

Micro-Nano Optics and Its Applications

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Message from the Guest Editors

The rapid growth of micro/nano-optics has benefited from the continuous quest to design and build innovative nanostructures. At present, there is a strong interest in exploring the unconventional properties and advantages offered by alternative plasmonic nanostructures (beyond noble metals), high or giant refractive index nanostructures, perovskite nanostructures, quantum confined nanostructures (two-dimensional or three-dimensional), and hybrid nanostructures.

In this Special Issue, we aim to provide a timely perspective on the advances in micro/nano-optics related to such novel nanostructures. Topics to be covered include (but are not limited to) the following:

- Fabrication of nanostructures;
- Optical properties of nanostructures;
- Nanostructured metamaterials: fabrication and optical properties;
- Biosensing based on surface plasmon resonance;
- Interaction between laser and matter;
- Applications, e.g., sensing, photocatalysis, photovoltaics, lighting, and switching.



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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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