

Special Issue

Laser Processing and Multi-Energy Field Manufacturing of High-Performance Materials

Message from the Guest Editors

The laser is a major invention of the 20th century, along with atomic energy, the computer and semiconductors. Laser processing technology is non-contact, which is suitable for the processing and manufacturing of various materials without cutting forces. At the same time, composite processing technology is also gradually developing. The composite manufacturing of multiple energy fields can benefit from the advantages of various single energies.

This Special Issue will summarize recent advances in the fields of laser processing and multi-energy field composite manufacturing. Articles published in this Special Issue will cover a variety of topics including, but not limited to, laser processing, special processing technology, high speed cutting, digital manufacturing, beam modulation, multi-energy field manufacturing, hybrid machining, five-axis machining, and surface quality. This Special Issue aims to showcase the latest achievements in the fields of laser processing and multi-energy field composite manufacturing, solicit the most important discoveries, highlight the challenges of processing mechanisms, theories and technologies, and provide an outlook on future directions.

Guest Editors

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About the Journal

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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