

Special Issue

Cutting-Edge Developments in Photocatalysis and Photovoltaics

Message from the Guest Editors

The aim of this Special Issue is to highlight recent advancements and emerging trends in the fields of photocatalysis and photovoltaics, two critical areas driving innovation in sustainable energy conversion and environmental applications. This Special Issue seeks to provide a platform for researchers to present novel materials, advanced fabrication techniques, and fundamental insights into the mechanisms that govern these processes. In this Special Issue, original research articles, review articles, and mini reviews are encouraged. Research areas may include (but are not limited to) the following:

- Characterization techniques with resolution down to the atomic and sub-atomic levels;
- Understanding the mechanisms by surface modification and defect engineering in photocatalytic and photovoltaic processes;
- Synergistic approaches in light harvesting and energy utilization;
- Tandem solar cells and hybrid photovoltaic systems;
- Hybrid solar-to-fuel and solar-to-electricity systems.

We look forward to receiving your contributions.

Guest Editors

Prof. Dr. Jianfeng Zhao

Dalian Institute of Chemical Physics Chinese Academy of Sciences,
Dalian, China

Dr. Zhiping Yan

School of Flexible Electronic (Future Technologies), Nanjing Tech
University, Nanjing, China

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Surfaces
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
surfaces@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Surfaces and interfaces are ubiquitous, and their relevance in Chemistry, Physics, Catalysis, Materials Science & Engineering, Nanoscience, Biology and Nanomedicine is nowadays well acknowledged. Similarly, surfaces cannot be neglected when targeting applications in many strategic fields, such as sensors, energy conversion and storage, environmental and food science, and medical devices.

Surfaces is a new Open Access journal that will provide rapid publication of scholarly articles on studies related to surfaces and interfaces. Its mission is to publish cutting edge articles and conference proceedings and organizing special issues to highlight outstanding research on specific topics, encouraging the application of a rigorous Surface Science-based approach to many complex interesting phenomena and breaking boundaries among different disciplines.

Editor-in-Chief

Prof. Dr. Gaetano Granozzi

Department of Chemical Science, Università degli Studi di Padova,
Padua, Italy

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, CAPlus / SciFinder, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).

Journal Rank:

CiteScore - Q2 (Materials Science (miscellaneous))