

Special Issue

Innovations in Organic Framework Materials: Expanding the Horizons of COFs, MOFs, and HOFs for Advanced Applications

Message from the Guest Editor

Covalent Organic Frameworks (COFs), Metal–Organic Frameworks (MOFs), and Hydrogen-Bonded Organic Frameworks (HOFs) are revolutionizing materials science with their modular design, high porosity, and multifunctionality. COFs rely on covalent bonds, MOFs combine metal nodes with organic linkers, and HOFs utilize hydrogen bonds, enabling diverse applications such as catalysis, membranes, gas storage, energy storage, and sensing.

This Special Issue, *Innovations in Organic Framework Materials: Expanding the Horizons of COFs, MOFs, and HOFs for Advanced Applications*, showcases breakthroughs in the synthesis and engineering of COFs, MOFs, and HOFs, as well as theoretical studies aiming to bridge knowledge gaps and inspire interdisciplinary solutions. By consolidating recent innovations and addressing persistent challenges, it seeks to advance these frameworks from research to impactful real-world applications, transforming fields like energy, healthcare, the environment and sustainability. All submissions to this Special Issue should focus on the research at molecular level.

Guest Editor

Dr. Bhausaheb Dhokale

Department of Chemistry, University of Wyoming, 1000 E. University Avenue, Laramie, WY 82071, USA

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
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