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State-of-the-Art Membrane Technologies in Chemical Engineering

Guest Editors:

Prof. Dr. Fausto Gallucci
Inorganic Membranes and Membrane Reactors, Sustainable Process Engineering, Department of Chemical Engineering and Chemistry, Eindhoven University of Technology, 5612 AZ Eindhoven, The Netherlands

Dr. Rouzbeh Ramezani
Inorganic Membranes and Membrane Reactors, Sustainable Process Engineering, Department of Chemical Engineering and Chemistry, Eindhoven University of Technology, 5612 AZ Eindhoven, The Netherlands

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Message from the Guest Editors

Membranes and membrane operations are becoming a mainstay in the chemical industry. Novel membrane materials allow separations at a reduced OPEX and CAPEX compared to more conventional separations. While membrane separation is market-leading technology in water desalination, it has several advantages in other fields such as gas separation, gas/liquid contacting, solvent recovery, liquid separations, and integrated reactors.

In this Special Issue, we aim to collect the latest developments in membrane materials and operations applied to chemical engineering. Research regarding both material synthesis, membrane testing, and module and process design are welcome in the Special Issue. Topics include but not are limited to CCU, gas separation, membrane reactors, liquid separations, solvent recovery, etc.

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Editor-in-Chief

Prof. Dr. Mario J. Muñoz Batista
Department of Chemical Engineering, Faculty of Sciences, University of Granada, Avda. Fuentenueva, s/n, 18071 Granada, Spain

Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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Contact Us

ChemEngineering Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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