

Special Issue

TiO₂ and Its Nanocomposites

Message from the Guest Editors

TiO₂ is a non-toxic, low-cost, and chemically stable material that has remarkable catalytic and distinctive semiconducting properties. TiO₂ crystals exist in three main crystal structures: anatase, rutile and brookite, and many other minor phases, including monoclinic TiO₂-B, columbite TiO₂, and ramsdellite TiO₂-R. In the last few decades, TiO₂ and its nanocomposite materials have been attracting tremendous interest in a wide range of research and application areas, including photocatalysis, sensors, and environmental and energy applications. We invite researchers to contribute to the Special Issue on TiO₂ and its nanocomposite materials, which is intended to serve as a unique multidisciplinary platform covering broad aspects of science, technology and the application of TiO₂ and its nanocomposite materials. The potential topics include, but are not limited to:

- Synthesis and preparation of TiO₂ nanomaterials;
- Properties of TiO₂ nanomaterials;
- TiO₂-based composite materials;
- TiO₂-enhanced coatings;
- Black TiO₂ nanomaterials;
- TiO₂-based photocatalysis;
- TiO₂-based sensors;
- Environmental and energy storage applications;
- Other applications of TiO₂ nanomaterials.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2021)



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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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