Special Issue

Novel Optical Fibers, Devices and Applications

Message from the Guest Editors

Optical fiber technology has achieved major advances in the last few decades, and has revolutionized key application fields, including those of communications, sensing, and lighting. To a large extent, the progress can be attributed to the continuous research efforts and resulting accomplishments for the realization of improved, new, optical fibers. Starting with the endeavor, in the early days, to fabricate fibers with good guiding characteristics, and continuing with the abiding interest in the design and fabrication of specialty fibers targeting specific applications, new fibers are at the forefront of emerging innovations. The aim of this Special Issue is to feature recent advances in the field of novel fibers, their devices and applications, in terms of, but not limited to, fiber material and properties, design and fabrication, light localization structures, fiber surface functionalization through sensitive materials and transducing techniques, and components and sensing systems. It is our pleasure to invite you to contribute original full research papers, short communications, and state-of-the-art reviews in this Special Issue.

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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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