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Interactions of Crystalline Materials in the Light of LDI-MS Efficiency

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Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Laser desorption ionization (LDI-MS) techniques allow for rapid, sensitive analysis of biomolecules such as proteins and peptides, as well as low molecular weight compounds requiring low sample volume. Great endeavors have been undertaken to propose organic matrices and inorganic materials with enhanced LDI-MS efficiency. Therefore, we would like to attract attention to advances in the studies for characterization of crystalline materials, their interactions with analytes, and subsequent applications in matrix-assisted and nano-assisted laser desorption/ionization. We encourage submissions reporting novel matrices for SALDI/NALDI/SELDI/MALDI techniques and their characterization using analytical techniques such as XRD, surface-enhanced Raman spectroscopy (SERS), UV–Vis-NIR, DLS, microscopic techniques (SEM, TEM, AFM), etc. as well as advanced techniques for the characterization of plasmonic and optical properties of materials. Furthermore, we welcome original research articles, communications, and review papers on applications of new matrices in LDI-MS techniques for applications in various areas of research.

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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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