

Special Issue

Nanoimprint Lithography Technology and Applications

Message from the Guest Editor

Nanoimprinting and nanoimprint lithography have evolved tremendously since their beginnings in the mid-1990's, and have had an impact on a wide application field, ranging from optics to life sciences, from organic electronics to photovoltaics.

The nanoimprint processes can be based on light-curing materials, thermally curing materials, thermoplastic materials or can be material transfer processes like, for example, microcontact printing processes. Nanoimprint materials range from classical resists for pattern transfer processes like reactive ion etching, to permanent materials for optical or biological applications. Along with the different processes and material requirements come different stamp concepts and stamp materials.

This Special Issue will attempt to cover the most recent advances and the state-of-the-art in the field of nanoimprinting and nanoimprint lithography as far as the processes, tools, materials, and applications are concerned. Contributions ranging from basic research to industrial applications will be considered. Papers dealing with applications addressing societal challenges like climate change are highly welcome.

Guest Editor

Dr. Michael Mühlberger

Functional Surfaces and Nanostructures, Profactor GmbH, Steyr-Gleink, Austria

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of
Birmingham, Birmingham B15 2TT, UK

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