G.R., Hirooka H., Ansari-Mahyari S., Sadri H. (2013). Prevalence of ketosis and its correlation with lactation stage, parity and peak of milk yield in Iran. *Asian Journal of Animal and Veterinary Advances*. 8(4): 604-612.	1
19	Anna A.A., Hisham M.N., Khadijah W.E.W., Abdullah R.B. (2013). Comparative study on goat oocyte recovery methods and factors affecting the quantity and quality of oocytes. *Asian Journal of Animal and Veterinary Advances*. 8(3): 437-448.	1
19	Buhari S., Kalthum H., Goh Y.M., Gan S.H. (2013). Influence of surgery on the pharmacokinetics of tramadol following intravenous administration in dogs. *Asian Journal of Animal and Veterinary Advances*. 8(3): 483-492.	1
19	Arshad A., Amin S.M.N., Izzah W.N., Aziz D., Ara R. (2013). Morphometric variation among the populations of planktonic shrimp, acetes japonicus in the west coast of peninsular Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 194-204.	1
19	Ara R., Arshad A., Amin S.M.N., Mazlan A.G., Rahman M.A. (2013). Feeding ecology and nursery of marine larval fishes. *Asian Journal of*	1

	Animal and Veterinary Advances. 8(2): 266-274.	
19	Ara R., Amin S.M.N., Mazlan A.G., Arshad A. (2013). Morphometric variation among six families of larval fishes in the seagrass-mangrove ecosystem of Gelang Patah, Johor, Malaysia. *Asian Journal of Animal and Veterinary Advances*. 8(2): 247-256.	1
19	Hazmadi Zakaria M., Amin S.M.N., Aminur Rahman M., Hatta Mahmud M., Christianus A., Siraj S.S., Arshad A. (2013). Embryonic and larval development of endangered temoleh, Probarbus jullieni (Sauvage). *Asian Journal of Animal and Veterinary Advances*. 8(2): 362-368.	1
19	Intan K.Z., Christianus A., Amin S.M.N., Muhamad Hatta M. (2013). Breeding and embryonic development of Hampala macrolepidota (Van Hasselt and Kuhl, 1823). *Asian Journal of Animal and Veterinary Advances*. 8(2): 341-347.	1
19	Wong N.L., Arshad A. (2013). Induced spawning and early development of modiolus philippinarum (Hanley, 1843) (Bivalvia: Mytilidae). *Asian Journal of Animal and Veterinary Advances*. 8(1): 100-107.	1
19	Teh J.C., Kamarudin M.S., Abd-Rahim A., Saad C.R., Ramezani-Fard E. (2013). Effects of feeding frequency on the survival, growth and body composition of buffalo leech, hirudinaria manillensis. *Asian Journal of Animal and Veterinary Advances*. 8(1): 130-134.	1
19	Adamu L., Noraniza M.A., Rasedee A., Bashir A. (2013). Metabolic responses of acute phase protein, antioxidant and cytokine in Arabian Endurance horses. *Comparative Exercise Physiology*. 9(1): 51-57.	1

Penerbitan Pegawai UPM tahun 2013 dalam bidang Veterinar - 94 penerbitan
UPM Officers publications in 2013 in the Field of Veterinary

Jadual 47. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2014 Bidang Veterinar

Table 47. Top Twenty Citations of UPM Officers Publications Published in 2014 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Jaafar N.M., Clode P.L., Abbott L.K. (2014). Microscopy observations of habitable space in biochar for colonization by fungal hyphae from soil. *Journal of Integrative Agriculture*. 13(3): 483-490.	40
2	Rasoli M., Yeap S.K., Tan S.W., Moeini H., Ideris A., Bejo M.H., Alitheen N.B.M., Kaiser P., Omar A.R. (2014). Alteration in lymphocyte responses, cytokine and chemokine profiles in chickens infected with genotype VII and VIII velogenic Newcastle disease virus. *Comparative Immunology, Microbiology and Infectious Diseases*. 37(1): 11-21.	24
3	Tan T.K., Panchadcharam C., Low V.L., Lee S.C., Ngui R., Sharma R.S.K., Lim Y.A.L. (2014). Co-infection of Haemonchus contortus and Trichostrongylus spp. among livestock in Malaysia as revealed by amplification and sequencing of the internal transcribed spacer II DNA region. *BMC Veterinary Research*. 10: 1-7.	16
3	Traub R.J., Pednekar R.P., Cuttell L., Porter R.B., Abd Megat Rani P.A., Gatne M.L. (2014). The prevalence and distribution of gastrointestinal parasites of stray and refuge dogs in four locations in India. *Veterinary Parasitology*. 205(1-Feb): 233-238.	16
4	Loh T.C., Choe D.W., Foo H.L., Sazili A.Q., Bejo M.H. (2014). Effects of feeding different postbiotic metabolite combinations produced by Lactobacillus plantarum strains on egg quality and production performance, faecal parameters and plasma cholesterol in laying hens. *BMC Veterinary Research*. 10: 1-9.	14
5	Bamaiyi P.H., Hassan L., Khairani-Bejo S., ZainalAbidin M., Ramlan M., Krishnan N., Adzhar A., Abdullah N., Hamidah N.H.M., Norsuhanna M.M., Hashim S.N. (2014). Case-control study on risk factors associated with Brucella Melitensis in goat farms in Peninsular Malaysia. *Tropical Animal Health and Production*. 46(5): 739-745.	13
5	Zain N.A.M., Ismail M.R., Puteh A., Mahmood M., Islam M.R. (2014). Impact of cyclic water stress on growth, Physiological responses and yield of rice (Oryza sativa l.) grown in tropical environment [Impacto do estresse hídrico cíclico sobre o crescimento, As respostas fi siológicas e rendimento de arroz (Oryza sativa L.)]. *Ciencia Rural*. 44(12): 2136-2141.	13

6	Sing K.-W., Kamarudin M.S., Wilson J.-J., Sofian-Azirun M. (2014). Evaluation of blowfly (Chrysomya megacephala) maggot meal as an effective, sustainable replacement for fishmeal in the diet of farmed juvenile red tilapia (Oreochromis sp.). *Pakistan Veterinary Journal*. 34(3): 288-292.	12
6	Subramaniam K., Shariff M., Omar A.R., Hair-Bejo M., Ong B.L. (2014). Detection and molecular characterization of infectious spleen and kidney necrosis virus from major ornamental fish breeding states in Peninsular Malaysia. *Journal of Fish Diseases*. 37(7): 609-618.	12
7	Annas S., Zamri-Saad M., Jesse F.F.A., Zunita Z. (2014). New sites of localisation of Pasteurella multocida B:2 in buffalo surviving experimental haemorrhagic septicaemia. *BMC Veterinary Research*. 10: 1-7.	10
8	Khaleel M.M., Abdullah F.F.J., Adamu L., Abba Y., Haron A.W., Saad M.Z., Omar A.R. (2014). Histopathological changes in mice infected with river water contaminated by Pasteurella Multocida type B:2. *American Journal of Animal and Veterinary Sciences*. 9(2): 71-76.	8
8	Bok H.G.J., Teunissen P.W., Boerboom T.B.B., Rhind S.M., Baillie S., Tegzes J., Annandale H., Matthew S., Torgersen A., Hecker K.G., Härdi-Landerer C.M., Gomez-Lucia E., Ahmad B., Muijtjens A.M.M., Jaarsma D.A.D.C., van der Vleuten C.P.M., van Beukelen P. (2014). International survey of veterinarians to assess the importance of competencies in professional practice and education. *Journal of the American Veterinary Medical Association*. 245(8): 906-913.	8
9	Marimuthu M., Abdullah F.F.J., Mohammed K., Poshpum S.S., Adamu L., Osman A.Y., Abba Y., Tijjani A. (2014). Prevalence and antimicrobial resistance assessment of subclinical mastitis in milk samples from selected dairy farms. *American Journal of Animal and Veterinary Sciences*. 9(1): 65-70.	7
9	Haron A.W., Jesse Abdullah F.F., Tijjani A., Abba Y., Adamu L., Mohammed K., Mohammed Amir A.M., Sadiq M.A., Mohd Lila M.A. (2014). The use of Na+ and K+ ion concentrations as potential diagnostic indicators of subclinical mastitis in dairy cows. *Veterinary World*. 7(11): 966-969.	7
9	Yimer N., Noraisyah A.H., Rosnina Y., Wahid H., Sarsaifi K, Hafizal A.M. (2014). Comparison of cryopreservative effect of different levels of omega-3 egg-yolk in citrate extender on the quality of goat spermatozoa. *Pakistan Veterinary Journal*. 34(3): 347-350.	7
9	Siti-Zahrah A., Zamri-Saad M., Firdaus-Nawi M., Hazreen-Nita M.K., Nur-Nazifah M. (2014). Detection of channel catfish virus in cage-cultured Pangasius hypophthalmus (Sauvage, 1878) in Malaysia. *Journal of Fish Diseases*. 37(11): 981-983.	7
9	Low C.-F., Shamsudin M.N., Chee H.-Y., Aliyu-Paiko M., Idrus E.S. (2014). Putative apolipoprotein A-I, natural killer cell enhancement	7

