Special Issue

Advanced Nanomaterials Fabrication and Ablation by Lasers

Message from the Guest Editor

To date, laser-derived technology, including laser melting, laser fragmentation, laser ablation, pulse laser deposition, etc. has been deemed as one outstanding and unique strategy for fabricating functional nanostructures and preparing advanced nanomaterials. By comparison of general chemical methods, advanced nanomaterials fabrication and ablation by lasers presents unique advantages, including, rapid process, controllability, without many chemical reagents, large-scale, limitless in material or medium. Many international groups made a lot of contributions in understanding the generation mechanism of nanomaterials/nanostructures, modeling of growth processes, up-scaling preparation, and implementation in the semiconductor manufacturing process, renewable energy, bionics, and biomedical applications. For detailed information please see the special issue homepage. We welcome papers sharing your research and advances in this field for publication in this Special Issue of *Nanomaterials*.

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.

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