Special Issue

Advances in Laser Processing of Materials: Modeling & Simulation, Imaging & Measurement, Techniques & Applications

Message from the Guest Editors

With the continuous miniaturization and high-degree integration of micro/nano-devices, the need to precisely manufacture a given geometric design becomes crucially important. Owing to the merit of contactless processing of materials with focused laser fluence, diverse micro/nano-structures are manufactured flexibly. Thereby, the laser processing of materials burgeons promising opportunities to fulfill the goal of consistency between design and product. Therefore, the object of this special issue is to provide a state-of-the-art collection of recent work focusing on laser processing of materials. The scope of this special issue covers: (1) Modeling and simulation of laser material interaction (2)Real-time imaging and measurement of laser processing scenarios (3) Technic to optimize the laser manufacturing process We sincerely hope this special issue would shed light upon further advances in laser processing of materials. Contributions of research and review papers from both the academic and industrial fields would be greatly appreciated!

Guest Editors

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Dr. Xingsheng Wang

Dr. Zhehe Yao

Dr. Sergey Sobolev

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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