

Special Issue

Methods and Models of Mixing in Chemical Reactors

Message from the Guest Editors

Mixing is the cornerstone of the chemical industry, particularly regarding process intensification. In addition to the energy cost for mixing operation, a more important penalty arises from downstream separations that are diminished from the better design of mixers. One of the main targets of the chemical industry is the better design of reactors, aiming for the overall improvement of energy efficiency. Computational fluid dynamics (CFD) and advanced experimental fluid dynamics (EFD) techniques based on laser and digital imaging have enabled great advances in chemical reactor technology. In addition to the large number of mixers based on stirrers, the last decades have brought mixers with oscillating streams as well as meso- and microscaled static mixers. The purpose of this Special Issue is to disseminate research on mixing in chemical reactors, covering new configurations in classical reactors in addition to novel reactors. Literature reviews and fundamental studies on new methods in the field of mixing simulation and quantification techniques are also welcome. For more information, please access the website at:
https://www.mdpi.com/journal/mps/special_issues/MM_MCR

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

Editor-in-Chief

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