Special Issue

Recent Advances in Catalytic Surfaces and Interfaces

Message from the Guest Editors

The rational design and development of cost-efficient and highly active catalytic materials is currently one of the main research pillars in the field of heterogeneous catalysis. To this end, surface and interface engineering are among the most efficient strategies toward the fabrication of innovative and advanced catalytic materials. A prerequisite for this is a fundamental understanding of the structure–performance relationships at the (near-) atomic scale; these, however, remain a formidable challenge due to the complexity of heterogeneous catalytic processes. Recent progresses in nanosynthesis with uniform and well-defined structures, fine-tuning engineering strategies (size/shape control), in situ characterization techniques, and theoretical calculations have offered unique opportunities towards the fundamental understanding of surface and interface phenomena, which in turn could pave the way for the rational design of catalytic systems.

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

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