Special Issue

Advance in Nanoimprint Technology

Message from the Guest Editor

Nanoimprint technology is a nanoscale pattern transfer technology using molds. Many applications are now created by nanoimprint technology, and industrial-level devices are being realized. This Special Issue of *Nanomaterials* will concern “Advances in Nanoimprint Technology”. We invite submissions of original research articles or comprehensive reviews on, but not limited to, the following topics:

- Novel pattern transfer techniques using nanoimprint technology
- Three-dimensional nanostructure fabrication techniques using nanoimprint technology
- Additive nanopattern transfer technology for curved surfaces
- Replica mold techniques and their transfer properties
- High-hardness and highly transparent nanopatterned films for functional surfaces
- Roll-to-roll nanoimprint technology
- Analytical methods for pattern shapes, the lifetimes of replica molds, the release coatings on molds, etc
- Simulations for pattern transfer using molecular dynamics simulation
- Metal or ceramic nanopattern transfer using nanoimprint technology

Guest Editor

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Deadline for manuscript submissions

closed (30 March 2023)

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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
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