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Optoelectronic Devices: Design, Fabrication, Characterization, Application and Challenges

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Deadline for manuscript submissions:

closed (20 July 2024)

Message from the Guest Editors

Optoelectronic devices encompass a diverse and growing field of study, focusing on the interaction between light and electronics, spanning from gamma rays to microwaves. The domain of optoelectronics capitalizes on quantum mechanical effects, with applications ranging from traditional semiconductor devices to novel technologies such as superconducting devices.

This Special Issue of *Materials* is dedicated to the exploration of optoelectronic devices, covering aspects including the design, fabrication, characterization, applications, and challenges associated with these cutting-edge technologies. Our goal is to provide a platform for researchers to showcase their most recent work, foster inspiration and collaboration, and facilitate networking within the research community.

As a prominent contributor to this field, we cordially invite you to share your latest research in this Special Issue. In addition, we welcome review papers that address pertinent topics. We look forward to your contributions and the opportunity to advance this exciting area of research together.



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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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