Special Issue

Photoactive Materials: Synthesis, Applications and Technology

Message from the Guest Editor

This Special Issue of MDPI *Materials* aims at collecting a broad range of original research articles on the topics of light–matter interaction and new photoactive materials and structures. We invite submissions of novel and original papers as well as reviews that extend and advance our scientific and technical understanding of light–matter interaction, photoactive material synthesis, and their applications in areas that include, but are not limited to:

- Material for quantum optic (single photon emitter/detector, quantum state storage, nonlinear processing)
- Nonlinear optical material (Kerr, two-photon absorption, saturable absorber),
- Photorefractive materials (crystal, polymer, hybrid).
- Photochromic materials (glass, azo-dye, chromophore).
- Spectral and orientational hole-burning.
- Plasmonic and photonics material and structures (optical nano-antenna, active nanoparticles).
- 2D material for optics (graphene, RGO, MoS2, WS2).
- Metamaterials (negative index, gradient index, optical cloaking).
- Magneto-optics material (high Verdet constant, optical isolator).

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2020)

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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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