nanomaterials

IMPACT FACTOR 5.3

Indexed in: PubMed

CITESCORE 7.4

an Open Access Journal by MDPI

Optical Spectroscopic Techniques in Nanomaterial Science: Raman, Infrared, Photoluminescence

Guest Editor:

Dr. Victor Genchev Ivanov
Faculty of Physics, Sofia University, 5 James Bourchier Boulevard, 1164 Sofia, Bulgaria

Deadline for manuscript submissions:
closed (15 January 2022)

Message from the Guest Editor

Optical spectroscopic techniques are indispensable tools in modern nanomaterial science, as the light–matter interactions provide a wealth of complementary information over the traditional diffraction and electron microscopy techniques. Quantum confinement effects substantially modify the electronic structure and the optical excitation spectrum in nanoscopic volumes of materials.

The aim of this Special Issue of *Nanomaterials* is to cover recent advances in optical spectroscopic techniques – photoluminescence, Raman and infrared, in the most general scope of modern nanoscience. Papers describing the development of new nanomaterial characterization protocols, as well as more fundamental research giving insight into the structural, electronic, and optical properties of nanomaterials, are welcome.

nanomaterials

IMPACT FACTOR 5.3 | Indexed in: PubMed | CITESCORE 7.4

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