



Nuclear Radiation Shielding Glasses and Glass-Ceramics

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submissions:

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Message from the Guest Editors

Dear Colleagues,

The salient features of glasses, such as low cost, optical transparency and good structural and thermal stability, et al., have been attracting much attention for their use as possible alternatives to concrete and lead-based compounds/glasses for radiation shielding purposes at nuclear energy and nuclear medicine facilities. To protect radiation workers, medical personnel, and patients at these facilities from exposure to harmful radiations, the shielding properties of numerous glass systems have been explored, recently, through experimental techniques or appropriate theoretical approaches and Monte Carlo simulations. Specifically, the gamma and fast and thermal neutron radiation shielding characteristics of glasses with heavy metal oxides have been substantially studied as potential nuclear radiation shields. This Special Issue will cover in detail all the relevant radiation shielding glasses and glass-ceramics evaluated by relevant experimental or theoretical and simulation methods. Short communications, full-length research articles, and review articles covering radiation shielding topics are welcome.

Guest Editors





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Message from the Editor-in-Chief

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