	factor and lysozyme g are involved in the early immune response of brown-marbled grouper, Epinephelus fuscoguttatus, Forskal, to Vibrio alginolyticus. *Journal of Fish Diseases*. 37(8): 693-701.	
9	Aniesona A.T., Bamaiyi P.H. (2014). Retrospective Study of Cryptosporidiosis Among Diarrhoeic Children in the Arid Region of North-Eastern Nigeria. *Zoonoses and Public Health*. 61(6): 420-426.	7
10	Archawakulathep A., Thi Kim C.T., Meunsene D., Handijatno D., Hassim H., Rovira H.R.G., Myint K.S., Baldrias L.R., Sothy M., Aung M., Wahyu N.H., Chea R., Boonmasawai S., Vannamahaxay S., Angkititrakul S., Collantes T.M.A., Van T.N., Punyapornwithaya V., (2014). Perspectives on antimicrobial resistance in livestock and livestock products in ASEAN countries. *Thai Journal of Veterinary Medicine*. 44(1): 5-13.	6
10	Nikbin S., Panandam J.M., Yaakub H., Murugaiyah M., Sazili A.Q. (2014). Novel SNPs in heat shock protein 70 gene and their association with sperm quality traits of Boer goats and Boer crosses. *Animal Reproduction Science*. 146(3-Apr): 176-181.	6
11	Ali O.S., Adamu L., Abdullah F.F.J., Ilyasu Y., Abba Y., Hamzah H.B., Mohd-Azmi M.L., Haron A.W.B., Saad M.Z.B. (2014). Alterations in interleukin-1β and interleukin-6 in mice inoculated through the oral routes using graded doses of P. Multocida type B: 2 and its lipopolysaccharide. *American Journal of Animal and Veterinary Sciences*. 9(4): 177-184.	5
11	Dyary H.O., Arifah A.K., Sharma R.S.K., Rasedee A. (2014). Antitrypanosomal and cytotoxic activities of selected medicinal plants and effect of Cordyline terminalis on trypanosomal nuclear and kinetoplast replication. *Pakistan Veterinary Journal*. 34(4): 444-448.	5
11	Safaei M., Boldaji F., Dastar B., Hassani S., Mutalib M.S.A., Rezaei R. (2014). Effects of inclusion kaolin, bentonite and zeolite in dietary on chemical composition of broiler chickens meat. *Asian Journal of Animal and Veterinary Advances*. 9(1): 56-63.	5
11	Mahre M.B., Wahid H., Rosnina Y., Jesse F.F.A., Azlan C.A., Khumran A.M., Jaji A.Z. (2014). Sperm attributes and morphology on Rusa timorensis: Light and scanning electron microscopy. *Animal Reproduction Science*. 148(3-Apr): 245-250.	5
12	Abdullah F.F.J., Adamu L., Tijjani A., Mohammed K., Abba Y., Sadiq M.A., Zainal R., Bin Sabu M.J., Saharee A.A., Haron A.W. (2014). Hormonal and histopathological alterations in pituitary glands and reproductive organs of male and female mice orally inoculated with Pasteurella Multocida type B: 2 and its lipopolysaccharides. *American Journal of Animal and Veterinary Sciences*. 9(4): 200-212.	4
12	Adamu L., Adzahan N.M., Rasedee A., Ahmad B. (2014). Physical parameters and risk factors associated with the elimination of arabian and crossed Arabian endurance horses during a 120-km	4

	endurance race. *Journal of Equine Veterinary Science*. 34(4): 494-499.	
12	Samsudin A.A., Wright A.-D., Al Jassim R. (2014). The effect of fibre source on the numbers of some fibre-degrading bacteria of Arabian camel's (Camelus dromedarius) foregut origin. *Tropical Animal Health and Production*. 46(7): 1161-1166.	4
13	Nikzad S., Tan S.G., Yong Seok Yien C., Ng J., Alitheen N.B., Khan R., Rovie-Ryan J.J., Valdiani A., Khajeaian P., Kanthaswamy S. (2014). Genetic diversity and population structure of long-tailed macaque (Macaca fascicularis) populations in Peninsular Malaysia. *Journal of Medical Primatology*. 43(6): 433-444.	3
13	Syed-Hussain S.S., Howe L., Pomroy W.E., West D.M., Smith S.L., Williamson N.B. (2014). Adaptation of a commercial ELISA to determine the IgG avidity in sheep experimentally and naturally infected with Neospora caninum. *Veterinary Parasitology*. 203(1-Feb): 21-28.	3
13	Shakrin N.N.S.M., Masri S.N., Taib N.M., Nordin S.A., Jamal F., Desa M.N.M. (2014). Genotypic characterization of Malaysian human isolates of Streptococcus pneumoniae from carriage and clinical sources. *Comparative Immunology, Microbiology and Infectious Diseases*. 37(5-Jun): 347-354.	3
14	Khor K.H., Shiels I.A., Campbell F.E., Greer R.M., Rose A., Mills P.C. (2014). Evaluation of a technique to measure heart rate variability in anaesthetised cats. *Veterinary Journal*. 199(2): 229-235.	2
14	Abba Y., Simon S., Idris Gambo H., Onyebuchi Igbokwe I., Iliyasu Y. (2014). Pathological conditions associated with the male reproductive tract of the sahel bucks. *Veterinary Medicine International*. 2014: 1-5.	2
14	Oskoueian E., Abdullah N., Saad W.Z., Omar A.R., Ho Y.W. (2014). Dose-response effects of phorbol esters isolated from jatropha meal on rumen microbial activities. *Asian Journal of Animal and Veterinary Advances*. 9(1): 37-46.	2
14	Hafandi A., Begg D.P., Premaratna S.D., Sinclair A.J., Jois M., Weisinger R.S. (2014). Dietary repletion with ω3 fatty acid or with COX inhibition reverses cognitive effects in F3 ω3 fatty-acid-deficient mice. *Comparative Medicine*. 64(2): 106-109.	2
14	Ebrahimi M., Grigorian S., Shoushtari A., Abedini F., Moeini H. (2014). Sequence analysis and phylogenetic profiling of the nonstructural (NS) genes of H9N2 Influenza A viruses isolated in Iran during 1998-2007. *Archives of Razi Institute*. 69(2): 127-135.	2
15	Tohidi R., Idris I.B., Panandam J.M., Hair-Bejo M. (2014). Early immune gene expression responses to Salmonella enteritidis infection in indigenous chickens. *Journal of Applied Animal Research*. 42(2): 204-207.	1
15	Bande F., Arshad S.S., Hassan L., Zakaria Z. (2014). Molecular detection, phylogenetic analysis, and identification of transcription	1

	motifs in feline leukemia virus from naturally infected cats in Malaysia. *Veterinary Medicine International*. 2014: 1-10.	
15	Hashemi S.M., Loh T.C., Foo H.L., Zulkifli I., Hair-Bejo M. (2014). Dietary putrescine effects on performance parameters, nutrient digestibility, intestinal morphology and tissue polyamine content of broilers fed low protein diet. *Iranian Journal of Veterinary Research*. 15(4): 385-391.	1
15	Ahmed I.M., Khairani-Bejo S., Hassan L., Bahaman A.R., Omar A.R. (2014). Recombinant outer membrane proteins (rOMPs) of Brucella melitensis as a potential serological marker for diagnosis of caprine brucellosis. *Journal of Animal and Veterinary Advances*. 13(4): 231-235.	1
15	Islam J., Hakim A., Hanafi M.M., Juraimi A.S., Sarkar R.R., Hossain A.K.M.M., Chowdhury I., Ali J., Kashem A. (2014). Assessing groundwater stoichiometric composition and its suitability in Northwestern Bangladesh [Avaliação de lençol de água quanto a composição estioquiométrica e a sua conveniência do Noroeste do Bangladesh]. *Ciencia Rural*. 44(7): 1210-1218.	1

Penerbitan Pegawai UPM tahun 2014 dalam bidang Veterinar - 44 penerbitan
UPM Officers publications in 2014 in the Field of Veterinary- 44 publications

Jadual 48. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2015 Bidang Veterinar

Table 48. Top Twenty Citations of UPM Officers Publications Published in 2015 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Murugan K., Samidoss C.M., Panneerselvam C., Higuchi A., Roni M., Suresh U., Chandramohan B., Subramaniam J., Madhiyazhagan P., Dinesh D., Rajaganesh R., Alarfaj A.A., Nicoletti M., Kumar S., Wei H., Canale A., Mehlhorn H., Benelli G. (2015). Seaweed-synthesized silver nanoparticles: an eco-friendly tool in the fight against Plasmodium falciparum and its vector Anopheles stephensi?. *Parasitology Research*. 114(11): 4087-4097.	50
2	Roohani K., Tan S.W., Yeap S.K., Ideris A., Bejo M.H., Omar A.R. (2015). Characterisation of genotype VII Newcastle disease virus (NDV) isolated from NDV vaccinated chickens, and the efficacy of LaSota and recombinant genotype VII vaccines against challenge with velogenic NDV. *Journal of Veterinary Science*. 16(4): 447-457.	23
3	Kaka A., Wahid H., Rosnina Y., Yimer N., Khumran A.M., Sarsaifi K., Behan A.A., Kaka U., Ebrahimi M. (2015). α-Linolenic acid supplementation in BioXcell ® extender can improve the quality of post-cooling and frozen-thawed bovine sperm. *Animal Reproduction Science*. 153: 1-7.	21
4	Khumran A.M., Yimer N., Rosnina Y., Ariff M.O., Wahid H., Kaka A., Ebrahimi M., Sarsaifi K. (2015). Butylated hydroxytoluene can reduce oxidative stress and improve quality of frozen-thawed bull semen processed in lecithin and egg yolk based extenders. *Animal Reproduction Science*. 163: 128-134.	14
5	Aisyhah M.A.S., Amal M.N.A., Zamri-Saad M., Siti-Zahrah A., Shaqinah N.N. (2015). Streptococcus agalactiae isolates from cultured fishes in Malaysia manifesting low resistance pattern towards selected antibiotics. *Journal of Fish Diseases*. 38(12): 1093-1098.	11
5	Che' Amat A., González-Barrio D., Ortiz J.A., Díez-Delgado I., Boadella M., Barasona J.A., Bezos J., Romero B., Armenteros J.A., Lyashchenko K.P., Venteo A., Rueda P., Gortázar C. (2015). Testing Eurasian wild boar piglets for serum antibodies against Mycobacterium bovis. *Preventive Veterinary Medicine*. 121(1-Feb): 93-98.	11
6	Sarsaifi K., Vejayan J., Wahid Haron A., Yusoff R., Hani H., Rasoli M., Ariff Omar M., Mazni Othman A. (2015). Protein profile and	10

