

Special Issue

Quantum Dots: Properties and Applications

Message from the Guest Editor

Quantum dots (QDs) are unique material structures in which the carriers are three-dimensionally confined and the intrinsic properties are altered by quantum confinement effects, which are exploited by controlling their size. The QDs research field has been a hot topic in fundamental studies for several decades and has found applications in various fields, including displays, illuminations, renewable energy devices, photodiodes, photoresists, image sensors, biomedical applications, and so on. With the mass production of QDs and further understanding of their photophysical and photochemical properties, many industries have been involved in the development of quantum-dot device techniques and will open a market in this field.

This Special Issue aims to provide recent, informative, QD-related resources for readers by addressing a broad range of topics, from QD materials chemistry and characterization to processing and device fabrication.

Guest Editor

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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.

Editor-in-Chief

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