

Special Issue

Advanced Materials for Solar Energy Utilization

Message from the Guest Editors

Photochemical technology can directly convert solar energy into electricity and chemicals, and it can degrade a wide range of organic pollutants into easily degradable intermediates or less toxic small molecular substances. It is regarded as one of the most important ways to solve the global energy shortage and environmental pollution problem. In addition, photochemistry may play a key role in fields such as green chemistry, energy production, or nanomedicine. Therefore, our aim in this Special Issue focuses on advanced solar-energy-utilization materials, including but not limited to photochemical materials for water splitting, CO₂ reduction, ammonia synthesis, photovoltaic, H₂O₂ synthesis, pollutant degradation, organic synthesis, etc. We look forward to receiving your contributions (both original research papers and reviews) soon, so we can present your excellent findings to a broad audience via open-access publication and provide the research community with new perspectives on advanced photochemical materials and their solar energy utilization.

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Deadline for manuscript submissions

closed (20 July 2025)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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About the Journal

Message from the Editorial Board

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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