Special Issue

Spectroscopy and Microscopy Study of Nanomaterials

Message from the Guest Editors

This Special Issue aims to present a cutting-edge collection of research studies highlighting recent advances in the study of nanomaterials through microscopy and spectroscopy techniques. We invite submissions and welcome original research papers and review articles that show current progress in these fields, explore new methodologies, unveil novel nanostructures, and provide deep insights into (new) materials, with a focus on advancing our understanding through microscopy and spectroscopy. Potential topics include, but are not limited to, Van der Waals layered materials, nanoparticles, nanotubes, nanowires, nanofilms, and quantum dots. The investigation of these materials may involve scanning probe microscopies (such as scanning tunneling microscopy, atomic force microscopy, and related techniques), electron microscopies (including scanning electron microscopy and transmission electron microscopy), and spectroscopies (such as Raman, infrared, UV-Vis, and X-ray spectroscopies, and second harmonic generation). In this Special Issue, we aim to advance the current understanding of nanomaterials and inspire new ideas for future applications and technologies.

Guest Editors

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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 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.

Editor-in-Chief

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