

## Special Issue

# Metal–Organic Frameworks for Separation, Catalysis and Energy Applications

### Message from the Guest Editors

MOFs offer advantages as heterogeneous catalysts due to their improved reactivity, flexibility, and facile tunability. When contrasting them with conventional inorganic porous materials, metal–organic frameworks (MOFs) exhibit a multifunctional nature, a highly porous structure, a consistent spatial distribution of constituents, adjustable pore sizes and topologies, and a hybrid organic–inorganic composition. Papers on the preparation and use of catalytically active MOFs are welcome in this Special Issue. We ask for the submission of original research papers and reviews on the advances in the use of MOF-based materials for gaseous fuel storage, chemical hydrogen storage, solar and electrochemical energy storage, and conversion, in which challenges and opportunities related to advanced energy technologies are critically discussed. Further manuscripts on the use of MOFs for the separation of gaseous molecules are also welcome.

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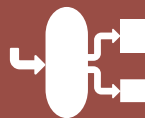
### Guest Editors

Prof. Dr. Christos Argirusis  
Dr. Pavlos K. Pandis  
Dr. Georgia Sourkouni

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### Deadline for manuscript submissions

closed (31 August 2025)



## Processes

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### Editor-in-Chief

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