

Special Issue

Laser Micro/Nano-Fabrication Technology in Material Processing

Message from the Guest Editor

[Laser micro/nano-fabrication techniques](#) are crucial for advancing fields like materials science, electronics, and biotechnology due to their ability to create intricate structures with high precision. These methods, including Laser Direct Writing (LDW), Two-Photon Polymerization (TPP), and Laser Ablation, have gained significant traction in recent years, enabling the development of advanced devices such as sensors and biomedical implants. However, challenges remain. Material limitations restrict the range of processes, while thermal effects can compromise structural integrity. Additionally, scaling these techniques for industrial applications poses logistical hurdles, and integrating laser-fabricated components within existing manufacturing workflows remains complex. Further research is essential to address these issues, optimize processes, and unlock the full potential of laser micro/nano-fabrication techniques across various industries.

Guest Editor

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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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