Special Issue

Photonic and Plasmonic Crystals

Message from the Guest Editor

Dear colleagues, Plasmonic and photonic materials, structures and phenomena have received a lot of attention due to their extraordinary properties, including the control and manipulation of light and other electromagnetic modes and radiation. With the maturity that this field has attained and the knowledge gained, researchers are starting to investigate plasmonic and photonic crystal phenomena in novel, exotic or hybrid materials and/or structures, as well as metamaterials, metasurfaces, and other periodically patterned structures. Such structures include layered materials where the precise control of plasmonic dispersion curves is desired, hybrid plasmonic/photonic crystal hybrid structures with prescribed electromagnetic properties, plasmonic effects in doped oxides, plasmonic effects at size-scales heretofore not considered, and in general, novel effects within periodically patterned materials. It is my pleasure to invite you to submit a manuscript to this Special Issue. Full papers, communications, and reviews are all welcome.

Guest Editor

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Deadline for manuscript submissions

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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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