Special Issue

Laser Materials Processing and Hybrid Approaches

Message from the Guest Editor

This Special Issue addresses the broad spectrum of laser materials processing along the process chain, taking into account:

- process observations and fundamental research;
- simulation and modeling in LMP;
- novelties in system technology and hybrid approaches;
- new material solutions, ranging from single to multimaterial processing;
- aspects of commercialization and industrial case studies, as well as
- solutions for digitalization.

We would like to invite you to submit a manuscript for this special issue on LMP. Full papers as well as letters are highly welcome! Keywords

- Process phenomena in laser materials processing
- Laser beam interaction with matter
- Additive manufacturing, e.g., laser metal deposition, laser powder bed fusion/selective laser melting
- Hybrid manufacturing, in combination with conventional manufacturing routes
- Macro- and microtechnology
- Joining
- Laser ablation and cutting
- Digitalization in laser materials processing
- Theoretical aspects and modeling
- Future perspectives of laser materials processing

Guest Editor

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Deadline for manuscript submissions

closed (31 May 2020)

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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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