

Special Issue

Laser Technologies for Advanced Manufacturing and Materials Engineering

Message from the Guest Editors

This Special Issue focuses on recent advances in laser-based techniques for manufacturing and material modification, aiming to highlight innovative uses of lasers that enhance manufacturing efficiency, improve material properties, and enable new functionalities. Both fundamental research and practical applications are welcome, especially those emphasizing the growing role of laser technologies in sustainable and advanced manufacturing. We welcome contributions on laser additive manufacturing, welding and brazing, micromachining, and surface modification techniques. Research focusing on process optimization, material responses to laser treatment, simulation, modeling, and in situ monitoring is also encouraged. Studies covering metals, polymers, ceramics, and composites are all within the scope of this Special Issue. We look forward to receiving your contributions.

Guest Editors

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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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