Special Issue

Optoelectronic Devices: 2021

Message from the Guest Editor

The demand for optoelectronic devices, relying on light-matter interactions to convert photons into electrons or vice versa, have considerably grown as their related applications continue to dominate a vast variety of consumer products used in our daily life. This Special Issue seeks original submissions in developing novel optoelectronic devices, and the research topics cover but not are not limited to the following: new techniques for the growth, heterogeneous integration, and characterization of optical materials and optoelectronic devices for the applications in solar cells, LEDs, and lasers devices. Fabrication, characterization, and material properties of various photonic platforms, such as III-V and group-IV optoelectronics, nanostructures, 2D materials, etc. are also included. Advanced concepts, rather than the established designs for new applications, such as nanophotonics, microcavity polaritons, metamaterials, and topological photonics and materials explore the fundamentals of light-matter interactions, and consequently enhance performances of optoelectronic devices.

Guest Editor

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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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