Special Issue

Optimization of Operations and Processes in Chemical Engineering Involving Fluidization

Message from the Guest Editor

The special issue is meant to contribute to our scientific knowledge in regards to technologies for which the main chemical/physical aspect is **Fluidization**. This phenomenon is central to many processes; just to mention some of them, we have: Fluidized Bed Combustion, Flue Gas Desulfurization, Biogas Production, Mineral Sorting, Catalytic Fluidized Beds, Particles' coating, Metallurgy. More generally and always centered on the topic of Fluidization, the issue would include Multi-Phase Systems (not only gas-liquid-solid), Mixing and Resuspension, Nano Fluids, CFD, Computer Aided Process Engineering, Chemical Kinetics and Catalysis. In addition to more theoretical Mass Transport aspects like intramolecular forces, surface tension, electrical interactions and biotechnological processes. Emphasis will be given to contributions showing tangible evidence of added value in regards to the most recent literature. The issue welcomes investigations done by means of highly accurate instrumentations like, for instance, Electrical Resistance Tomography, Radioactive Particle Tracking, Laser Diffraction and related.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

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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