Special Issue

Nuclear Radiation Shielding Glasses and Glass-Ceramics

Message from the Guest Editors

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

Prof. Dr. Lakshminarayana Gandham

Dr. Huseyin Ozan Tekin

Prof. Dr. Shams A.M. Issa

Dr. Ashok Kumar

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Ceramics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ceramics@mdpi.com

mdpi.com/journal/ceramics

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Message from the Editor-in-Chief

Ceramics (ISSN 2571-6131), an international, open access journal, provides an advanced forum for ceramics science and engineering. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We are committed to drive *Ceramics* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts. Your contribution should lead to the development of technical ceramics with better performances and to improve our quality of life.

Editor-in-Chief

Prof. Dr. Gilbert Fantozzi
INSA-Lyon, MATEIS Laboratory UMR CNRS 5510, 69621 Villeurbanne, France

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