

Special Issue

Photocatalytic Materials for Energy and Environmental Applications

Message from the Guest Editors

The purpose of this Special Issue, entitled "Photocatalytic Materials for Energy and Environmental Applications", is to cover promising recent research and novel trends in the field of photocatalysis, mainly in the frame of pollution control and energy production.

Welcome are studies addressing challenges in photocatalysts's development, such as the improvement in synthesis and characterization methods, the optimization of composition and properties for a given application, and also the investigation of kinetic and mechanistic aspects. Additionally, the design of reaction systems to work under solar light, to increase the light contact efficiency or to achieve processes intensification, are also regarded as interesting topics. The potential of photocatalysis for transformations in gas and liquid phase is vast, but this issue is particularly focused in applications in which the target is either the removal of pollutants or the production of energy vectors like hydrogen or other fuels.

Guest Editors

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Deadline for manuscript submissions

closed (30 August 2019)



Materials

an Open Access Journal
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Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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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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