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Electrochemical Surface Science: Basics and Applications

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

Electrochemical surface science (EC-SS) is the natural advancement of traditional surface science (where gas-vacuum/solid interfaces are studied) to liquid(solution)/electrified solid interfaces. Such a merging between two different disciplines, i.e., surface science (SS) and electrochemistry, has been officially advanced ca. three decades ago. The main peculiarity of EC-SS versus electrochemistry is the reductionist approach, inherited from SS, aiming at understanding at atomic level the microscopic processes occurring at electrodes. Few exemplar keystones tools of EC-SS are EC-scanning probe microscopies, operando and in-situ spectroscopies and electron microscopies, differential EC mass spectrometry (DEMS), etc.

In this Special Issue, papers addressing both basic science and more applied issues in the field EC-SS and energy conversion and storage materials are very welcome.

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Editor-in-Chief

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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.

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