

Special Issue

Trends and Prospects in Laser Nanofabrication

Message from the Guest Editors

To date, laser-derived technology, including laser melting, laser fragmentation, laser ablation, pulse laser deposition, etc., has been deemed as one outstanding and unique strategy for fabricating functional nanostructures and preparing advanced nanomaterials. In comparison to general chemical methods, advanced nanomaterials produced via laser fabrication present unique advantages, including rapid processing, controllability, having few chemical reagents, being applicable on a large scale, and being limitless in materials or media. Submission potential topics include, but are not limited to, the following: Pulse laser deposition in A vacuum or gas atmosphere; Laser fabrication (ablation, fragmentation, melting) in liquids; Laser processing of metals, carbon materials, polymers, ceramics, etc.; Interaction process of lasers and matters (solid/liquid/gas); Applications in energy storage and conversion, catalysis, biomedical, bionics, etc.; Generation mechanisms of nanomaterials or nanostructures See more information in: <https://www.mdpi.com/si/205616>

Guest Editors

Prof. Dr. Mingdi Wang

School of Mechanical and Electrical Engineering, Soochow University, Suzhou, 215000, China

Dr. Shengbin Zhao

School of Mechanical and Electrical Engineering, Soochow University, Suzhou, 215000, China

Deadline for manuscript submissions

31 July 2025



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed



[mdpi.com/si/205616](https://www.mdpi.com/si/205616)

Nanomaterials
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

[mdpi.com/journal/
nanomaterials](https://www.mdpi.com/journal/nanomaterials)





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 8.5
Indexed in PubMed



[mdpi.com/journal/
nanomaterials](https://mdpi.com/journal/nanomaterials)



About the Journal

Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

Prof. Dr. Shirley Chiang
Department of Physics, University of California Davis, One Shields
Avenue, Davis, CA 95616-5270, USA

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, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Chemistry, Multidisciplinary) / CiteScore - Q1
(General Chemical Engineering)