



Advances in Optoelectronic Devices: Materials, Designs and Applications

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Message from the Guest Editors

Dear Colleagues,

With the progress of nano-fabrication, nano-optics, and the discovery of new materials, significant research is being conducted on the development of next-generation optoelectronic devices that can be applied in diverse fields, including energy, IoT sensors, biomedical devices, and novel silicon photonics.

This Special Issue focuses on the topic of emerging optical devices, such as photodetectors, solar cells, light-emitting devices, and silicon photonics, which include modulators, waveguides, and metasurface elements. In particular, we focus on the progress of the aforementioned devices promoted by cooperatively designing them with emerging new materials such as colloidal quantum dots and novel optical phenomena such as surface plasmonics and Mie-tronics.





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Message from the Editor-in-Chief

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