

Special Issue

Raman Spectroscopic Techniques in Nanomaterials Science

Message from the Guest Editor

Raman spectroscopy is a non-destructive and non-invasive characterization method that measures vibrational modes in materials. Due to its ease of use and the wealth of information obtained, it has become one of the most popular characterization methods in nanomaterials science. With advances in instrumentation capabilities, researchers are pushing the boundaries on Raman spectroscopic techniques. This Special Issue is aimed at highlighting some of these advances, and we invite authors to present original research and review articles on the current state-of-the-art in Raman spectroscopic measurements on nanomaterials. Potential topics include, but are not limited to:

- Low-frequency Raman spectroscopy;
- Surface-enhanced Raman spectroscopy (SERS);
- Tip-enhanced Raman spectroscopy (TERS);
- Measurement of defects/disorder in nanomaterials;
- In situ and operando Raman spectroscopy;
- Raman spectroscopy under pressure, different temperatures, and electric and magnetic fields.

Guest Editor

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Deadline for manuscript submissions

closed (30 June 2023)



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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.

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