

Special Issue

Nanotech Horizons: Innovating Water Remediation through Nanomaterial Applications

Message from the Guest Editor

This Special Issue entitled "Nanotech Horizons: Innovating Water Remediation through Nanomaterial Applications" showcases modern research on the use of nanomaterials for sustainable water treatment methods. We welcome submissions that cover a wide range of crystalline materials, including semiconductors, magnetic systems, and photonic crystals. Contributions may focus on various crystal growth techniques, such as conventional methods and epitaxial growth, as well as advanced characterization techniques like Raman, X-ray diffraction, and electron microscopy.

Topics of interest include but are not limited to the following:

Synthesis and characterization of nanomaterials for water remediation;

Application of nanocrystals in photocatalysis and advanced oxidation processes;

Nanomaterial-based filtration and membrane technologies for water purification;

Nanocomposite materials for pollutant removal from water;

Fundamental research into the underlying mechanisms;

Nanomaterial-mediated water treatment processes.

Guest Editor

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About the Journal

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.

Editor-in-Chief

Prof. Dr. Alessandra Toncelli

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