Special Issue

Photonic Sensor Materials: Properties and Applications

Message from the Guest Editor

Photonics is closely related to the technology of generating and using light and other forms of radiant energy whose quantum unit is the photon. Photonics involves a wide range of applications of lasers, optics, solid-state lighting, fiber optics, electro-optical devices, and inter alia photonic sensors. This Special Issue aims to present recent advances in photonic sensors based on different configurations and materials that can be used in numerous and diverse fields of technology as alternate energy, manufacturing, health care, telecommunication, environmental monitoring, homeland security, and aerospace. The applications of photonic sensors may cover many areas, ranging from new concepts still experienced in laboratories to sensing systems to be made available on the market, even in highly differentiated sectors, such as biomedicine and biotechnology, micro- and nanotechnology, construction and engineering, alternate energy and green solutions, chemical technology, transportation, gas sensing, defense, space, and so on. We invite you to submit a manuscript(s) for this Special Issue. Full papers, communications, and reviews will be more than welcome.

Guest Editor

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Deadline for manuscript submissions

closed (20 January 2024)

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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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