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Nanomaterials for Potential Applications

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Deadline for manuscript
submissions:

closed (20 April 2024)

Message from the Guest Editors

Nanotechnology and new nanomaterials have an enormous impact on modern science, technology, and everyday life. The term “nanomaterial” refers to a single material with multiple applications in different fields. Novel/modified synthetic approaches (physical, chemical, and biological) can be used for the synthesis of these materials, including inorganic, organic, and hybrid nanocomposites, to achieve a precise control over their physico-chemical properties. To date, nanoscale technologies are actively studied and applied to solve the most pressing global challenges, from human health to environmental problems. Nanomaterials and nanostructures have various applications in biomedicine, bioanalysis and biondiagnostic, forensic, agriculture, environmental protection, water treatment, food industries, textile industries, sensors, electronics, and communication.

In this context, the aim of this Special Issue is to publish original research papers and comprehensive reviews which deal with the most important issues concerning the synthesis, investigation of the advanced properties, and potential applications of different nanomaterials.



mdpi.com/si/157308

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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