	functionality of spermatozoa from two semen collection methods in Bali bulls. *Livestock Science*. 172: 96-105.	
7	Yasmin A.R., Yeap S.K., Tan S.W., Hair-Bejo M., Fakurazi S., Kaiser P., Omar A.R. (2015). In vitro characterization of chicken bone marrow-derived dendritic cells following infection with very virulent infectious bursal disease virus. *Avian Pathology*. 44(6): 452-462.	9
7	Rasoli M., Yeap S.K., Tan S.W., Roohani K., Kristeen-Teo Y.W., Alitheen N.B., Rahaman Y.A., Aini I., Bejo M.H., Kaiser P., Omar A.R. (2015). Differential modulation of immune response and cytokine profiles in the bursae and spleen of chickens infected with very virulent infectious bursal disease virus. *BMC Veterinary Research*. 11(1): 1-14.	9
7	Khor K.H., Campbell F.E., Owen H., Shiels I.A., Mills P.C. (2015). Myocardial collagen deposition and inflammatory cell infiltration in cats with pre-clinical hypertrophic cardiomyopathy. *Veterinary Journal*. 203(2): 161-168.	9
7	Jawad H.S.A., Idris L.H.B., Naji S.A., Bakar M.B., Kassim A.B. (2015). Partial ablation of uropygial gland effect on production performance of Akar Putra chicken. *International Journal of Poultry Science*. 14(4): 213-221.	9
8	Kuiek A.M., Ooi P.T., Yong C.K., Ng C.F. (2015). Comparison of serum and oral fluid antibody responses after vaccination with a modified live (MLV) porcine reproductive and respiratory syndrome virus (PPRSV) vaccine in PRRS endemic farms. *Tropical Animal Health and Production*. 47(7): 1337-1342.	8
8	Syed-Hussain S.S., Howe L., Pomroy W.E., West D.M., Hardcastle M., Williamson N.B. (2015). Vertical transmission in experimentally infected sheep despite previous inoculation with Neospora caninum NcNZ1 isolate. *Veterinary Parasitology*. 208(3-Apr): 150-158.	8
8	Olaniyi A.O., Ajiboye A.J., Abdullah A.M., Ramli M.F., Sood A.M. (2015). Agricultural land use suitability assessment in Malaysia. *Bulgarian Journal of Agricultural Science*. 21(3): 560-572.	8
8	Bamaiyi P.H., Hassan L., Khairani-Bejo S., ZainalAbidin M., Ramlan M., Adzhar A., Abdullah N., Hamidah N.H.M., Norsuhanna M.M., Hashim S.N. (2015). The prevalence and distribution of Brucella melitensis in goats in Malaysia from 2000 to 2009. *Preventive Veterinary Medicine*. 119(3-Apr): 232-236.	8
9	Ahmed I.M., Khairani-Bejo S., Hassan L., Bahaman A.R., Omar A.R. (2015). Serological diagnostic potential of recombinant outer membrane proteins (rOMPs) from Brucella melitensis in mouse model using indirect enzyme-linked immunosorbent assay. *BMC Veterinary Research*. 11(1): 1-10.	7
9	Annas S., Abubakar M.S., Zamri-Saad M., Jesse F.F.A., Zunita Z. (2015). Pathological changes in the respiratory, gastrointestinal and urinary tracts of buffalo calves following experimental hemorrhagic	7

	septicemia. *Pakistan Veterinary Journal*. 35(4): 430-435.	
10	Jesse F.F.A., Jazid N.H.B.A., Mohammed K., Tijjani A., Chung E.L.T., Abba Y., Sadiq M.A., Saharee A.A. (2015). Hemotropic Mycoplasma ovis infection in goats with concurrent gastrointestinal parasitism in Malaysia. *Journal of Advanced Veterinary and Animal Research*. 2(4): 464-468.	6
10	Lokman I.H., Jawad S.A.H., Zuki A.B.Z., Kassim A.B. (2015). Effect of dry probiotic supplemented fermented feed on production performance of Akar Putra chicken. *International Journal of Poultry Science*. 14(7): 420-426.	6
10	Marza A.D., Abdullah F.F.J., Ahmed I.M., Chung E.L.T., Ibrahim H.H., Zamri-Saad M., Omar A.R., Bakar M.Z.A., Saharee A.A., Haron A.W., Lila M.A.M. (2015). Involvement of nervous system in cattle and buffaloes due to Pasteurella multocida B:2 infection: A review of clinicopathological and pathophysiological changes. *Journal of Advanced Veterinary and Animal Research*. 2(3): 252-262.	6
10	Jaganathan S., Ooi P.T., Phang L.Y., Allaudin Z.N.B., Yip L.S., Choo P.Y., Lim B.K., Lemiere S., Audonnet J.-C. (2015). Observation of risk factors, clinical manifestations and genetic characterization of recent Newcastle Disease Virus outbreak in West Malaysia. *BMC Veterinary Research*. 11(1): 1-9.	6
10	Chung E.L.T., Abdullah F.F.J., Abba Y., Marza A.D., Ibrahim H.H., Zamri-Saad M., Haron A.W., Saharee A.A., Lila M.A.M. (2015). Host cell and antibody response towards pasteurella multocida B2 infection-A general review. *American Journal of Animal and Veterinary Sciences*. 10(3): 156-161.	6
10	Hong S., Sowndhararajan K., Joo T., Lim C., Cho H., Kim S., Kim G.-Y., Jhoo J.-W. (2015). Ethanol and supercritical fluid extracts of hemp seed (Cannabis sativa L.) increase gene expression of antioxidant enzymes in HepG2 cells. *Asian Pacific Journal of Reproduction*. 4(2): 147-152.	6
10	Chung E.L.T., Abdullah F.F.J., Adamu L., Marza A.D., Ibrahim H.H., Zamri-Saad M., Haron A.W., Saharee A.A., Lila M.A.M., Omar A.R., Bakar M.Z.A., Norsidin M.J. (2015). Clinico-pathology, hematology, and biochemistry responses toward pasteurella multocida Type B: 2 via oral and subcutaneous route of infections. *Veterinary World*. 8(6): 783-792.	6
10	Sarsaifi K., Haron A.W., Vejayan J., Yusoff R., Hani H., Omar M.A., Hong L.W., Yimer N., Ying Ju T., Othman A.-M. (2015). Two-dimensional polyacrylamide gel electrophoresis of Bali bull (Bos javanicus) seminal plasma proteins and their relationship with semen quality. *Theriogenology*. 84(6): 956-968.	6
11	Law L.F., Zulkifli I., Soleimani A.F., Hossain M.A., Liang J.B. (2015). Nutrient digestibility of broiler chickens fed on a low-protein diet supplemented with mono-component proteases	5

	[Nährstoffverdaulichkeit einer Broiler-Futterration mit geringem proteingehalt und einer zulage an Mono-Komponenten proteasen]. *European Poultry Science*. 79(): 1-8.	
11	Mauchle U., Selvarajah G.T., Mol J.A., Kirpensteijn J., Verheije M.H. (2015). Identification of anti-proliferative kinase inhibitors as potential therapeutic agents to treat canine osteosarcoma. *Veterinary Journal*. 205(2): 281-287.	5
11	Balakrishnan K.N., Abdullah A.A., Abba Y., Bala J.A., Abdullah F.F.J., Kamal F.M., Nazariah Z.A., Ain I., Mustapha N.M., Lila M.A.M. (2015). Closing the gaps in rat cytomegalovirus ALL-03 (Malaysian strain) genomic scaffold. *American Journal of Animal and Veterinary Sciences*. 10(3): 133-140.	5
11	Olubodun J., Zulkifli I., Hair-Bejo M., Kasim A., Soleimani A.F. (2015). Physiological response of glutamine and glutamic acid supplemented broiler chickens to heat stress [Physiologische reaktion von broilern auf hitzestress bei einer zulage von glutamin und glutaminsäure zum futter]. *European Poultry Science*. 79: 1-12.	5
11	Abba Y., Igbokwe I.O. (2015). Testicular and Related Size Evaluations in Nigerian Sahel Goats with Optimal Cauda Epididymal Sperm Reserve. *Veterinary Medicine International*. 2015(): 1-5.	5
11	Afzali S.F., Mohd Daud H.J., Sharifpour I., Afsharnasab M., Shankar S. (2015). Experimental infection of Aphanomyces invadans and susceptibility in seven species of tropical fish. *Veterinary World*. 8(9): 1038-1044.	5
11	Lau S.F., Hazewinkel H.A.W., Voorhout G. (2015). Radiographic and computed tomographic assessment of the development of the antebrachia and elbow joints in Labrador Retrievers with and without medial coronoid disease. *Veterinary and Comparative Orthopaedics and Traumatology*. 28(3): 186-192.	5
12	Abba Y., Abdullah F.F.J., Chung E.L.T., Sadiq M.A., Mohammed K., Osman A.Y., Rahmat N.R., Razak I.A., Lila M.A.M., Haron A.W., Saharee A.A. (2015). Biochemical and pathological findings of pregnancy toxemia in Saanen doe: A case report. *Journal of Advanced Veterinary and Animal Research*. 2(2): 236-239.	4
12	Mahmood Z.K.H., Jesse F.F., Saharee A.A., Jasni S., Yusoff R., Wahid H. (2015). Clinio-pathological changes in goats challenged with corynebacterium peudotuberculosis and its exotoxin (PLD). *American Journal of Animal and Veterinary Sciences*. 10(3): 112-132.	4
12	Latif N.A.A., Abdullah F.F.J., Othman A.M., Rina A., Chung E.L.T., Zamri-Saad M., Saharee A.A., Haron A.W., Lila M.A.M. (2015). Isolation and detection of Corynebacterium pseudotuberculosis in the reproductive organs and associated lymph nodes of non-pregnant does experimentally inoculated through intradermal route in chronic form. *Veterinary World*. 8(7): 924-927.	4
12	Low C.-F., Nor Shamsudin M., Abdullah M., Chee H.-Y., Aliyu-Paiko	4

