

Special Issue

Surfaces on Emerging Chemical Sensing Applications

Message from the Guest Editors

In the recent years, the growing demand for sensing and/or monitoring in environmental and biological systems has led to the development of new chemical sensing technologies. These emerging chemical sensors have been employed in different areas, ranging from air quality monitoring for toxic and explosive gases up to biomarker species in the diagnostics of human diseases, among others. Thus, this Special Issue is devoted to reports of relevant scientific and technological developments on the processing, manufacturing, and evaluation of chemical sensors. Potential topics include, but are not limited to, novel synthesis routes or approaches aiming improved sensing performance, advances in the manufacturing of nanosensor-based devices, in situ and in operando characterization approaches for sensing mechanisms, and theoretical and computational studies in sensing phenomenology, among others. Submissions describing sensors based on SMOx, polymers, carbon, biological materials, and 2D-nanomaterials, among others, using electrical, electromagnetic, chemical, and optical principles are encouraged.

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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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).

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