Special Issue

Total Scattering Based Characterization Techniques for Nanostructures

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 longrange 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.

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Deadline for manuscript submissions

closed (31 December 2022)



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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 nanometerscale 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

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