	M. (2015). Experimental infection of brown-marbled grouper, Epinephelus fuscoguttatus (Forskal), with Vibrio parahaemolyticus identifies parvalbumin beta-2 subunit I, alpha-2-macroglobulin, nattectin and immunoglobulin light chain, differentially expressed in resist. *Journal of Fish Diseases*. 38(1): 17-25.	
12	Mahmood Z.K.H., Jesse F.F., Saharee A.A., Jasni S., Yusoff R., Wahid H. (2015). Assessment of blood changes post-challenge with Corynebacterium pseudotuberculosis and its exotoxin (phospholipase D): A comprehensive study in goat. *Veterinary World*. 8(9): 1105-1117.	4
13	Syed-Hussain S.S., Howe L., Pomroy W.E., West D.M., Hardcastle M., Williamson N.B. (2015). Study on the use of toltrazuril to eliminate Neospora caninum in congenitally infected lambs born from experimentally infected ewes. *Veterinary Parasitology*. 210(3-Apr): 141-144.	3
13	Low C.-F., Mariana N.S., Maha A., Chee H.-Y., Fatimah M.Y. (2015). Non-immune-related genes and signalling pathways in spleen of Vibrio parahaemolyticus-infected Epinephelus fuscoguttatus (Forskal). *Journal of Fish Diseases*. 38(8): 761-764.	3
13	Dyary H.O., Arifah A.K., Sharma R.S.K., Rasedee A., Mohd Aspollah M.S., Zakaria Z.A., Zuraini A., Somchit M.N. (2015). In vivo antitrypanosomal activity of Garcinia hombroniana aqueous extract. *Research in Veterinary Science*. 100: 226-231.	3
13	Jafari S., Alizadeh A., Imani A., Meng G.Y., Rajion M.A., Ebrahimi M. (2015). In situ degradation of almond (Prunus dulcis L.) hulls, a potential feed material for ruminants. *Turkish Journal of Veterinary and Animal Sciences*. 39(6): 676-681.	3
13	Jawad H.S., Idris L.H.B., Bakar M.Z.B., Kassim A.B. (2015). Anatomical changes of akar putra chicken digestive system after partial ablation of uropygial gland. *American Journal of Animal and Veterinary Sciences*. 10(4): 217-229.	3
14	Ali O.S., Adamu L., Abdullah F.F.J., Ilyasu Y., Abba Y., Hamzah H.B., Mohd-Azmi M.L., Haron A.W.B., Saad M.Z.B. (2015). Alterations in interleukin-1β and interleukin-6 in mice inoculated through the oral routes using graded doses of p. multocida type b: 2 and its lipopolysaccharide. *American Journal of Animal and Veterinary Sciences*. 10(1): 1-8.	2
14	Mohd Nor N., Steeneveld W., Derkman T.H.J., Verbruggen M.D., Evers A.G., De Haan M.H.A., Hogeveen H. (2015). The total cost of rearing a heifer on Dutch dairy farms: Calculated versus perceived cost. *Irish Veterinary Journal*. 68(1): 1-7.	2
14	Abdullah A.A., Balakrishnan K.N., Abba Y., Abdullah F.F.J., Nazariah Z.A., Abdullah R., Mustapha N.M., Mohd-Lila M.-A. (2015). RCMV ALL-03 model and study of CMV pathogenesis in congenital infection. *American Journal of Animal and Veterinary Sciences*. 10(3):	2

	170-186.	
14	Aung W.W., Saleha A.A., Zunita Z., Murugaiyah M., Aliyu A.B., Goni D.M., Mohamed A.M. (2015). Occurrence of Campylobacter in dairy and beef cattle and their farm environment in Malaysia. *Pakistan Veterinary Journal*. 35(4): 470-473.	2
14	Tunio A., Jalila A., Goh Y.M., Shameha-Intan, Shanthi G. (2015). Histologic Evaluation of Critical Size Defect Healing with Natural and Synthetic Bone Grafts in the Pigeon (Columba livia) Ulna. *Journal of Avian Medicine and Surgery*. 29(2): 106-113.	2
14	Sanaei R., Abu J., Nazari M., Zuki M.A.B., Allaudin Z.N. (2015). Evaluation of Osteogenic Potentials of Avian Demineralized Bone Matrix in the Healing of Osseous Defects in Pigeons. *Veterinary Surgery*. 44(5): 603-612.	2
14	Konto M., Fufa G.I., Zakaria A., Tukur S.M., Watanabe M., Ola-Fadunsin S.D., Khan M.S., Shettima Y.M., Babjee S.M.A. (2015). Tick fauna of Malaysian red jungle fowl (Gallus gallus) in Bangi, Malaysia. *Veterinary World*. 8(10): 1167-1171.	2
14	Abdullah F.F.J., Adamu L., Tijjani A., Mohammed K., Abba Y., Sadiq M.A., Zainal R., Bin Sabu M.J., Saharee A.A., Haron A.W. (2015). Hormonal and histopathological alterations in pituitary glands and reproductive organs of male and female mice orally inoculated with Pasteurella multocida type B: 2 and its lipopolysaccharides. *American Journal of Animal and Veterinary Sciences*. 10(1): 23-35.	2
14	Kareem K.Y., Loh T.C., Foo H.L., Asmara S.A., Akit H., Abdulla N.R., Foongooi M. (2015). Carcass, meat and bone quality of broiler chickens fed with postbiotic and prebiotic combinations. *International Journal of Probiotics and Prebiotics*. 10(1): 23-30.	2
15	Abdullah F.F.J., Chung E.L.T., Sadiq M.A., Adamu L., Haron A.W., Abba Y., Tijjani A., Mohammed K., Osman A.Y., Lila M.A.M. (2015). Lameness in cattle herd due to lime toxicity: A case report. *Journal of Advanced Veterinary and Animal Research*. 2(2): 229-231.	1
15	Marimuthu M., Abdullah F.F.J., Mohammed K., Adamu L., Tijjani A., Abba Y., Sadiq M.A., Ting L.Y., Saharee A.A., Haron A.W. (2015). Comparative treatment approach for Sarcoptes and Psoroptes mite infestation in a Boer cross. *Journal of Advanced Veterinary and Animal Research*. 2(1): 84-88.	1
15	Mun-Fun H., Ferdaos N., Hamzah S.N., Ridzuan N., Hisham N.A., Abdullah S., Ramasamy R., Cheah P.S., Thilakavathy K., Yazid M.N., Nordin N. (2015). Rat full term amniotic fluid harbors highly potent stem cells. *Research in Veterinary Science*. 102: 89-99.	1
15	Tan T.K., Van Lun Low, Lee S.C., Panchadcharam C., Tay S.T., Ngui R., Bathmanaban P., Kho K.L., Koh F.X., Sharma R.S.K., Jaafar T., Nizam Q.N.H., Lim Y.A.L. (2015). Detection of schistosoma spindale ova and associated risk factors among Malaysian cattle through coprological survey. *Japanese Journal of Veterinary Research*. 63(2):	1

	63-71.	
15	Hasan M.M., Yusop M.R., Ismail M.R., Mahmood M., Rahim H.A., Latif M.A. (2015). Performance of yield and yield contributing characteristics of BC2F3 population with addition of blast resistant gene [Desempenho produtivo e características de produção de populações de BC2F3 com gene de resistência a brunose]. *Ciencia e Agrotecnologia*. 39(5): 463-476.	1
15	Tan W.-Q., Yee P.C., Chin S.C., Chin Y.B., Clemente Michael Wong Vui L., Abdullah N., Radu S., Wan H.Y. (2015). Cloning of a novel phytase from an anaerobic rumen bacterium, Mitsuokella jalaludinii, and its expression in Escherichia coli. *Journal of Integrative Agriculture*. 14(9): 1816-1826.	1

Penerbitan Pegawai UPM tahun 2015 dalam bidang Veterinar - 63 penerbitan
UPM Officers publications in 2015 in the Field of Veterinary- 63 publications

Jadual 49. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2016 Bidang Veterinar

Table 49. Top Twenty Citations of UPM Officers Publications Published in 2016 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Assi M.A., Hezmee M.N.M., Haron A.W., Sabri M.Y.M., Rajion M.A. (2016). The detrimental effects of lead on human and animal health. *Veterinary World*. 9(6): 660-671.	53
2	Murugan K., Dinesh D., Kavithaa K., Paulpandi M., Ponraj T., Alsalhi M.S., Devanesan S., Subramaniam J., Rajaganesh R., Wei H., Kumar S., Nicoletti M., Benelli G. (2016). Hydrothermal synthesis of titanium dioxide nanoparticles: mosquitocidal potential and anticancer activity on human breast cancer cells (MCF-7). *Parasitology Research*. 115(3): 1085-1096.	51
3	Panneerselvam C., Murugan K., Roni M., Aziz A.T., Suresh U., Rajaganesh R., Madhiyazhagan P., Subramaniam J., Dinesh D., Nicoletti M., Higuchi A., Alarfaj A.A., Munusamy M.A., Kumar S., Desneux N., Benelli G. (2016). Fern-synthesized nanoparticles in the fight against malaria: LC/MS analysis of Pteridium aquilinum leaf extract and biosynthesis of silver nanoparticles with high mosquitocidal and antiplasmodial activity. *Parasitology Research*. 115(3): 997-1013.	46
4	Kareem K.Y., Loh T.C., Foo H.L., Akit H., Samsudin A.A. (2016). Effects of dietary postbiotic and inulin on growth performance, IGF1 and GHR mRNA expression, faecal microbiota and volatile fatty acids in broilers. *BMC Veterinary Research*. 12(1): 1-10.	18
5	Mohammed K., Abba Y., Ramli N.S.B., Marimuthu M., Omar M.A., Abdullah F.F.J., Sadiq M.A., Tijjani A., Chung E.L.T., Lila M.A.M. (2016). The use of FAMACHA in estimation of gastrointestinal nematodes and total worm burden in Damara and Barbados Blackbelly cross sheep. *Tropical Animal Health and Production*. 48(5): 1013-1020.	9
5	Abuelfatah K., Zuki A.B.Z., Goh Y.M., Sazili A.Q. (2016). Effects of enriching goat meat with n - 3 polyunsaturated fatty acids on meat quality and stability. *Small Ruminant Research*. 136: 36-42.	9
6	Faiz N.M., Cortes A.L., Guy J.S., Fletcher O.J., West M., Montiel E., Gimeno I.M. (2016). Early infection with Marek's disease virus can jeopardize protection conferred by laryngotracheitis vaccines: a method to study MDV-induced immunosuppression. *Avian Pathology*. 45(6): 606-615.	8

