Special Issue

Advancement in Ultrafast Laser Fabrication and Nanoengineering of Materials

Message from the Guest Editor

This Special Issue aims to showcase the latest developments and applications in ultrafast laser–matter interaction and advanced nanomaterial processing. To that end, we invite original research papers and comprehensive reviews that connect fundamental mechanisms with practical implementations. Topics of interest include ultrafast laser surface processing, laser-induced periodic surface structuring (LIPSS), laser-based surface functionalization, material property modification, direct laser writing, laser-induced forward transfer (LIFT), and pulsed laser deposition (PLD). Particular attention will be given to studies on light trapping, integrated photonic devices, novel structured surfaces, emerging laser–matter interaction phenomena, and modeling or simulations.

Guest Editor

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Deadline for manuscript submissions

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

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