Special Issue

Recent Advances in Photocatalysts Materials

Message from the Guest Editors

Recent advances in photocatalyst materials represent a rapidly evolving field that brings together physicists, materials scientists and chemists from around the world. In focus are materials that use light to drive chemical reactions, with significant emphasis on enhancing their efficiency and expanding their applications. While traditional semiconductor photocatalysts, such as TiO_2, have dominated the field for decades, novel materials and strategies are pushing the boundaries of performance. Recent progress in photocatalyst design is marked by both incremental but innovative modifications to existing materials and entirely new approaches. Among the cutting-edge developments are hybrid photocatalysts, including those based on metal-organic frameworks (MOFs) and perovskites, which offer unprecedented versatility and tunability. Additionally, nanostructuring and surface engineering have allowed researchers to manipulate light absorption and reaction kinetics in ways not previously possible.

Guest Editors

Dr. Kristina Mojsilovic

Faculty of Physics, University of Belgrade, Studentski trg 12-16, 11000 Belgrade, Serbia

Prof. Dr. Stevan Stojadinović

Faculty of Physics, University of Belgrade, Studentski trg 12-16, 11000 Belgrade, Serbia

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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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