



an Open Access Journal by MDPI

Noble Metal-Based Nanostructures: Optical Properties and Applications

Guest Editors:

Prof. Dr. Carlos Lodeiro

Inorganic Chemistry and
NanoChemistry, NOVA School Of
Science And Technology, FCT
NOVA, NOVA University Lisbon,
2829-516 Caparica, Portugal

Dr. Adrián Fernández Lodeiro

Department of Electrical and
Computer Engineering,
Nanotechnology Imaging and
Detection Laboratory University
of Cyprus, Nicosia, Cyprus

Dr. Javier Fernandez Lodeiro

LAQV-REQUIMTE—Chemistry
Department, NOVA School of
Science and Technology, NOVA
University Lisbon, Caparica,
Portugal

Message from the Guest Editors

Noble metal-based nanostructures delve into the fascinating realm of nanotechnology, specifically focusing on gold, silver, palladium, platinum, ruthenium, rhodium, and iridium. These noble metals exhibit unique optical properties at the nanoscale, making them pivotal in various applications.

In summary, this Special Issue underscores the significance of noble metal-based nanostructures in leveraging their optical properties for a spectrum of applications. The comprehensive exploration of gold, silver, palladium, platinum, rhodium, and iridium nanostructures provides insights into their diverse roles, paving the way for advancements in fields ranging from medicine to sustainable energy. We would like to invite specialists in the field to submit both original research papers as well as review articles on basic aspects of and future directions in this fantastic field.

Deadline for manuscript
submissions:

10 August 2024



mdpi.com/si/194645

Special Issue



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://x.com/nano_mdpi)