Special Issue

Synthesis of Nanostructured Materials Induced by Laser Irradiation

Message from the Guest Editors

The most obvious advantages of laser-induced approach to the synthesis of nanoscale/nanostructured materials are associated with the possibility of high-precision control of the laser parameters, and as a result high-precision control of properties of the synthesized materials. Thus, taking into account the specifics of developing chemical processes, laser synthesis can be considered both as an actual field of science and as a promising approach for synthesis of different functional nanomaterials. Despite the impressive results achieved, the booming development of laser-assisted technologies of nanostructured materials synthesis is observed now. It involves diverse laser processes induced at the surface of solid target, on the substrate/solution interface, and in volume of liquid.

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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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