Special Issue

Materials Investigation Through Vibrational Spectroscopy/Microscopy

Message from the Guest Editor

Vibrational spectroscopy instrumentation represents a versatile and convenient method for material characterization, with cost-effective and user-friendly solutions. Variants of Raman and infrared techniques have simplified or completely removed the need for sample preparation, making them available to a wide variety of end-users ranging from academics to industry professionals. This Special Issue focuses on highlighting the suitability or sometimes indispensability of vibrational spectroscopy to reveal the structure and function of materials over different length scales down to the nanometer scale. We invite contributions, preferably employing a combination of such techniques, that elucidate the structure and function of a material, possibly complemented by techniques based on different operating principles. The focus is on materials' structure and function, regardless of whether or not they achieve their originally designed functionality. Contributions should evaluate their results with respect to the different length scales to which the techniques used are sensitive.

Guest Editor

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Deadline for manuscript submissions

closed (1 October 2025)

Molecules

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Impact Factor 4.6
CiteScore 8.6
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mdpi.com/si/221525

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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