

Special Issue

Innovative Functional Materials in Photocatalysis, 2nd Edition

Message from the Guest Editors

One hot spot in the research on heterogeneous semiconductor photocatalysis is the achievement of high efficiency under visible solar energy using stable, inexpensive, and sustainable photocatalytic materials, such as those made by green chemistry. The processing, characterization, and photocatalytic application of a wide range of differently shaped (powders, ceramics, thin films, membranes, nanomaterials) semiconductor materials of metal oxides, metal chalcogenides, inorganic–organic hybrids with conjugated polymers, and nanocomposites with resin, clay or zeolite, are of interest for this Special Issue. Topics of interest include, but are not limited to, metal oxides; metal chalcogenides; composite semiconductors; inorganic–organic hybrids with conjugated polymers; and nanocomposites with resin, clay, or zeolites, and the investigation of these materials in terms of the following:

- Synthesis and characterization;
- Powders, ceramics, thin films, functional membranes, nanomaterials;
- Green chemistry;
- Photocatalysis;
- Antimicrobial activity;
- Environmental protection;
- Energy conversion.

We welcome the submission of full papers, short communications, and reviews.

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