

Special Issue

Nanowires and Quantum Dots for IoT Applications

Message from the Guest Editors

This Special Issue of *Crystals* focuses on recent advances in elaborations, characterizations, modelling, simulations, and integrations of nanowires and quantum dots for IoT applications.

Nanowires and quantum dots are emerging as building blocks for the bottom-up assembly of nano-devices and functional systems, holding promise for a variety of application fields. The continuous progress in the improvement of nanowires and quantum dots properties as well as the development of novel nanostructures has paved the way to significant achievements in electronic and optoelectronic device performance.

We intend to cover the main fundamental and technological achievements related to the preparation methods and techniques, as well as the optical, electrical, and structural properties of materials and devices based on nanowires and quantum dots. Numerical modelling of the fundamental properties of the nanowires and quantum dots as well as the modelling and simulation of nanoelectronic and optoelectronic devices based on these nanostructures are particularly welcome.

Guest Editors

Dr. Bassem Salem

Laboratoire des Technologies de la Microélectronique, 38054
Grenoble, France

Dr. Bouraoui Ilahi

Department of Physics and Astronomy, College of Sciences, King Saud
University, Riyadh, Saudi Arabia

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Crystals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
crystals@mdpi.com

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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

Department of Physics, University of Pisa, 56126 Pisa, PI, Italy

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