Special Issue

Photocatalytic Properties and Kinetics of Materials

Message from the Guest Editor

Photocatalytic materials have been the subject of extensive studies in the last decade due to their unique properties such as promoted catalysis, adsorption surface, and high reactivity in mild conditions. This Special Issue is devoted to exploring and highlighting the relationships between the structure, morphological and optical properties, and the features of photocatalysts and photoactivity. The synthetic procedures, including doping, semiconductor coupling, and surface coating, can noticeably affect the physicochemical properties of semiconductors. In this Special Issue, frontier researchers and colleagues are invited to present original papers and review articles involving (without being limited to) the topics listed below:

- materials for photocatalytic water and wastewater treatment
- materials for sustainable photocatalytic synthesis
- materials for photocatalysis under visible light
- materials for CO2 photoreduction
- materials for air purification
- materials for bacterial photoinactivation

Guest Editor

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Deadline for manuscript submissions

closed (10 July 2023)

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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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