Special Issue

Theoretical Modeling and Computation for Nanophotonics

Message from the Guest Editor

This Special Issue focuses on the theoretical computation of optical detection and imaging, technological equipment, big data processing, and their interdisciplinary applications in materials, biomedicine, the environment, and other fields. The research highlights are centered on high-throughput online analysis techniques for suspended particles and comprehensive polarization imaging characterization of scattering media. Key areas include the systematization of measurement instruments, optical modeling and simulation platforms for media and particles, and intelligent information extraction from optical big data. We kindly invite researchers worldwide to showcase their research results (in the forms of research articles, reviews, and comments) on this topic.

Guest Editor

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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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