Special Issue

Advances in Laser Processing of Materials

Message from the Guest Editor

As a new set of material processing tools, Lasers have been attracting intense research interest in terms of their potential for additive, subtractive, and formative manufacturing systems. Researchers across various disciplines are achieving rapid progress in areas such as ultrafast or precise laser machining, advanced laser 3D printing methods, the physics underlying novel laser shock processing, emerging laser induction of 2D materials and the hybrids, new laser sources, cutting-edge laser annealing, and welding approaches and applications. Furthermore, artificial intelligence is becoming highly integrated with advanced manufacturing. This Special Issue aims, therefore, at connecting multidisciplinary academic scholars including physicists, chemists, optical/mechanical/materials engineers, and data scientists, as well as industry stakeholders and government officials, for the advancement and application of laser processing of materials. Modeling, experimental, numerical, and design works are all welcome submissions.

Guest Editor

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Deadline for manuscript submissions

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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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