Special Issue

Advances in Luminescent Materials: Fabrication and Technological Applications

Message from the Guest Editor

In recent years, optically active materials have attracted considerable interest due to their high potential for the development of technological devices. There is a broad range of materials that can be utilized for optical components, including both organics and inorganics. In this sense, new advanced optical materials are being intensively studied for their technological applications such as lasers, color displays, light emitting diodes, sensors, solar cells, and optical amplifiers. The aim of this Special Issue is to highlight the latest advances in luminescent research. Its scope covers the synthesis and structural characterization of materials, the study of optical properties, and possible technological applications. The topics of interest include the following:

- Processing methods
- Structural and functional characterization
- Optically active polymers, crystals, and glass ceramics
- Rare-earth doped materials
- Laser technology
- Nanophotonic materials
- Nonlinear photonics
- Optoelectro-mechanical systems
- Optical devices
- Optical materials
- Optical sensors
- Photonic applications
- Color displays
- Ultrafast optoelectronics
- Anti-counterfeiting

Guest Editor

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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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