Special Issue

Microstructures and Coatings for Advanced Optoelectronic Materials

Message from the Guest Editors

This Special Issue, Microstructures and Coatings for Advanced Optoelectronic Materials, highlights groundbreaking advances driving the next generation of optoelectronic innovation. From precision-engineered microstructures to multifunctional coatings, the featured research demonstrates how smart material design enables higher efficiency, longer durability, and wider use across devices such as solar cells, LEDs, sensors, and photodetectors. Beyond performance, the contributions emphasize sustainability and adaptability, addressing critical challenges in renewable energy, environmental protection, and wearable technologies. By combining materials science, nanotechnology, and applied physics, this collection positions optoelectronic research at the forefront of technological progress. It provides a forward-looking roadmap for developing robust, eco-friendly, and commercially viable systems that will power future communication, energy, and photonic applications worldwide.

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Deadline for manuscript submissions

20 July 2026

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/252019

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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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