

Special Issue

Photocatalytic Materials for Environment Treatment and Energy Production

Message from the Guest Editor

Photocatalysis technology (PC) has received increased attention due to its high potential for addressing both environmental and energy issues, using only sunlight as energy input. However, the industrial-scale PC technology development is still limited due to the rather low efficiency which significantly depends on the photocatalyst materials. There are a wide range of materials with photocatalytic applications, such as semiconductors (metal oxides, metal sulfides/selenides, etc.), semiconductor-based heterojunctions (micro/nano composite structures, binary or ternary hybrid structures etc.), transition metal spinel type mixed oxides, perovskites, metal organic frame works (MOFs), hydrogels and waste-derived or templated photocatalytic materials. Thus, the development of innovative, advanced and operative technologies using efficient, environmentally, sustainable and reusable photocatalytic materials was and remain the main challenge for the worldwide scientific community. Considering the above-mentioned issues, but not limited to these, it is our pleasure to invite you to submit a manuscript to this Special Issue.

Guest Editor

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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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