

## 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, CO<sub>2</sub> reduction, ammonia synthesis, photovoltaic, H<sub>2</sub>O<sub>2</sub> 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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### Guest Editors

Dr. Xingwang Zhu

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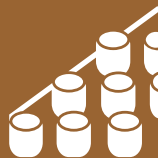
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### Deadline for manuscript submissions

20 January 2025



## Materials

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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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### Editor-in-Chief

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