## **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**

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## Deadline for manuscript submissions

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### Message from the Editor-in-Chief

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