

Special Issue

Laser Technology for Materials Processing

Message from the Guest Editor

Since its discovery (~1950), the laser has been widely applied in industry, also being the topic of numerous research projects and over 500 k scientific publications in the last 5 years. This research has been increasing over the years, due to the laser's ability to change the properties of a wide range of materials. This technology presents the advantage of the control of laser parameters such as energy, duration and shape/geometry, resulting in the almost total control of the process to locally change the material structure at the surface or even in bulk, an advantage for existing technologies. It is well known that the interaction of a laser beam with materials can result in many industrial applications. A large scientific community of chemists, physicists and materials scientists are seeking ways of improving laser applications for new materials and devices. In this Special Issue, we will collect the newest advances in laser research, including new processing techniques, material designs, characterization, etc. From this Special Issue, readers will obtain up-to-date information on the recent progress in laser technology for materials processing.

Guest Editor

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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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