



Plasmonic Nanostructures and Related Applications

Guest Editor:

Prof. Nathalie Destouches

University of Lyon, UJM,
Laboratoire Hubert Curien UMR
CNRS 5516, Saint-Etienne, France

Deadline for manuscript
submissions:

closed (30 June 2019)

Message from the Guest Editor

Dear Colleagues,

Localized surface plasmon resonance endows plasmonic nanostructures with powerful properties, which have led to the development of more and more applications in the last decade. Charge and energy transfers and high field enhancements make plasmonic nanostructures very interesting objects to transfer light energy to their surrounding environment. We invite authors to contribute original research articles or comprehensive review articles covering the most recent progress and new developments in the modeling and utilization of plasmonic nanostructures for highly efficient, novel devices relevant to all kinds of applications. Potential topics include, but are not limited to:

1. Modeling of light interaction with plasmonic nanostructures
2. Plasmon-assisted processes: charge transfer, energy transfer, hot electrons, spectroscopy
3. Fabrication technologies of plasmonic nanomaterials/coating
4. Plasmonic nanostructures in solar energy conversion
5. Color and optical properties
6. Plasmonic nanostructures for catalytic and sensing applications
7. Biomedical applications of plasmonics
8. Active plasmonic devices





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

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.

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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q1 (*Physics, Applied*) / CiteScore - Q1 (*General Chemical Engineering*)

Contact Us

Nanomaterials Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
[X@nano_mdpi](https://twitter.com/nano_mdpi)