

Special Issue

Process Intensification for Chemical Engineering and Processing

Message from the Guest Editors

Although more than 20 years have passed since our colleagues Stankiewicz and Moulijn defined process intensification in all its variations, much research work is still taking place in this field. On the level of unit operations and their combinations or on the process level, the methods have found wide applications in the process industry, but a thorough and theoretical understanding that would enable us to predict critical effects is still lacking. At the same time, intensified processes are becoming increasingly important.

Efficient processes are the indispensable prerequisite for coping with the challenges of the future. They help to make the chemical industry more sustainable in terms of resource consumption and pollutant emissions.

Simultaneously, they allow the chemical industry, especially in high-wage countries, to maintain its competitiveness. As we see the great potential of bringing research and applications together in order to optimize existing processes or to improve process development strategies, we would be grateful if you would consider publishing in this Special Issue of *ChemEngineering*.

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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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