

Special Issue

Advances in Optoelectronic Devices: Materials, Designs and Applications

Message from the Guest Editors

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.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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