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# Novel ZnO-Based Nanostructures: Synthesis, Characterization and Applications

Guest Editors:

#### Prof. Dr. Yamin Leprince-Wang

ESYCOM Laboratory, Université Gustave Eiffel (UGE), 77420 Champs sur Marne, France

#### Prof. Dr. Guangyin Jing

School of Physics, Northwest University, Xi'an 710127, China

#### Dr. Basma El Zein

Governance and Sustainability Center, University of Business and Technology, Jeddah 21451, Saudi Arabia

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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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**Prof. Dr. Alessandra Toncelli** Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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*Crystals* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/crystals crystals@mdpi.com X@Crystals\_MDPI