

Special Issue

Polymer Optical Fiber Sensors and Devices

Message from the Guest Editor

In the last decade, there has been great progress in the synthesis of functional polymers. The new synthesis and doping methods of optical polymers enable physically, chemically, and optically active materials. The latest reports include systems doped with functional compounds that enable the achievement of the electro-optic effect, nonlinear, optically, and electrically induced luminescence, and photochromic, thermochromic, and chemically active structures. These achievements give a great opportunity for new polymer fiber structures and device constructions.

In this Special Issue, novel constructions of polymer optical fiber-based sensing structures devices are highlighted and discussed. It is my pleasure to invite you to submit a manuscript for this Special Issue.

The Special Issue will cover (but not be limited to) the following topics:

- Optical sensors (chemical, physical, environmental, etc.)
- Synthesis, characterizations, and applications of polymeric sensing materials
- Optical fiber technology for production polymer sensors
- Photoactive polymer optical fibers
- Polymer-based photonic devices

Guest Editor

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About the Journal

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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