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## **Nanostructures for Tip and Surface Enhanced Vibrational Spectroscopy (TERS, SERS, SEIRA, SECARS)**

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Deadline for manuscript submissions:

**closed (10 May 2024)**

### **Message from the Guest Editors**

In the past few decades, the tools for performing molecular analysis using infrared (IR) and Raman spectroscopy have improved so much that it has become possible to detect target single molecules and visualize them in complex biological objects. One of the decisive roles in achieving such amazing results has been played by the combination of nanomaterials that facilitate enhancing IR absorption and Raman scattering, spectrometers, confocal, and probe microscopes. This has led to the development of unique precision techniques such as TERS, SERS, SEIRA, SECARS, which now have tangible prospects to be widely implemented for accurate and reproducible non-contact measurements. This Special Issue aims to publish new research and state-of-the-art applications in all types of nanomaterials for TERS, SERS, SEIRA, and SECARS, including but not limited to the design, simulation, and engineering of metallic, dielectric, and hybrid nanostructures to improve molecular analysis performances. It is my pleasure to encourage both theoretical and empirical work in this ever-expanding and exciting field of science and technology.



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# Special Issue



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## Message from the Editor-in-Chief

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