Special Issue

Laser Ablation in the Synthesis of Novel Nanostructured Materials

Message from the Guest Editor

Currently, laser ablation in liquids is a very actively-used physical approach for the preparation of advanced nanomaterials, demonstrating advantages over conventional approaches, such as ease of use; control over composition, defects and morphology of the product; low precursor consumption and thus low impact on environment; and so on. For the last two decades, it has proved to be a universal and efficient technique to generate, fragment, modify and conjugate in situ diverse nanostructures based on metals, alloys, semiconductor, ceramics, carbon-based, hybrid, and organic materials. More recently, such unique laser-generated nanomaterials have been tested for various applications in photonics and optoelectronics, catalysis, sensing, pharmacy and biomedicine, and other fields. Therefore, this Special Issue welcomes contributions from all researchers working on nanostructures prepared (or modified) by laser beams in liquid phase, as well as on their characterization, properties, and applications.

Guest Editor

Prof. Dr. Sergei A. Kulinich

Research Institute of Science and Technology, Tokai University, Hiratsuka, Kanagawa 259-1292, Japan

Deadline for manuscript submissions

closed (31 May 2019)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/12202

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

mdpi.com/journal/materials

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/journal/materials

MDPI

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.

Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (Condensed Matter Physics)