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Advances in Laser Processing

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Message from the Guest Editors

Lasers are routinely used as tools with exceptional capabilities in many applications of materials processing. The development of new laser sources and processes is continuously expanding the use and performance of laser materials processing.

This Special Issue welcomes novel contributions reporting advances in applications of laser materials processing. The processes included in the scope of this Special Issue range from the most conventional applications such as laser cutting, welding, marking, cladding, annealing, or surface treatment, to the most recent ones, such as additive manufacturing, the synthesis of nanomaterials, micro- and nano-manufacturing, and other new processes. Of great interest are works that support new insights into fundamental mechanisms using experimental, theoretical, or computational methods or combinations of these approaches. Contributions should concern any materials processing application where lasers are an essential tool; contributions dealing with laser processing of metals, ceramics, and biomaterials are especially welcome.

Keywords

- laser materials processing
- laser synthesis
- laser manufacturing

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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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