Special Issue

Optical Properties of Holographic Polymer-Based Composites

Message from the Guest Editors

This Special Issue of *Materials* is devoted to the "Optical Properties of Holographic Polymer-Based Composites". Holographic polymer-based composites are polymers in which holograms can be recorded. Those materials are increasingly used to fabricate a large variety of devices ranging from simple passive optical components (filters, sensors) to complex active optical components (organic lasers, chem-biofunctionalized devices) to be used in several research fields, ranging from all-optical active and passive photomobile devices to solar concentrators or optical components for large area telescopes. Mono- or multidimensional patterned polymers are continuously developing due to their unique flexibility, low cost, easy processability, and functionalization. The study of their optical properties is of fundamental importance for the development of new and better-performing mixtures. This Special Issue is intended to enable scientists and engineers to exchange their latest theoretical, experimental, and computational knowledge concerning the optical properties of holographic polymer-based composites and their possible applications.

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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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