Special Issue

Micro-Nano Surface Functionalization of Materials and Thin Films for Optical Applications

Message from the Guest Editors

Special Issue Information This Special Issue will provide a meaningful overview of recent advances and beyond the state of the art concepts regarding surface functionalization of materials and deposition of thin films to be used in optical applications. Our aim is to cover all relevant aspects of the topic (simulation, design, fabrication, characterization and applications) with a special emphasis on non-conventional methods for surface modification of materials. In particular, the topics of interest of this Special Issue include, but are not limited to:

- Simulation of optical properties of micro and nano structures
- Fabrication of optical structures and thin films using vacuum technologies (PVD, CVD, ALD, etc.)
- Emerging fabrication technologies for nano and micro optical structures (nanoimprint lithography, additive manufacturing, hybrid technologies etc.)
- Nano and micro structures and thin films for ultra-broadband optical applications, light guiding and energy conversion
- New concepts for antireflective nano and micro structures and thin films

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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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