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Raman Spectroscopy of Crystalline Materials and Nanostructures

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Message from the Guest Editors

Dear Colleagues,

RS studies of crystalline materials and nanostructures are often non-destructive, and allow the investigation in a broad set of conditions, from vacuum to high pressures, cryogenic and high temperatures and under the influence magnetic and electric fields. Additionally, the prediction and theoretical interpretation of the Raman activity of crystalline materials is now much more effective, particularly with the development of computational techniques that are able to predict solid-state properties (e.g., the fully periodic DFT methods). Moreover, the effect of reducing the dimensionality and/or the crystal size, as well as the role of structural and chemical defects, can be investigated by means of Raman experiments and interpreted with the help of theoretical modelling.

This Special Issue on “Raman spectroscopy of crystalline materials and nanostructures” is therefore dedicated to both theoretical and experimental novel research where Raman spectroscopy is applied to investigate crystalline materials and nanostructures.



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Special Issue



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Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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