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Xene Materials and Biomedical Applications of Nanostructures

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Message from the Guest Editors

Xene materials are two-dimensional materials that emerged recently with great popularity. Xene materials also address new discoveries in fundamental science. The quantum mechanical approach in Xene materials and 3D nanostructures has made them unique from classical concepts, natural phenomena and applications. The thermal stability and electrical properties of these materials make them capable of producing 2D and 3D superconductors. The response of these materials to light and their light–matter interactions are exploited in order to use them in optoelectronic and photonic devices. The transformation of technological scales from mega to nano is all based on Xene and 3D nanostructured materials. One of the most important areas of their applications is the biomedical and healthcare industry. Xenes and 3D nanostructured materials have been regarded as promising agents for biosensors, bioimaging, therapeutic delivery, and theranostics, as well as in other new bio-applications. Due to the high demands of the new methods, techniques and devices in diagnostic and therapeutic applications, Xene and 3D nanostructured materials are continuously receiving attention from researchers.

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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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