6	Ismail M.S., Siti-Zahrah A., Syafiq M.R.M., Amal M.N.A., Firdaus-Nawi M., Zamri-Saad M. (2016). Feed-based vaccination regime against streptococcosis in red tilapia, Oreochromis niloticus x Oreochromis mossambicus. *BMC Veterinary Research*. 12(1): 1-6.	8
6	Jeber Z.K.H., MohdJin Z., Jesse F.F., Saharee A.A., Sabri J., Yusoff R., Wahid H. (2016). Influence of Corynebacterium pseudotuberculosis infection on level of acute phase proteins in goats. *BMC Veterinary Research*. 12(1): 1-5.	8
6	Zamri-Saad M., Annas S. (2016). Vaccination against hemorrhagic septicemia of bovines: A review. *Pakistan Veterinary Journal*. 36(1): 1-5.	8
7	Abuelfatah K., Zuki A.B., Goh Y.M., Sazili A.Q., Abubakr A. (2016). Effects of feeding whole linseed on ruminal fatty acid composition and microbial population in goats. *Animal Nutrition*. 2(4): 323-328.	6
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8	Yasmin A.R., Yeap S.K., Hair-Bejo M., Omar A.R. (2016). Characterization of Chicken Splenic-Derived Dendritic Cells Following Vaccine and Very Virulent Strains of Infectious Bursal Disease Virus Infection. *Avian Diseases*. 60(4): 739-751.	5
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	Low C.-F., Mariana N.S., Maha A., Chee H.-Y., Fatimah M.Y. (2016). Identification of immune response-related genes and signalling pathways in spleen of Vibrio parahaemolyticus-infected Epinephelus fuscoguttatus (Forskal) by next-generation sequencing. *Journal of Fish Diseases*. 39(3): 389-394.	5
	Bitrus A.A., Zakaria Z., Bejo S.K., Othman S. (2016). Persistence of antibacterial resistance and virulence gene profile of methicillin resistant staphylococcus aureus (MRSA) isolated from humans and animals. *Pakistan Veterinary Journal*. 36(1): 77-82.	5
9	Che-Amat A., Risalde M., González-Barrio D., Ortíz J.A., Gortázar C. (2016). Effects of repeated comparative intradermal tuberculin testing on test results: A longitudinal study in TB-free red deer. *BMC Veterinary Research*. 12(1): 1-9.	4
9	Mahmood Z.K., Jin Z.-A.M., Jesse F.F., Saharee A.A., Sabri J., Yusoff R., Haron A.W. (2016). Relationship between the Corynebacterium	4

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9	Nasai N.B., Abba Y., Abdullah F.F.J., Marimuthu M., Tijjani A., Sadiq M.A., Mohammed K., Chung E.L.T., Omar M.A.B. (2016). In vitro larvicidal effects of ethanolic extract of Curcuma longa Linn. on Haemonchus larval stage. *Veterinary World*. 9(4): 417-420.	4
9	Jawad H.S.A., Lokman I.H., Naji S.A., Zuki A.B.Z., Kassim A.B. (2016). Effects of dietary supplementation of wet fermented feed with probiotic on the production performance of Akar Putra chicken. *Asian Journal of Poultry Science*. 10(2): 72-77.	4
10	Kaka U., Saifullah B., Abubakar A.A., Goh Y.M., Fakurazi S., Kaka A., Behan A.A., Ebrahimi M., Chen H.C. (2016). Serum concentration of ketamine and antinociceptive effects of ketamine and ketamine-lidocaine infusions in conscious dogs. *BMC Veterinary Research*. 12(1): 1-10.	3
10	Hambali I.U., Adamu N.B., Ahmed M.I., Bokko P., Mbaya A.W., Tijjani A.O., Biu A.A., Abdullah Jesse F.F., Ambali A.-G. (2016). Sero-prevalence of Schistosoma species in cattle in Maiduguri Metropolis and Jere Local Government Areas of Borno State, Nigeria. *Journal of Advanced Veterinary and Animal Research*. 3(1): 56-61.	3
10	Goni D.M., Abdulaziz S., Dhaliwa G.K., Zakaria Z., Muhammad I.J., Mohamed M.A., Bello A.A., Bitrus A.A. (2016). Occurrence of Arcobacter in dogs and cats in Selangor, Malaysia, and associated risk factors. *Turkish Journal of Veterinary and Animal Sciences*. 40(6): 769-775.	3
10	Firouzamandi M., Moeini H., Hosseini D., Bejo M.H., Omar A.R., Mehrbod P., Ideris A. (2016). Improved immunogenicity of Newcastle disease virus inactivated vaccine following DNA vaccination using Newcastle disease virus hemagglutinin-neuraminidase and fusion protein genes. *Journal of Veterinary Science*. 17(1): 21-26.	3
10	Jawad H.S.A., Lokman I.H., Naji S.A., Zuki A.B.Z., Kassim A.B. (2016). Effect of soluble probiotic on production performance of akar putra chicken. *International Journal of Poultry Science*. 15(4): 134-138.	3
11	Morishita K., Hiramoto A., Osuga T., Lim S.Y., Khoirun N., Sasaki N., Nakamura K., Ohta H., Yamasaki M., Takiguchi M. (2016). Contrast-enhanced ultrasonography of the hepatic vein in normal dogs. *Journal of Veterinary Medical Science*. 78(12): 1753-1758.	2
11	Che'Amat A., Armenteros J.A., González-Barrio D., Lima J.F., Díez-Delgado I., Barasona J.A., Romero B., Lyashchenko K.P., Ortiz J.A., Gortázar C. (2016). Is targeted removal a suitable means for tuberculosis control in wild boar?. *Preventive Veterinary Medicine*. 135: 132-135.	2

11	Jajere S.M., Atsanda N.N., Bitrus A.A., Hamisu T.M., Ayo A.O. (2016). Seroprevalence of brucellosis among cattle slaughtered in three municipal abattoirs of Gombe state, Northeastern Nigeria. *Veterinary World*. 9(10): 1082-1086.	2
11	Akit H., Collins C., Fahri F., Hung A., D'Souza D., Leury B., Dunshea F. (2016). Dietary lecithin decreases skeletal muscle COL1A1 and COL3A1 gene expression in finisher gilts. *Animals*. 6(6): 1-8.	2
11	Yakubu Y., Ong B.L., Zakaria Z., Hassan L., Mutalib A.R., Ngeow Y.F., Verasahib K., Razak M.F.A.A. (2016). Evidence and potential risk factors of tuberculosis among captive Asian elephants and wildlife staff in Peninsular Malaysia. *Preventive Veterinary Medicine*. 125: 147-153.	2
12	Kaka U., Goh Y.M., Chean L.W., Chen H.C. (2016). Electroencephalographic changes associated with non-invasive nociceptive stimulus in minimally anaesthetised dogs. *Polish Journal of Veterinary Sciences*. 19(4): 675-683.	1
12	Jesse F.F.A., Bitrus A.A., Abba Y., Sadiq M.A., Chung E.L.T., Hambali I.U., Lila M.A.M., Haron A.W. (2016). Clinical and gross pathological findings of Johne's disease in a calf: A case report. *Journal of Advanced Veterinary and Animal Research*. 3(3): 292-296.	1
12	Jesse F.F.A., Bitrus A.A., Abba Y., Sadiq M.A., Hambali I.U., Chung E.L.T., Ping F.L.P., Haron A.W., Lila M.A.M., Saharee A.A., Norsidin M.J. (2016). A clinical case of bovine trypanosomosis in an endemic farm in Malaysia. *Journal of Advanced Veterinary and Animal Research*. 3(3): 286-291.	1
12	Abba Y., Jesse F.F.A., Sadiq M.A., Ibrahim H.H., Chung E.L.T., Bitrus A.A., Lila M.A.M., Hambali I.U. (2016). Clinical management and gross pathological findings of a severe anaplamosis in a dairy cow. *Journal of Advanced Veterinary and Animal Research*. 3(2): 195-199.	1
12	Hambali I.U., Ahmed M.I., Adamu N.B., Bokko P., Tijjani A.O., Mbaya A.W., Jesse F.F.A., Biu A.A. (2016). PCR-based detection of Schistosoma bovis in cattle in Maiduguri Metropolis and Jere Local Government Areas in Borno State, Nigeria. *Journal of Advanced Veterinary and Animal Research*. 3(2): 92-98.	1
12	Elmutaz A.A., Idrus Z., Abdoreza S.F., Loh T.C., Mohammad A.H., Ahmed A. (2016). Effect of low-protein diet, gender and age on the apparent ileal amino acid digestibility in broiler chickens raised under hot-humid tropical condition. *Indian Journal of Animal Sciences*. 86(6): 696-701.	1
12	Shakeri M., Oskoueian E., Najafi P., Ebrahimi M. (2016). Impact of glutamine in drinking water on performance and intestinal morphology of broiler chickens under high stocking density. *Istanbul Universitesi Veteriner Fakultesi Dergisi*. 42(1): 51-56.	1
12	Jesse F.F.A., Chung E.L.T., Abba Y., Sadiq M.A., Adamu L., Hambali I.U., Bitrus A.A., Affandi S.A., Abdullah A.G., Lila M.A.M., Haron	1

	A.W., Saharee A.A. (2016). Suspected bacillary haemoglobinuria in a calf: A case report. *Advances in Animal and Veterinary Sciences*. 4(9): 458-461.	
12	Aslani F., Juraimi A.S., Ahmad-Hamdani M.S., Hashemi F.S.G., Alam M.A., Hakim M.A., Uddin M.K. (2016). Effects of Tinospora tuberculata leaf methanol extract on seedling growth of rice and associated weed species in hydroponic culture. *Journal of Integrative Agriculture*. 15(7): 1521-1531.	1
12	Ahmad B., Amin I., Akram T., Ur-Rehman M., Ahmad S., Rasool S., Arif A., Farooq A., Muzamil S., Hussain I., Ur-Rahman Mir M. (2016). Zingerone (4-(4-hydroxy-3-methoxyphenyl)-2-butanone) protects against acetaminophen induced hepatotoxicity in wistar rats via alleviation of oxidative stress and inflammation. *Asian Journal of Animal and Veterinary Advances*. 11(12): 832-839.	1

Penerbitan Pegawai UPM tahun 2016 dalam bidang Veterinar - 51 penerbitan
UPM Officers publications in 2016 in the Field of Veterinary - 51 publications

Jadual 50. Dua Puluh Petikan Teratas bagi Penerbitan UPM Tahun 2017 Bidang Veterinar

