## **Evaluation of radiation shielding parameters for optical materials**

## ABSTRACT

In this work, we have evaluated the mass attenuation coefficient  $(\mu/\rho)$ , half value layer (HVL) and exposure buildup factors (EBF) for Bi-doped tellurite glass, and Dy-doped borate glass. The results show that the Bi-doped tellurite glass has higher  $\mu/\rho$  and HVL than Dy-doped borate glass. These results could be useful in the construction of active shielding against hazardous gamma radiation.

**Keyword:** Amorphous materials; Radiation damage; Mass attenuation coefficient; Half value layer; Exposure buildup factors