Special Issue

Laser Processing of Advanced Materials

Message from the Guest Editor

Owing to the new development of advanced materials, the potential application of laser processes is now seeing continuous growth. Accordingly, extensive research for the laser processing of advanced materials is highly recommended for the relevant application of advanced materials. This Special Issue focuses on the laser processing of advanced materials, the characterization of their properties, and the finding of underlying physics related to the process. The topics of interest include but are not limited to:

- Laser processing of advanced materials (i.e., composites, multifunctional materials, and various metal, polymer, ceramic, electrical, energy, and biological materials which have applications in high-tech industries such as aerospace, automobile, semiconductor/display or biomedical industries);
- Characterization of laser-processed materials (mechanical, thermophysical, chemical, electrical or optical properties, etc.);
- New material processing technology based on laser;
- Interaction mechanism between laser and advanced materials;
- Threshold power or energy density for material modification;
- Numerical simulation of laser processes.

Guest Editor

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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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