nanomaterials

IMPACT FACTOR 4.3

Indexed in: PubMed

CITESCORE 9.2

an Open Access Journal by MDPI

Total Scattering Based Characterization Techniques for Nanostructures

Guest Editors:

Dr. Antonietta Guagliardi
Consiglio Nazionale delle Ricerche, Istituto di Cristallografia, via Valleggio 11, 22100 Como, Italy

Dr. Federica Bertolotti
Dipartimento di Scienza e Alta Tecnologia, Università dell'Insubria, via Valleggio 11, 22100 Como, Italy

Deadline for manuscript submissions:
closed (31 December 2022)

Message from the Guest Editors

This special issue welcomes, but not limits to, contributions that focus on the different scattering techniques and investigate technologically appealing nanostructures in terms of their crystal structure and atomic-scale defectiveness, local short-range vs long-range order, lattice strain and compositional inhomogeneity/gradients in core-shell and core-crown systems; determination of nanocrystals/nanoparticle size, shape, surface and faceting; investigation of supramolecular order, 3D/2D self-assembled superlattices and thin films nanostructures.

This special issue is open to research papers and review articles covering the latest trends related to nanostructures characterization through scattering techniques, and wants to provide the readers with a clear overview of the recent advances in scattering methodologies.

nanomaterials

IMPACT FACTOR 4.3 | Indexed in: PubMed | CITESCORE 9.2

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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 - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

Contact Us

Nanomaterials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/nanomaterials
nanomaterials@mdpi.com
𝕏@nano_mdpi