

Special Issue

Laser Ablation Process and Mechanism of Advanced Materials Processing

Message from the Guest Editor

This Special Issue focuses on the advanced laser processing of materials, using new non-standard approaches in the choice of media and laser exposure modes.

The topics of interest include, but are not limited to:

New approaches to the laser ablation of materials in non-standard media (supercritical fluids, solid-state dielectrics, etc.);

Formation of composite nanomaterials under laser exposure;

Study of the mechanisms of formation of structures of various scales on the surface of materials during laser ablation in various media;

Time-resolved studies of laser ablation processes in non-standard media;

Carrying out the processes of the ablation of various materials using new laser sources, including the far-IR range.

This Special Issue aims to publish papers discussing recent trends in laser ablation processes, primarily using non-standard combinations of materials and laser treatment methods, as well as those identifying new mechanisms of laser action on materials.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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