Special Issue

Design of Catalytic Surfaces for Waste Valorization

Message from the Guest Editors

The global need for sustainable processes has driven significant interest in the design and optimization of catalytic surfaces for the efficient transformation of waste materials into valuable chemicals and fuels. The development of heterogeneous catalysts with tailored surface properties plays a key role in advancing waste valorization strategies. These catalysts enable selective and energy-efficient transformations, thereby contributing to the circular economy and reducing environmental impact. This Special Issue aims to highlight recent advances in the development, characterization, and application of catalytic surfaces for the valorization of industrial and agro-industrial waste. This approach aligns with the scope of the journal by exploring both the fundamental and applied aspects of surface science in catalysis, encompassing the design of active sites, the control of textural properties, and the study of reaction mechanisms, all of which are crucial for optimizing catalytic performance. We look forward to receiving your contributions.

Guest Editors

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Dr. Matías Gastón Rinaudo

Deadline for manuscript submissions

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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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