Table 50. Top Twenty Citations of UPM Publications Published in 2017 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Murugan K., Wei J., Alsalhi M.S., Nicoletti M., Paulpandi M., Samidoss C.M., Dinesh D., Chandramohan B., Paneerselvam C., Subramaniam J., Vadivalagan C., Wei H., Amuthavalli P., Jaganathan A., Devanesan S., Higuchi A., Kumar S., Aziz A.T., Nataraj D., Vaseeharan B., Canale A., Benelli G. (2017). Magnetic nanoparticles are highly toxic to chloroquine-resistant Plasmodium falciparum, dengue virus (DEN-2), and their mosquito vectors. *Parasitology Research*. 116(2): 495-502.	15
2	Low C.-F., Syarul Nataqain B., Chee H.-Y., Rozaini M.Z.H., Najiah M. (2017). Betanodavirus: Dissection of the viral life cycle. *Journal of Fish Diseases*. 40(11): 1489-1496.	11
3	Abdulla N.R., Zamri A.N.M., Sabow A.B., Kareem K.Y., Nurhazirah S., Ling F.H., Sazili A.Q., Loh T.C. (2017). Physico-chemical properties of breast muscle in broiler chickens fed probiotics, antibiotics or antibiotic-probiotic mix. *Journal of Applied Animal Research*. 45(1): 64-70.	9
3	Dalia A.M., Loh T.C., Sazili A.Q., Jahromi M.F., Samsudin A.A. (2017). The effect of dietary bacterial organic selenium on growth performance, antioxidant capacity, and Selenoproteins gene expression in broiler chickens. *BMC Veterinary Research*. 13(1): 1-11.	9
4	Abdulkhaleq L.A., Assi M.A., Noor M.H.M., Abdullah R., Saad M.Z., Taufiq-Yap Y.H. (2017). Therapeutic uses of epicatechin in diabetes and cancer. *Veterinary World*. 10(8): 869-872.	7
4	Kristeen-Teo Y.W., Yeap S.K., Tan S.W., Omar A.R., Ideris A., Tan S.G., Alitheen N.B. (2017). The effects of different velogenic NDV infections on the chicken bursa of Fabricius. *BMC Veterinary Research*. 13(1): 1-12.	7
5	Sinclair M., Zito S., Idrus Z., Yan W., Van Nhiem D., Lampang P.N., Phillips C.J.C. (2017). Attitudes of stakeholders to animal welfare during slaughter and transport in SE and E Asia. *Animal Welfare*. 26(4): 417-425.	6
6	Megahed A.A., Hiew M.W.H., Townsend J.R., Constable P.D. (2017). Characterization of the analytic performance of an electrochemical point-of-care meter for measuring β-hydroxybutyrate	5

	concentration in blood and plasma from periparturient dairy cattle. *Veterinary Clinical Pathology*. 46(2): 314-325.	
7	Yusuf A.L., Adeyemi K.D., Samsudin A.A., Goh Y.M., Alimon A.R., Sazili A.Q. (2017). Effects of dietary supplementation of leaves and whole plant of Andrographis paniculata on rumen fermentation, fatty acid composition and microbiota in goats. *BMC Veterinary Research*. 13(1): 1-9.	4
7	Abdulla N., Loh T.C., Akit H., Sazili A.Q., Foo H.L., Kareem K.Y., Mohamad R., Rahim R.A. (2017). Effects of dietary oil sources, calcium and phosphorus levels on growth performance, carcass characteristics and bone quality of broiler chickens. *Journal of Applied Animal Research*. 45(1): 423-429.	4
7	Salleh A.F.M., Amal M.N.A., Nasruddin N.S., Zulkifli S.Z., Yusuff F.M., Ibrahim W.N.W., Ismail A. (2017). Water pH effects on survival, reproductive performances, and ultrastructure of gonads, gills, and skins of the Javanese medaka (Oryzias javanicus). *Turkish Journal of Veterinary and Animal Sciences*. 41(4): 471-481.	4
8	Sadiq M.B., Ramanoon S.Z., Mansor R., Syed-Hussain S.S., Shaik Mossadeq W.M. (2017). Prevalence of lameness, claw lesions, and associated risk factors in dairy farms in Selangor, Malaysia. *Tropical Animal Health and Production*. 49(8): 1741-1748.	3
8	Ahmed M.A., Adeyemi K.D., Jahromi M.F., Jusoh S., Alimon A.R., Samsudin A.A. (2017). Effects of dietary Kleinhovia hospita and Leucaena leucocephala leaves on rumen fermentation and microbial population in goats fed treated rice straw. *Tropical Animal Health and Production*. 49(8): 1749-1756.	3
8	Selvarajah G.T., Bonestroo F.A.S., Timmermans Sprang E.P.M., Kirpensteijn J., Mol J.A. (2017). Reference gene validation for gene expression normalization in canine osteosarcoma: A geNorm algorithm approach. *BMC Veterinary Research*. 13(1): 1-8.	3
8	Sadiq M.B., Ramanoon S.Z., Mossadeq W.M.S., Mansor R., Syed-Hussain S.S. (2017). Association between lameness and indicators of dairy cow welfare based on locomotion scoring, body and hock condition, leg hygiene and lying behavior. *Animals*. 7(11): 1-17.	3
8	Kwoji I.D., Tambuwal F.M., Abubakar M.B., Yakubu Y., Bitrus A.A., Jauro S. (2017). Occurrence of methicillin resistant Staphylococcus aureus in chickens and farm personnel in Sokoto, North-western Nigeria. *Journal of Advanced Veterinary and Animal Research*. 4(3): 255-260.	3
8	Sabow A.B., Nakyinsige K., Adeyemi K.D., Sazili A.Q., Johnson C.B., Webster J., Farouk M.M. (2017). High frequency pre-slaughter electrical stunning in ruminants and poultry for halal meat production: A review. *Livestock Science*. 202: 124-134.	3
8	Faiz N.M., Cortes A.L., Guy J.S., Fletcher O.J., Cimino T., Gimeno I.M. (2017). Evaluation of factors influencing the development of	3

	late Marek's disease virus-induced immunosuppression: virus pathotype and host sex. *Avian Pathology*. 46(4): 376-385.	
8	Tarig A.A., Wahid H., Rosnina Y., Yimer N., Goh Y.M., Baiee F.H., Khumran A.M., Salman H., Ebrahimi M. (2017). Effect of different concentrations of egg yolk and virgin coconut oil in Tris-based extenders on chilled and frozen-thawed bull semen. *Animal Reproduction Science*. 182: 21-27.	3
8	Kamal N.M., Zamri-Saad M., Masarudin M.J., Othman S. (2017). Interaction between Pasteurella multocida B:2 and its derivatives with bovine aortic endothelial cell (BAEC). *BMC Veterinary Research*. 13(1): 1-8.	3
8	Nejad J.G., Oskouian E., Kim B.-W., Lee B.-H., Sung K.-I. (2017). Microbial nitrogen production, nitrogen balance and excretion of urinary purine derivatives in Corriedale ewes under water deprivation. *Annals of Animal Science*. 17(2): 517-527.	3
8	Khairuddin N.H., Sullivan M., Pollock P.J. (2017). Angiographic anatomy of the extracranial and intracranial portions of the internal carotid arteries in donkeys. *Irish Veterinary Journal*. 70(1): 1-7.	3
8	Safi N., Haghani A., Ng S.W., Selvarajah G.T., Mustaffa-Kamal F., Omar A.R. (2017). Expression profiles of immune mediators in feline Coronavirus-infected cells and clinical samples of feline Coronavirus-positive cats. *BMC Veterinary Research*. 13(1): 1-13.	3
8	Jesse F.F.A., Ibrahim H.H., Abba Y., Chung E.L.T., Marza A.D., Mazlan M., Zamri-Saad M., Omar A.R., Zakaria M.Z.A.B., Saharee A.A., Haron A.W., Lila M.A.M. (2017). Reproductive hormonal variations and adenohypophyseal lesions in pre-pubertal buffalo heifers inoculated with Pasteurella multocida type B: 2 and its immunogens. *BMC Veterinary Research*. 13(1): 1-10.	3
8	Han H.S., Sharma R., Jeffery J., Noli C. (2017). Chrysomya bezziana (Diptera: Calliphoridae) infestation: case report of three dogs in Malaysia treated with spinosad/milbemycin. *Veterinary Dermatology*. 28(2): 239-0.	3
8	Tarig A.A., Wahid H., Rosnina Y., Yimer N., Goh Y.M., Baiee F.H., Khumran A.M., Salman H., Assi M.A., Ebrahimi M. (2017). Effect of different concentrations of soybean lecithin and virgin coconut oil in Tris-based extender on the quality of chilled and frozen-thawed bull semen. *Veterinary World*. 10(6): 672-678.	3
8	Hanafiah H.A., Zulkifli I., Soleimani A.F., Awad E.A. (2017). Apparent metabolisable energy and ileal crude protein digestibility of various treated palm kernel cake based diets for heat-stressed broiler chickens [Scheinbare umsetzbare Energie und präcecale Rohproteinverdaulichkeit von verschieden behandeltem Palmke. *European Poultry Science*. 81: 1-13.	3
8	Odhah M.N., Abdullah F.F.J., Haron A.W., Lila M.A.M., Zamri-Saad M., Khuder Z., Hambali I.U., Umar M., Saleh W.M. (2017).	3

