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Laser Synthesis of Nanomaterials for Energy Conversion

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Message from the Guest Editors

This Special Issue of *Nanomaterials* on the topic of “Laser Synthesis of Nanomaterials for Energy Conversion” will cover the recent advancements, insights into synthesis design, and applications of laser-based methods in synthesizing nanomaterials for energy conversion processes.

Topics of interest include, but are not limited to, the following:

- Laser synthesis of metal, metal oxide, and carbon-based nanomaterials;
- Design and optimization of laser synthesis parameters for enhanced nanomaterial properties;
- In-depth understanding of mechanisms and dynamics of laser synthesis processes;
- Novel applications of laser-synthesized nanomaterials in batteries, solar cells, thermoelectric devices, photocatalysis, electrocatalysis, and other energy-conversion-related processes;
- Integration of laser-synthesized nanomaterials in energy conversion devices.



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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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