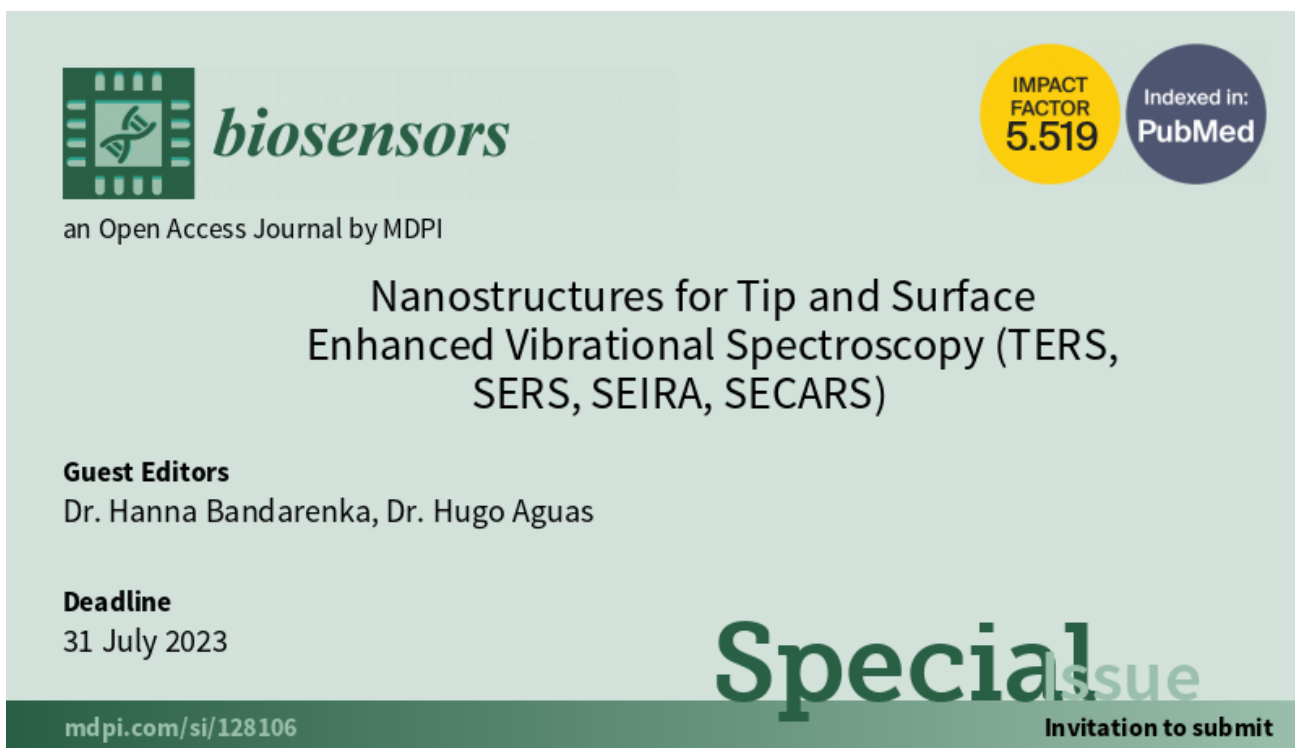



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Nanostructures for Tip and Surface Enhanced Vibrational Spectroscopy (TERS, SERS, SEIRA, SECARS)

Guest Editors
Dr. Hanna Bandarenka, Dr. Hugo Aguas

Deadline
31 July 2023

Special Issue
Invitation to submit

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Спецвыпуск называется «Nanostructures for Tip and Surface Enhanced Vibrational Spectroscopy (TERS, SERS, SEIRA, SECARS)» и посвящен публикации новых исследований и новейших методов использования во всех типах наноматериалов для TERS, SERS, SEIRA и SECARS, металлических, диэлектрических и гибридных наноструктур для улучшения точности молекулярного анализа (включая, но не ограничиваясь разработкой, симуляцией и проектированием).

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

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31 July 2023

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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Message from the Editor-in-Chief

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