Special Issue

Advanced Nanofabrication and Nanolithography

Message from the Guest Editor

In recent years, the rapid evolution of nanolithography—from optical and electron-beam lithography to maskless and hybrid multiphoton direct writing—has significantly expanded the capability to manipulate matter at the nanoscale. Meanwhile, emerging nanofabrication approaches such as plasmonic lithography, nanoimprint, atomic layer etching, and self-assembly have demonstrated remarkable potential for fabricating functional nanostructures with unprecedented resolution and complexity. This Special Issue on "Advanced Nanofabrication and Nanolithography" aims to gather original research articles, communications, and comprehensive reviews that present the latest advances in nanoscale patterning, material processing, and device integration. Topics of interest include, but are not limited to, next-generation lithographic technologies, nanoscale additive manufacturing, hybrid optical–electronic nanofabrication, and applications in photonics, electronics, energy, and bioengineering. Through this Special Issue, we hope to foster cross-disciplinary collaboration and inspire new strategies for scalable, precise, and intelligent nanomanufacturing.

Guest Editor

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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