Special Issue

Preparation, Characterization and Application of Zinc Oxide–Based Nanostructures

Message from the Guest Editors

This Special Issue of Crystals aims to bring together a selected collection of reports highlighting the many synthetic routes towards application-specific nanostructures of ZnO and ZnO-based materials (AZO, ZTO, ZnMgO, ZnCoO, hybrid materials etc.). We would like to showcase ZnO and related materials as a group that lends itself to both bottom-up and top-down approaches to nanostructure design and fabrication. In particular, we wish to encourage submissions relating to the many morphological species, such as nanoflowers, nanorods, nanotrees, etc., as well as those utilizing thin film or epitaxial growth techniques with microelectronic-grade processing to tailor the resulting properties of the structures. Studies relating to nucleation and growth mechanisms and device-oriented works are welcome. We anticipate that the future readers of this Special Issue will be presented with a cross-section of works on ZnO nanostructures inspiring them in their future research.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2019)

Crystals

an Open Access Journal by MDPI

Impact Factor 2.4
CiteScore 5.0

mdpi.com/si/25645

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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

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