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# **Enhancing Separation Performance of Mixed Matrix Membranes**

Guest Editor:

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# **Message from the Guest Editor**

This Special Issue of Membranes aims to provide an overview of the latest challenges in the MMM embedding of novel functional porous materials such as zeolites, graphene derivatives, MOF, COF, etc.. It could be possible to control membranes' surface chemistry and textural properties to improve their separation ability while maintaining a good polymer integration. This issue covers the latest advances in MMM technology in academia, aiming at their large-scale industrial implementation. Some of the topics discussed include strategies to improve filler-polymer compatibility, dense flat-sheet or supported hollow fiber membrane configurations with special inputs in the preparation of thin-film composites, and the separation of mixtures under realistic industrial conditions (feed composition, pressure, temperature, Applications are focused on pre- and post-combustion CO<sub>2</sub> capture but are not limited to other gas- (hydrogen purification, the separation of volatile organic compounds, hydrocarbon separations, etc.) or liquid-phase separations (pervaporation, organic solvent nanofiltration, etc.). Both original research articles and reviews are welcome.













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## **Message from the Editor-in-Chief**

You are cordially invited to contribute a research article or a comprehensive review for consideration and publication in *Membranes* (ISSN 2077-0375).

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