	Hemogram responses in goats toward challenged with Corynebacterium pseudotuberculosis and its immunogen mycolic acids. *Veterinary World*. 10(6): 655-661.	
9	Intan-Shameha A.R., Divers T.J., Morrow J.K., Graves A., Olsen E., Johnson A.L., Mohammed H.O. (2017). Phosphorylated neurofilament H (pNF-H) as a potential diagnostic marker for neurological disorders in horses. *Research in Veterinary Science*. 114: 401-405.	2
9	Fitri W.-N., Wahid H., Rosnina Y., Jesse F.F.A., Aimi-Sarah Z.A., Mohd-Azmi M.L., Azlan C.A., Azrolharith M.R., Peter I.D., Baiee F.H.A. (2017). Semen characteristics, extension, and cryopreservation of Rusa deer (Rusa timorensis). *Veterinary World*. 10(7): 779-785.	2
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9	Al-Tawaha A.R., Turk M.A., Abu-Zaitoon Y.M., Aladaileh S.H., Al-Rawashdeh I.M., Alnaimat S., Al-Tawaha A.R.M., Alu'Datt M.H., Wedyan M. (2017). Plants adaptation to drought environment. *Bulgarian Journal of Agricultural Science*. 23(3): 381-388.	2
9	Morishita K., Hiramoto A., Michishita A., Takagi S., Osuga T., Lim S.Y., Nakamura K., Sasaki N., Ohta H., Takiguchi M. (2017). Washout Ratio in the Hepatic Vein Measured by Contrast-Enhanced Ultrasonography to Distinguish Between Inflammatory and Noninflammatory Hepatic Disorders in Dogs. *Journal of Veterinary Internal Medicine*. 31(3): 770-777.	2
9	Adamu L., Rasedee A.F.N.B., Mohd Adzahan N., Rasedee A., Ahmad B. (2017). The Use of a Metabolic Disorder Index as a Predictor for Metabolic Eliminations in Endurance Horses. *Journal of Equine Veterinary Science*. 51: 113-121.	2
9	Jaafar W.N.F.W., Haron A.W., Hj Yusoff R., Abdullah F.F.J., Abidin S.A.S.Z., Lila M.A.M., Amat A.C., Rashid M.A., Omar M.A. (2017). Determination of breeding seasonality in rusa deer (Rusa timorensis) stags via serum testosterone profiling. *American Journal of Animal and Veterinary Sciences*. 12(1): 45-52.	2
9	Baiee F., Haron A.W., Yusoff R., Omar M., Yimer N., Jeber Z., Hammadi S., Ahmedeltayeb T., Fitri W.-N., Umar M. (2017). Kinetic motilities of cryopreserved bull spermatozoa: Owing to the effect of eurycoma longifolia Jack Aqueous extract. *American Journal of Animal and Veterinary Sciences*. 12(2): 77-84.	2
9	Abdullah F.F.J., Naji O.M., Lila M.A.M., Saad M.Z., Haron A.W., Hambali I.U., Mahmood Z.K. (2017). Pro-inflammatory cytokine (IL-1β and IL-6) response in goats challenged with corynebacterium pseudotuberculosis and its immunogen mycolic acids. *American*	2

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10	Lau S.F., Wong J.Y., Khor K.H., Roslan M.A., Abdul Rahman M.S., Bejo S.K., Radzi R., Bahaman A.R. (2017). Seroprevalence of Leptospirosis in Working Dogs. *Topics in Companion Animal Medicine*. 32(4): 121-125.	1
10	Khanh N.P., Tan S.W., Yeap S.K., Satharasinghe D.A., Hair-Bejo M., Bich T.N., Omar A.R. (2017). Molecular Characterization of QX-Like and Variant Infectious Bronchitis Virus Strains in Malaysia Based on Partial Genomic Sequences Comprising the S-3a/3b-E-M-Intergenic Region-5a/5b-N Gene Order. *Avian Diseases*. 61(4): 442-452.	1
10	Jesse F.F.A., Hambali I.U., Galli M.F.B.T., Abba Y., Bitrus A.A., Peter I.D., Lila M.A.M., Haron A.W., Muhamad A.S. (2017). Clinical management of parasitic gastroenteritis (PGE) concurrent with moderate pneumonia in a goat: A clinical veterinary case report. *Journal of Advanced Veterinary and Animal Research*. 4(3): 307-310.	1
10	Alshelmani M.I., Loh T.C., Foo H.L., Sazili A.Q., Lau W.H. (2017). Effect of solid state fermentation on nutrient content and ileal amino acids digestibility of palm kernel cake in broiler chickens. *Indian Journal of Animal Sciences*. 87(9): 1135-1140.	1
10	Tang S.G.H., Sieo C.C., Ramasamy K., Saad W.Z., Wong H.K., Ho Y.W. (2017). Performance, biochemical and haematological responses, and relative organ weights of laying hens fed diets supplemented with prebiotic, probiotic and synbiotic. *BMC Veterinary Research*. 13(1): 1-12.	1
10	Harun N.L.A., Alimon A.R., Jahromi M.F., Samsudin A.A. (2017). Effects of feeding goats with Leucaena leucocephala and Manihot esculenta leaves supplemented diets on rumen fermentation profiles, urinary purine derivatives and rumen microbial population. *Journal of Applied Animal Research*. 45(1): 409-416.	1
10	Ghani A.A.A., Shahudin M.S., Zamri-Saad M., Zuki A.B., Wahid H., Kasim A., Salisi M.S., Hassim H.A. (2017). Enhancing the growth performance of replacement female breeder goats through modification of feeding program. *Veterinary World*. 10(6): 630-635.	1
10	Salah N., Yimer N. (2017). Cytological endometritis and its agreement with ultrasound examination in postpartum beef cows. *Veterinary World*. 10(6): 605-609.	1
10	Phyoe H.M.M., Khaing A.T., Abba Y., Aung Y.H., Htun L.L., Htin N.N., Abdullah J.F.F., Lila M.A.M. (2017). Seroprevalence of Foot and Mouth Disease Virus (FMDV) and associated risk factors in unvaccinated sheep and goats in Pyawbwe and Meikhtila townships of Myanmar. *Journal of Advanced Veterinary and Animal Research*. 4(2): 161-167.	1
10	Al-Jumaili W.S., Goh Y.M., Jafari S., Rajion M.A., Jahromi M.F., Ebrahimi M. (2017). An in vitro study on the ability of tannic acid to inhibit methanogenesis and biohydrogenation of C18 PUFA in the	1

	rumen of goats. *Annals of Animal Science*. 17(2): 491-502.	
10	Aiman-Zakaria A., Yong-Meng G., Ali-Rajion M., Jafari S., Faseleh-Jahromi M., Shokriyazdan P., Ebrahimi M. (2017). The influence of plant polyphenols from oil palm (Elaeis guineensis Jacq.) leaf extract on fermentation characteristics, biohydrogenation of C18 PUFA, and microbial populations in rumen of goats: in vitro study. *Acta Agriculturae Scandinavica A: Animal Sciences*. 67(43497): 76-84.	1
10	Morishita K., Hiramoto A., Michishita A., Takagi S., Hoshino Y., Itami T., Lim S., Osuga T., Nakamura S., Ochiai K., Nakamura K., Ohta H., Yamasaki M., Takiguchi M. (2017). Assessment of contrast-enhanced ultrasonography of the hepatic vein for detection of hemodynamic changes associated with experimentally induced portal hypertension in dogs. *American Journal of Veterinary Research*. 78(4): 465-471.	1
10	King S.J., Ooi P.T., Phang L.Y., Allaudin Z.N.B., Loh W.H., Tee C.Y., How S.P., Yip L.S., Choo P.Y., Lim B.K. (2017). Phylogenetic characterization of genes encoding for viral envelope glycoprotein (ORF5) and nucleocapsid protein (ORF7) of porcine reproductive & respiratory syndrome virus found in Malaysia in 2013 and 2014. *BMC Veterinary Research*. 13(1): 1-14.	1
10	Ahmad A.A., Jayarajah P., Han G.W.Y., Yin S.J.O.W., Rasedee A. (2017). Hematology and serum biochemistry parameters for rescued common palm civets (Paradoxurus hermaphroditus) in different age groups. *Journal of Veterinary Medical Science*. 79(6): 1134-1137.	1
10	Abba Y., Bitrus A.A., Jesse F.F.A., Helmy S., Hambali I.U., Mohammed Lila M.A., Haron A.W. (2017). Evaluation of protective effects of graded doses of lipopolysaccharide extracted from pasteurella multocida Type B:2 against hemorrhagic septicemia in mice. *Advances in Animal and Veterinary Sciences*. 5(9): 352-357.	1
10	Jesse F.F.A., Abba Y., Peter I.D., Bitrus A.A., Hambali I.U., Jamaluddin N.L., Haron A.W. (2017). Clinical management of Parasitic Gastroenteritis (PGE) concurrent with mycoplasmosis and orf in sheep. *Advances in Animal and Veterinary Sciences*. 5(9): 358-361.	1
10	Goni M.D., Muhammad I.J., Goje M., Abatcha M.G., Bitrus A.A., Abbas M.A. (2017). Campylobacter in dogs and cats; Its detection and public health significance: A review. *Advances in Animal and Veterinary Sciences*. 5(6): 239-248.	1
10	Goni M.D., Muhammad I.J., Goje M., Bitrus A.A., Jajere S.M., Adam B.M., Abbas M.A. (2017). Occurrence of emerging Arcobacter in dogs and cats and its public health implications: A Review. *Advances in Animal and Veterinary Sciences*. 5(9): 362-370.	1

Penerbitan Pegawai UPM tahun 2017 dalam bidang Veterinar - 62 penerbitan
UPM Officers publications in 2017 in the Field of Veterinary - 62 publications

Jadual 51. Dua Puluh Petikan Teratas bagi Penerbitan Pegawai UPM Tahun 2018 Bidang Veterinar
Table 51. Top Twenty Citations of UPM Officers Publications Published in 2018 in the Field of Veterinary

Tahap *Rank*	Maklumat Bibliografi *Bibliographic Information*	Bilangan Petikan *Number of Citations*
1	Abdulkhaleq L.A., Assi M.A., Abdullah R., Zamri-Saad M., Taufiq-Yap Y.H., Hezmee M.N.M. (2018). The crucial roles of inflammatory mediators in inflammation: A review. *Veterinary World*. 11(5): 627-635.	7
2	Dalia A.M., Loh T.C., Sazili A.Q., Jahromi M.F., Samsudin A.A. (2018). Effects of vitamin E, inorganic selenium, bacterial organic selenium, and their combinations on immunity response in broiler chickens. *BMC Veterinary Research*. 14(1): 1-10.	4
2	Al-Tawaha A.R., Turk M.A., Al-Tawaha A.R.M., Alu'Datt M.H., Wedyan M., Al-Ramamneh E.A.-D.M., Hoang A.T. (2018). Using chitosan to improve growth of maize cultivars under salinity conditions. *Bulgarian Journal of Agricultural Science*. 24(3): 437-442.	4
3	Chung E.L.T., Khairuddin N.H., Azizan T.R.P.T., Adamu L. (2018). Sleeping patterns of horses in selected local horse stables in Malaysia. *Journal of Veterinary Behavior*. 26: 1-4.	3
3	Low G.K.-K., Ogston S.A., Yong M.-H., Gan S.-C., Chee H.-Y. (2018). Global dengue death before and after the new World Health Organization 2009 case classification: A systematic review and meta-regression analysis. *Acta Tropica*. 182: 237-245.	3
3	Kumar K., Arshad S.S., Selvarajah G.T., Abu J., Toung O.P., Abba Y., Bande F., Yasmin A.R., Sharma R., Ong B.L., Rasid A.A., Hashim N., Peli A., Heshini E.P., Shah A.K.M.K. (2018). Prevalence and risk factors of Japanese encephalitis virus (JEV) in livestock and companion animal in high-risk areas in Malaysia. *Tropical Animal Health and Production*. 50(4): 741-752.	3
3	Mohd Azlan P., Jahromi M.F., Ariff M.O., Ebrahimi M., Candyrine S.C.L., Liang J.B. (2018). Aspergillus terreus treated rice straw suppresses methane production and enhances feed digestibility in goats. *Tropical Animal Health and Production*. 50(3): 565-571.	3
3	Albishtue A.A., Yimer N., Zakaria M.A., Haron A.W., Yusoff R., Assi	3

