Special Issue

Nanostructured Glasses and Composites: Innovations in Properties, Microfabrication and Applications

Message from the Guest Editors

Nanostructured materials play a significant role in the advancement of scientific research and engineering technologies due to their optical and physicochemical properties and potential applications. The unique electrical, mechanical, optical, magnetic, and thermal properties of nanostructured glasses that are not present in conventional bulk glass of the same chemical composition, have opened up new areas in research and a next-generation revolution in nanotechnology. The nanostructured glasses and their composites with enhanced functional properties can be used in different fields such as optomechanics, nanofluidics, biomedicine, solar cells, energy storage devices, sensors, actuators, optics, laser technology, lab-on-chip platforms, chemical and biological sensors, etc. This Special Issue is dedicated to new developments in the characterization, structure design, microfabrication processes, and applications of nanostructured glasses and their composites. It is not limited with respect to the type of nanostructured glass or polymer matrix and microfabrication approach. Authors are encouraged to report advances for both novel and well-established microfabrication approaches.

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