Special Issue

Novel Optical and Photonic Glass-Based Materials: Synthesis, Characterization and Application

Message from the Guest Editors

Glass has for decades been a key material, suitable for the creation of a diverse range of passive and active devices, especially for photonics applications, and it has become of great interest for a wide range of applications related to telecommunications, light detection and ranging (LIDAR), solar panels, and spectroscopy, just to cite a few. Research has been focused on the development of new optical glass materials with new functionalities. The aim of this Special Issue is to highlight the latest developments in optical (active and passive) glasses and glass ceramics, and especially to advance the fundamental understanding of the relationship between material chemistry (both composition and structure) and optical, luminescence properties. Topics of interest also include the latest research on advanced characterization of material properties, new processing methods for the fabrication of glasses and glass ceramics, and advances in glass fibers and films.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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