Special Issue

Fabrication and Optical Properties of Ceramics

Message from the Guest Editor

Magneto-optical and luminescence properties have become important for the development of a new class of functional materials. The Faraday effect has received significant attention with regard to applications of magneto-optical materials. Dispersive MO effects in pure and doped rare-earth ions garnets or sinters are the subject of numerous experimental and theoretical investigations. These effects are used for modulating the amplitude of light and form the basis of optical circulators and optical isolators and that are integral to optical telecommunication networks and various laser applications. This Special Issue focuses mainly on the detection and characterization of magneto-optical and phosphorescence properties in different types of materials. We invite you to present the influence of rare earth ion concentration on magneto-optical and luminescence properties of the material. Articles should pay attention to measurement methodology. We invite authors to submit full-length articles, short communications, and novel research articles that particularly explore magneto-optical phenomena.

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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