Special Issue

Photocatalysis and Targeted Sorbent Activity of Advanced Polymer-Based Composites

Message from the Guest Editors

The aim of the current Special issue is dedicated to the use of newly emerging polymeric (nano)composites with different incorporated sorbent- and photocatalysis-active inorganic fillers. This Special Issue will also include research on hybrid polymeric materials, metal/covalent organic networks (MOF's, COF's), and polymer-imprinted sorbents with high surface area in the form of micronized powders, nano/hollow fibers, or anisotropic membranes with sorption/removal and photocatalytic degradation properties towards different environmental pollutants such as organic dyes, heavy metals, oil, and environmental/health toxic compounds removal, etc. Additionally, it will study methods for the preparation of different polymer–inorganic composites in various forms—powders, films, fibers possessing high photocatalytic and/or sorption ability—the effect of structure, phase composition, morphology and the other characteristics of synthesized polymer–inorganic composites on their photocatalytic and/or sorption properties; the role of the synergistic effect between polymers and inorganic compounds in composites.

Guest Editors

Dr. Hristo Penchev

Dr. Katerina L. Zaharieva

Prof. Dr. Nabeen K Shrestha

Deadline for manuscript submissions

closed (20 April 2025)

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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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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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