Special Issue

Application of SERS for Nanomaterials

Message from the Guest Editors

Since its discovery over forty-five years ago, SERS has blossomed into an exciting field of study that spans major fields of science, including analytical and physical chemistry, solid-state physics and optics, biosciences, medical diagnostics, and sensor engineering. In this Special Issue, we welcome new developments in SERS. One of the most important areas of research involves the development of novel substrates, such as arrays of metallic nanoparticles (NP), semiconductor quantum dots, composite core-shell NP substrates, soft systems such as organic semiconductors and J-aggregates, fabricated hot-spots in nanometer-sized gaps, electrochemical etched SERS substrates, and wire substrates for tip-enhanced Raman scattering (TERS). Finally, papers dealing with the nature of chemical systems on SERS substrates, such as surface geometry, the identification of molecules of topical interest, such as drugs and biomolecules, and the study of chemical reactions on surfaces are welcome. Articles dealing with future trends and challenges involving either experimental or theoretical methods would be especially appreciated.

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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