

## Special Issue

# Synthesis and Applications of Porous Materials as Catalysts and Adsorbents

### Message from the Guest Editors

The editorial board of *Molecules* (IF: 4.2, ISSN 1420-3049) invites you to submit an article or review to a Special Issue entitled "Synthesis and Applications of Porous Materials as Catalysts and Adsorbents". Porous materials, including metal oxides and carbon-based systems, are revolutionizing catalysis and adsorption technologies by offering tunable pore architectures and surface functionalities tailored for specific chemical challenges. This Special Issue focuses on advancing the design and application of porous metal oxides and carbon materials in transformative processes such as CO<sub>2</sub> conversion, photocatalytic water splitting, and thermal catalytic biomass upgrading. Of particular interest are studies that bridge synthesis innovation with environmental and energy applications, such as adsorbents for heavy metal removal, photocatalysts for pollutant degradation, and carbon materials enabling efficient CO<sub>2</sub> capture and electrocatalytic reduction.

### Guest Editors

Dr. Xiaohai Zheng

College of Environmental and Resource Sciences, College of Carbon Neutral Modern Industry, Fujian Key Laboratory of Pollution Control & Resource Reuse, Fujian Normal University, Fuzhou 350117, China

Dr. Mengmeng Wu

State Key Laboratory of Clean and Efficient Coal Utilization, Taiyuan University of Technology, Taiyuan 030024, China

### Deadline for manuscript submissions

28 February 2026



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*Molecules*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[molecules@mdpi.com](mailto:molecules@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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### Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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