

Special Issue

State-of-the-Art Nanophotonics Materials and Devices in Italy

Message from the Guest Editor

Nanophotonics is an incredibly quickly growing branch of research with roots in fundamental physics and spreading nowadays to numerous and diverse fields of interest: from telecommunication engineering to biology, from solar cells to cancer cure.

In Italy, several research groups work in nanophotonics, searching for the smallest detector and light source, studying fundamental quantum effects, developing advanced microscopic techniques, investigating quantum fluids and polariton dynamics, fabricating integrated photonic devices, and gaining the advantage of plasmonic effects in drug delivery and biomedicine.

The format of welcomed articles includes full papers, communications, and reviews. Potential topics include, but are not limited to:

- Plasmonics: fundamentals of light-matter interaction at nanoscale
- Advanced microscopy and spectroscopy
- Single photon detectors and sources
- Graphene photonics
- Integrated and on chip photonic devices
- Advanced techniques and research in biomedicine
- Plasmon polaritons and polaritonic devices
- Bose–Einstein condensation

Guest Editor

Dr. Neda Ghofraniha

Istituto Dei Sistemi Complessi-Consiglio Nazionale delle Ricerche,
Rome, Italy

Deadline for manuscript submissions

closed (28 February 2022)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/69849

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

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





Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
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. Eugenia Valsami-Jones

School of Geography, Earth and Environmental Science, University of
Birmingham, Birmingham B15 2TT, UK

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 (Physics, Applied) / CiteScore - Q1 (General
Chemical Engineering)