Special Issue

Structure, Properties, and Applications of Optical Glass and Fiber

Message from the Guest Editor

Optical glasses and fibers not only transmit light, but can amplify light and produce a novel light source that covers a wide spectral range from ultraviolet to infrared, depending on the glass host systems and fabrication techniques. The glass host systems include, but are not limited to, silica, silicate, borate, phosphate, etc. The glass composition and structure co-determine the thermal, mechanical, physic-chemical, and optical properties of the produced glasses. For optical fibers, their structural parameters and fabrication techniques play equally important roles in controlling their properties. The high flexibility in regulation of their performance through composition–structure tailoring makes optical glass fibers find increasingly wide applications in high-power laser producing, amplifying, transforming, and advanced fiber sensing, etc. This Special Issue aims to present the latest works and findings of optical glasses and fibers which give contributions to the glass science and technology and fiber photonics. It is our pleasure to invite you to contribute.

Guest Editor

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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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