Special Issue

Surface Aspects of Semiconductor Photochemistry

Message from the Guest Editors

The study of photochemical systems that use sunlight to catalyze chemical reactions for the environment remediation or for concentrating solar energy into renewable fuels is a key topic for granting sustainability. While photon absorption, hole/electron separation and diffusion are not surface phenomena, the final steps of the complete process (i.e., the reactive events) are played at surfaces and ruled by them. So, an approach to a rational design of semiconductor photocatalysts cannot give up the assistance of surface science based tools and methods. They can provide both a deep and direct probing of the reaction sites, and, adopting time-resolved tools, provide dynamical details of reactions at the surfaces. Such information is of value for the optimization of several strategic processes, e.g., water splitting, CO2 reduction and artificial photosynthesis. **This Special Issue is dedicated to the 7th International Conference on Semiconductor Photochemistry (SP7), https://www.sp7.unimi.it/.**

Guest Editors

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closed (15 February 2020)

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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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