crystals

an Open Access Journal by MDPI

IMPACT FACTOR 2.7

CITESCORE 3.6

Recent Advances in Silica-Based Nanomaterials for Energy and Environmental Applications

Guest Editor:

Prof. Dr. Sungwook Chung
School of Chemical and Biomolecular Engineering, Pusan National University, 2 Busandaehak-ro 63beon-gil, Geumjung-gu, Busan 46241, Republic of Korea

Deadline for manuscript submissions:
closed (30 November 2022)

Message from the Guest Editor

Silica and silica-based composite nanomaterials are an important class of functional materials that have been widely employed. Exploiting nature's principles of silica biomimicry via advanced characterization techniques has led to unprecedented insights into the mechanisms and capabilities in the design and development of novel synthetic methods. Predictive capabilities provided by new approaches to modeling have, in turn, served as a guide for improving synthesis. These insights afforded by the experimental and modeling efforts have led to the realization of these materials for energy storage and harvesting, optoelectronics, sensing, functional membrane, catalytic, biomedical, environmental, and biotechnological applications.

This Special Issue will address recent advances in this field and cover the wide range of research into silica and silica-based composite nanomaterials, from the fundamentals to potential applications.

We are looking forward to your valuable contribution!

Discount: 200 CHF (If you need more, please contact Aries.gan@mdpi.com)

crystals

an Open Access Journal by MDPI

IMPACT FACTOR 2.7

CITESCORE 3.6

Editor-in-Chief

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

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Crystallography*) / CiteScore - Q2 (*Condensed Matter Physics*)

Contact Us

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