

Special Issue

Advances in Photocatalyst Materials and Green Chemistry

Message from the Guest Editor

The global challenges of environmental pollution and energy scarcity have led to significant attention toward innovative solutions. This Special Issue aims to address these issues by focusing on the intersection of two critical fields: photocatalysis technology and green chemistry. Photocatalysis, with its ability to convert solar energy into valuable fuels and chemicals while mitigating organic pollutants, stands out as a promising approach to combat global energy shortages and environmental pollution. This call for papers is extended to researchers worldwide who are actively contributing to the field of photocatalysis, particularly those working on advanced photocatalytic materials. Green chemistry, as an overarching philosophy, complements this initiative by emphasizing the design of chemical products and processes that prioritize sustainability. It not only prevents pollution at the molecular level but also spans across all facets of a chemical product's life cycle, from design to disposal. By applying innovative scientific solutions, green chemistry results in a source reduction, effectively preventing the generation of pollution.

Guest Editor

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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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