

Special Issue

Emerging Nanostructured Powders: Synthesis and Applications

Message from the Guest Editors

We cordially invite the submission of high-quality original research articles and comprehensive reviews to the Special Issue "Emerging Nanostructured Powders: Synthesis and Applications". Topics of interest include, but are not limited to, the following:

- **Advanced Synthesis Strategies:** Novel bottom-up and top-down approaches, including sol-gel, spray pyrolysis, hydrothermal/solvothermal methods, chemical vapor condensation, and mechanochemical synthesis.
- **Emerging Material Systems:** Research on MXenes, HEAs, MOFs, COFs, and complex multi-component or composite powders.
- **Precision Engineering of Nanostructures:** Design and fabrication of hollow, porous, core-shell, and other hierarchically structured powders.
- **Characterization and Properties:** Advanced microscopy, spectroscopy, and in situ studies linking nanostructure to functional properties.
- **Broad Spectrum of Applications:** Focused contributions on energy storage and conversion (batteries, supercapacitors, and fuel cells), catalysis (electro-, photo-, and thermal catalysis), environmental remediation, antimicrobial protection, additive manufacturing (3D printing), biomedicine, and aerospace.

Guest Editors

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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 crystal, where science merges with beauty and innovation.

Editor-in-Chief

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