

Special Issue

Advanced Materials in Photoelectrics and Photonics

Message from the Guest Editors

Optoelectronics and photonics, at the forefront of modern technological innovation, leverage light-matter interactions to develop solutions across a broad spectrum of applications—from energy generation to communication systems. Authors are encouraged to submit original research articles, reviews, and case studies that discuss significant advances in material science as applied to solar energy materials, LEDs, lasers, and sensors. Research contents include manufacturing (including material growth, epitaxial processes, coatings, etc.), simulation (including theory, calculation process, modeling, etc.), analysis and application of materials or materials in devices, etc. Submissions should clearly articulate the novel aspects of the research and its potential impact on the field of optoelectronics and photonics. Comparative studies that highlight improvements over existing solutions are highly encouraged. This Special Issue seeks to compile a comprehensive overview of the latest research and developments in the field, aiming to inspire further research and practical applications.

Guest Editors

Prof. Dr. Fu-Der Lai

Prof. Dr. Yilin Yang

Prof. Dr. Wen-Ching Hsieh

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About the Journal

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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