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Novel ZnO-Based Nanostructures: Synthesis, Characterization and Applications

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Message from the Guest Editors

ZnO is a multifunctional material possessing unique electrical, optical, acoustic, and mechanical properties. Nanostructured ZnO is one of the most fascinating nanomaterials because of its outstanding properties, including its wide direct bandgap, high electron mobility, piezoelectricity, chemical and thermal stability, and biocompatibility. With easy and low-cost growth techniques, ZnO nanomaterials present a wide variety of geometrical shapes, such as nanoparticles, nanorods, nanowires, nanobelts, nanosprings, nanocombs, etc. Many promising applications have been developed around the ZnO nanostructures, such as transparent electronics, smart windows, piezoelectric devices, UV-lasers, UV photodetectors, gas sensors, chemical sensors, optofluidic devices, biosensors, etc.

It is our pleasure to invite you to submit original research papers, as well as review papers, within the scope of this 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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