



materials



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Optoelectronic Devices: 2021

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submissions:

closed (31 January 2022)

Message from the Guest Editor

Dear Colleagues,

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.



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Special Issue



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Message from the Editor-in-Chief

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