Special Issue

Advanced Thin Films, Surface and Interface in Photocatalytic Applications

Message from the Guest Editor

Photocatalysis is currently one of the most rapidly developing disciplines, involving the degradation of environmental pollutants, chemical synthesis, hydrogen evolution, carbon dioxide reduction, and many other catalytic fields. The efficiency of photocatalytic processes is closely related to the absorption of photons by catalytic materials, the excitation and transfer of photo-generated electrons (holes), and the formation efficiency of various free radicals. The scope of this Special Issue includes, but is not limited to, the following topics:

- Construction of new photocatalytic heterojunction surfaces/interfaces and their applications;
- Preparation and application of novel photocatalytic thin films and coatings;
- New applications of photocatalytic surfaces/interfaces in the field of photocatalysis;
- In-depth analysis of photocatalytic mechanism occurring around thin films, surfaces, and interfaces;
- Theoretical study and analysis of surface photocatalytic process based on DFT.

We look forward to receiving your contributions.

Guest Editor

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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