Special Issue

Advanced Laser Microfabrication

Message from the Guest Editor

The purpose of this Special Issue is to highlight the latest trends and achievements in the field of laser microfabrication. Relying on the broad range of laser micromachining techniques such as drilling, cutting, and using lasers of widely different pulse lengths and energy, the processing of surfaces can include modification methods such as LIPS (laser-induced periodic structures), on micro- and nanoscales as well as utilize laser-generated structures such as nanorods or nanoparticles. The field also includes techniques such as three-dimensional additive microfabrication, in which structure can be built up through successive laser sintering of a nonrigid constituent material. Finally, laser joining can be used to create linkages between materials commonly not bondable such as glass and metal, and microscale electrical contacts can be introduced to create functionality. You are invited to submit your manuscript for this Special Issue in the form of full papers, communications, and reviews. Keywords

- laser drilling
- laser cutting
- laser joining
- laser-induced periodic structures
- additive microfabrication

Guest Editor

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Deadline for manuscript submissions

closed (20 November 2022)

Materials

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Impact Factor 3.2
CiteScore 6.4
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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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