Special Issue

Synthesis, Characterization, and Applications of Photocatalysts

Message from the Guest Editor

Photocatalytic technology, as a green environmental protection technology, has received extensive attention and experienced rapid development. Especially in the application of environmental remediation, photocatalytic technology has become a global research hotspot. Compared with the traditional physical, chemical, and biological treatment processes, photocatalytic technology has the characteristics of mild reaction conditions, strong degradation ability, and complete degradation of pollutants. At the same time, it has the advantages of simple operation, rapid reaction, and without secondary pollution. With the development of society, the impact of organic substances such as pharmaceutical and personal care products (PPCPs), antibiotics, and pesticides on the environment has gradually attracted extensive attention. Photocatalytic treatment of these organic polluted water bodies has high environmental application value. Therefore, the goal of this special issue is focused on the synthesis, physical and chemical properties of new photocatalysts and the degradation and removal of environmental organic pollutants.

Guest Editor

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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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