

Special Issue

Advances in Solid–Liquid Interface Science: From Fundamentals to Applications

Message from the Guest Editors

This Special Issue, "Advances in Solid–Liquid Interface Science: From Fundamentals to Applications," seeks to provide a comprehensive exploration of breakthroughs governing physical, chemical, and electrochemical interactions at solid–liquid interfaces. Emphasis is placed on ion adsorption, surface reactivity, and electrochemical behaviour. Emerging applications of solid–liquid interface science—such as advanced materials for energy storage, environmental remediation, and catalysis—will also be highlighted. Advances in nanomaterials, smart coatings, and interface engineering are transforming the way we approach challenges in energy storage devices, water purification, and corrosion control. The Issue will feature cutting-edge studies that explore experimental techniques and theoretical models, shedding light on the role that these interfaces play in a wide range of scientific and technological advancements. By gathering top-tier research on interface behaviour, interfacial charge transfer, and surface chemistry, this Special Issue aims to deepen our understanding of solid–liquid interfaces and their critical role in the development of next-generation technologies.

Guest Editors

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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

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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))