

Special Issue

Innovative Functional Materials in Photocatalysis

Message from the Guest Editors

We especially welcome papers that give straightforward solutions to ecological and economically feasible wastewaters treatments and clean and sustainable production of energy. Papers on innovative functional materials for the generation of oxygen/hydrogen, conversion of methane, and separation of natural gas are welcome as well.

The articles presented in this Special Issue will cover various topics, ranging from the synthesis of semiconductors and their characterization to their specific applications, especially for their use in advanced oxidation processes. Of special interest are advances in semiconductors' better efficiency in the degradation of water contaminants under visible light irradiation. Topics of interest include but are not limited to: Metal oxides, metal chalcogenides, composite semiconductors, conjugated polymers, inorganic-organic hybrids, and zeolites:

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

The format of welcomed articles includes full papers, short communications, and reviews.

Guest Editors

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Editor-in-Chief

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JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).