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Research on Vibrational Dynamics in Nanoscale Plasmonic Cavities

Guest Editor:

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Message from the Guest Editor

One of the most impressive recent advances is the engineering of "plasmonic nanocavities" that predictably and reliably confine the electromagnetic energy into deep sub-wavelength mode volumes, and that feature well-defined resonances. In a sense, they are the plasmonic, nanoscale counterparts of conventional dielectric cavities used to trap light and enhance the light-matter interaction.

Nanocavities offer a new playground to study plasmon-enhanced Raman scattering. This Special Issue endeavors to provide a snapshot of the state of the art in experimental and theoretical "Research on Vibrational Dynamics in Nanoscale Plasmonic Cavities".

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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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