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SERS Active Plasmonic Nanostructures

Guest Editor:

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Message from the Guest Editor

Surface-enhanced Raman spectroscopy (SERS) results from molecules adsorbed onto a specially designed metallic surface (usually Ag, Au, and their alloys) and is currently a dynamically developing method widely applied in biomedical and analytical studies. Despite the large number of applied techniques and huge development of nanotechnology, fabrication of SERS-active nanostructures that will satisfy the high sensitivity, reproducibility, and stability of the recorded SERS signals is still a big challenge.

This Special Issue on SERS Active Plasmonic Nanostructures is dedicated to the discussion of the latest research in the developments and characterization of the SERS-active plasmonic nanostructures for a wide range of applications, especially in trace analysis, e.g., to determine water pollution, in forensics, medicine or for biomedical and analytical studies. Special attention will be given to the understanding and monitoring of the plasmonic features of various nanostructured materials.

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Editor-in-Chief

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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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