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Laser Ablation in the Synthesis of Novel Nanostructured Materials

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Deadline for manuscript
submissions:

closed (31 May 2019)

Message from the Guest Editor

Dear Colleagues,

Currently, laser ablation in liquids is a very actively-used physical approach for the preparation of advanced nanomaterials, demonstrating advantages over conventional approaches, such as ease of use; control over composition, defects and morphology of the product; low precursor consumption and thus low impact on environment; and so on. For the last two decades, it has proved to be a universal and efficient technique to generate, fragment, modify and conjugate in situ diverse nanostructures based on metals, alloys, semiconductor, ceramics, carbon-based, hybrid, and organic materials. More recently, such unique laser-generated nanomaterials have been tested for various applications in photonics and optoelectronics, catalysis, sensing, pharmacy and biomedicine, and other fields.

Therefore, this Special Issue welcomes contributions from all researchers working on nanostructures prepared (or modified) by laser beams in liquid phase, as well as on their characterization, properties, and applications.

Prof. Sergei A. Kulinich
Guest Editor



mdpi.com/si/12202

Special Issue



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Message from the Editor-in-Chief

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