

Special Issue

Photonic Materials for Optical Waveguide Application

Message from the Guest Editor

This Special Issue will cover advances in photonic materials science, synthesis, structural and optical characterization of different types of photonic materials, and optical waveguides. Optical waveguides have attracted great attention in the recent past from both a fundamental and applied research point of view. The development of lasers, amplifiers, and broadband sources of amplified spontaneous emission is closely connected with research on new photonic materials and the construction of novel optical waveguides doped with luminescent centers like rare earth ions and organic dyes. On the other hand, the construction of photonic crystal fibers for supercontinuum and sensing applications, plasmonic materials, and waveguides are still hot scientific topics. Moreover, new materials require novel waveguide fabrication methods, e.g., 3D printing, laser writing, etc.

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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