	M.A., Almhanawi B.H. (2018). Edible bird's nest impact on rats' uterine histomorphology, expressions of genes of growth factors and proliferating cell nuclear antigen, and oxidative stress level. *Veterinary World*. 11(1): 71-79.	
4	Sparger E.E., Murphy B.G., Kamal F.M., Arzi B., Naydan D., Skouritakis C.T., Cox D.P., Skorupski K. (2018). Investigation of immune cell markers in feline oral squamous cell carcinoma. *Veterinary Immunology and Immunopathology*. 202: 52-62.	2
4	Kalyanasundram J., Hamid A., Yusoff K., Chia S.L. (2018). Newcastle disease virus strain AF2240 as an oncolytic virus: A review. *Acta Tropica*. 183: 126-133.	2
4	Odhaib K.J., Adeyemi K.D., Ahmed M.A., Jahromi M.F., Jusoh S., Samsudin A.A., Alimon A.R., Yaakub H., Sazili A.Q. (2018). Influence of Nigella sativa seeds, Rosmarinus officinalis leaves and their combination on growth performance, immune response and rumen metabolism in Dorper lambs. *Tropical Animal Health and Production*. 50(5): 1011-1023.	2
4	Madhavan P., Jamal F., Pei C.P., Othman F., Karunanidhi A., Ng K.P. (2018). Comparative Study of the Effects of Fluconazole and Voriconazole on Candida glabrata, Candida parapsilosis and Candida rugosa Biofilms. *Mycopathologia*. 183(3): 499-511.	2
4	Khanh N.P., Tan S.W., Yeap S.K., Lee H.J., Choi K.S., Hair-Bejo M., Bich T.N., Omar A.R. (2018). Comparative Pathogenicity of Malaysian QX-like and Variant Infectious Bronchitis Virus Strains in Chickens at Different Age of Exposure to the Viruses. *Journal of Comparative Pathology*. 161: 43-54.	2
4	Megahed A.A., Hiew M.W.H., Constable P.D. (2018). Clinical Utility of Plasma Fructosamine Concentration as a Hypoglycemic Biomarker during Early Lactation in Dairy Cattle. *Journal of Veterinary Internal Medicine*. 32(2): 846-852.	2
4	Jajere S.M., Atsanda N.N., Bitrus A.A., Hamisu T.M., Goni D.M. (2018). Occurrence of bovine tuberculosis among cattle herds from nomadic peri-urban settlements and cattle slaughtered at the municipal abattoir of Bauchi, North-Eastern Nigeria. *Journal of Advanced Veterinary and Animal Research*. 5(1): 53-59.	2
5	Saeed O.A., Sazili A.Q., Akit H., Alimon A.R., Samsudin A.A.B. (2018). Effect of corn supplementation on purine derivatives and rumen fermentation in sheep fed PKC and urea-treated rice straw. *Tropical Animal Health and Production*. 50(8): 1859-1864.	1
5	Nur Atikah I., Alimon A.R., Yaakub H., Abdullah N., Jahromi M.F., Ivan M., Samsudin A.A. (2018). Profiling of rumen fermentation, microbial population and digestibility in goats fed with dietary oils containing different fatty acids. *BMC Veterinary Research*. 14(1): 1-9.	1
5	Sohaimi N.M., Bejo M.H., Omar A.R., Ideris A., Isa N.M. (2018). Hexon and fiber gene changes in an attenuated fowl adenovirus	1

	isolate from Malaysia in embryonated chicken eggs and its infectivity in chickens. *Journal of Veterinary Science*. 19(6): 759-770.	
5	Sadiq M.B., Syed-Hussain S.S., Ramanoon S.Z., Saharee A.A., Ahmad N.I., Noraziah M.Z., Khalid S.F., Naseeha D.S., Syahirah A.A., Mansor R. (2018). Knowledge, attitude and perception regarding antimicrobial resistance and usage among ruminant farmers in Selangor, Malaysia. *Preventive Veterinary Medicine*. 156: 76-83.	1
5	Khatun J., Loh T.C., Akit H., Foo H.L., Mohamad R. (2018). Influence of different sources of oil on performance, meat quality, gut morphology, ileal digestibility and serum lipid profile in broilers. *Journal of Applied Animal Research*. 46(1): 479-485.	1
5	Nikbin S., Panandam J.M., Yaakub H., Murugaiyah M. (2018). Association of novel SNPs in gonadotropin genes with sperm quality traits of Boer goats and Boer crosses. *Journal of Applied Animal Research*. 46(1): 459-466.	1
5	Nazli M.H., Halim R.A., Abdullah A.M., Hussin G., Samsudin A.A. (2018). Potential of feeding beef cattle with whole corn crop silage and rice straw in Malaysia. *Tropical Animal Health and Production*. 50(5): 1119-1124.	1
5	Akit H., Collins C., Fahri F., Hung A., D'Souza D., Leury B., Dunshea F. (2018). Dietary lecithin improves feed efficiency without impacting meat quality in immunocastrated male pigs and gilts fed a summer ration containing added fat. *Animal Nutrition*. 4(2): 203-209.	1
5	Tahir D., Shariff M., Syukri F., Yusoff F.M. (2018). Serum cortisol level and survival rate of juvenile Epinephelus fuscoguttatus following exposure to different salinities. *Veterinary World*. 11(3): 327-331.	1
5	Sahabi K., Selvarajah G.T., Abdullah R., Cheah Y.K., Tan G.C. (2018). Comparative aspects of microRNA expression in canine and human cancers. *Journal of Veterinary Science*. 19(2): 162-171.	1
5	Sengupta P., Dutta S., Tusimin M., Irez T., Krajewska-Kulak E. (2018). Sperm counts in Asian men: Reviewing the trend of past 50 years. *Asian Pacific Journal of Reproduction*. 7(2): 87-92.	1
5	Puspitasari Y., Annas S., Adza-Rina M.N., Zamri-Saad M. (2018). In vitro attachment and distribution of pasteurella multocida B:2 in the lung and urinary bladder of buffaloes. *Pakistan Veterinary Journal*. 38(4): 414-418.	1
5	Hussein E.A., Hair-Bejo M., Adamu L., Omar A.R., Arshad S.S., Awad E.A., Aini I. (2018). Scoring System for Lesions Induced by Different Strains of Newcastle Disease Virus in Chicken. *Veterinary Medicine International*. 2018: 1-9.	1
5	Benalywa Z.A., Ismail M.M., Shamsudin M.N., Yusop Z. (2018). An assessment of the impact of government policies on broiler	1

	production in peninsular Malaysia. *International Journal of Poultry Science*. 17(10): 459-466.	
5	Ibrahim H.H., Jesse F.F.A., Abba Y., Chung E.L.T., Marza A.D., Haron A.W., Zamri-Saad M., Omar A.R., Saharee A.A. (2018). Clinical and histopathological study on reproductive lesions caused by pasteurella multocida type B2 immunogens in buffalo heifers. *Bulgarian Journal of Veterinary Medicine*. 21(2): 232-241.	1
5	Kwoji I.D., Tambuwal F.M., Abubakar M.B., Yakubu Y., Musa J.A., Jauro S., Bitrus A.A. (2018). Antibiotic sensitivity patterns of methicillin-resistant staphylococcus aureus isolated from chickens in poultry farms in Sokoto, Nigeria. *Advances in Animal and Veterinary Sciences*. 6(1): 8-11.	1
5	Nisa K., Lim S.Y., Osuga T., Yokoyama N., Tamura M., Nagata N., Sasaoka K., Dermlim A., Leela-Arporn R., Morita T., Sasaki N., Morishita K., Nakamura K., Ohta H., Takiguchi M. (2018). The effect of sedation with a combination of butorphanol and midazolam on quantitative contrast-enhanced ultrasonography of duodenum in healthy dogs. *Journal of Veterinary Medical Science*. 80(3): 453-459.	1
5	Syahniar T.M., Ridla M., Jayanegara A., Samsudin A.A. (2018). Effects of glycerol and chestnut tannin addition in cassava leaves (Manihot esculenta Crantz) on silage quality and in vitro rumen fermentation profiles. *Journal of Applied Animal Research*. 46(1): 1207-1213.	1

Penerbitan Pegawai UPM tahun 2018 dalam bidang Veterinar - 65 penerbitan
UPM Officers publications in 2018 in the Field of Veterinary - 65 publications

GLOSARI /GLOSSARY

a. Petikan - Satu senarai rujukan atau bibliografi yang disebut oleh penulis, biasanya disenaraikan pada akhir kerja. Istilah lain yang digunakan adalah rujukan.

a. Citation - A list of references or a bibliography cited by the authors, usually listed at the end of the work. Another term used is reference.

b. H-indeks - Jumlah petikan yang diterima oleh seorang pengarang berbanding jumlah penerbitan. Sebagai contoh, H-indeks 3, bermakna 3 daripada penerbitan menerima sekurang-kurangnya tiga petikan. H-indeks juga boleh digunakan untuk jurnal, institusi dan negara.

b. H-index - The number of citations received by an author compared to the number of publications. For example, H-index of 3, meaning 3 of the publications received at least three citations. H-index could also be used for journals, institutions and countries.

c. Scopus - pangkalan data pengindeksan yang meliputi pelbagai bidang dan data. Penerbitan termasuk artikel, kertas persidangan, artikel dalam proses penerbitan, ulasan, nota, surat dan bahan editorial.

c. Scopus - indexing database that covers various fields and data. Publications include articles, conference papers, article in press, reviews, notes, letters and editorial materials.

d. Petikan / Rekod - Purata bilangan petikan yang diterima oleh rekod penerbitan dalam sebuah institusi.

d. Citations / Record - The average number of citations received by a record of a publication in an institution.

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