

Special Issue

Nanostructured Materials for Photonics and Plasmonics

Message from the Guest Editors

Light-matter interactions at the nanoscale can lead to a plethora of optical effects, thus paving the way for a wide range of applications, from harvesting and new light sources to imaging and sensing. On the other hand, the fabrication of nanostructures that can meet the demand for a suitable light-matter coupling, such as precise shape, size, and geometry, both ordered and disordered, is a research field in constant expansion. Moreover, metallic nanomaterials and their plasmonic properties are known to promote an increase of light-matter interactions. These occurrences have a large impact in enhanced spectroscopies, dramatically increasing their sensitivity, with important outcomes in the diagnostic and medical fields. This Special Issue of *Nanomaterials* concentrates on a wide range of topics, including advances in the preparation and characterization of photonics and plasmonics materials and their use in modern devices based on light-matter coupling at the nanoscale. Therefore, it is a great pleasure for us to invite you to contribute to this Special Issue.

Guest Editors

Dr. Barbara Fazio

Dr. Cristiano D'Andrea

Dr. Paolo Matteini

Deadline for manuscript submissions

closed (15 November 2021)



Nanomaterials

an Open Access Journal
by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/37683

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)