Special Issue

Advances in Nanoscale Optics

Message from the Guest Editor

The introduction of optical fibre networks in the 1980s along with the ongoing merger of optics and electronics has led to light becoming the major information carrier and manufacturing tool in 21st-century society. One cannot imagine modern life without the internet, telecommunication, data storage, additive/subtractive manufacturing, and modern display technologies. Essential to the evolution of these critical societal technology platforms is the ability to control light with high spatial, intensity, and temporal resolution. Subsequently controlling light on the nanoscale has become a major area of multidisciplinary research in the last decade and continues to grow at an exponential rate. Within this context, this Special Issue welcomes submissions on the following topics:

- **Novel materials and fabrication processes**
- **Integrated optical devices**
- **Metamaterials, metadevices, and metasystems**

Keywords

- nanoscale optics
- integrated optics
- metamaterials
- reconfigurable devices
- silicon photonics
- nonlinear optics
- 2D materials
- complex semiconductors

Guest Editor

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Deadline for manuscript submissions

closed (1 March 2021)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/31987

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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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