

Special Issue

Advanced Photocatalytic Materials for Environmental and Energy Applications

Message from the Guest Editors

With the development of modern society, environmental pollution and energy shortage have become the focus of world attention. A majority of the global energy supplies are generated from fossil fuel, which gives rise to environmental pollution and climate change.

Photocatalysis technology, which can directly convert solar energy into high value-added fuel and chemical materials or degrade a wide range of organic pollutants into easily degradable intermediates or less toxic small molecular substances, is regarded as one of the most important ways to solve the global energy shortage and environmental pollution problem. This Special Issue focuses on advanced photocatalytic materials, including but not limited to photocatalytic materials for water splitting, CO₂ reduction, ammonia synthesis, H₂O₂ synthesis, pollutant degradation, organic synthesis, etc. We welcome colleagues worldwide who are working in the field of photocatalysis to publish papers in this Special Issue.

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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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