

Special Issue

Simulation and Measurement of Flows in Chemical Process Engineering—Trends, Insights and Applications

Message from the Guest Editors

Both simulation and measurement technology have shown great developments and progress on their own, but in combination, especially, there are many synergies and connecting points. These topics will be explored in this Special Issue. With this field, multiple aspects of modern engineering and sustainable chemical processes are addressed. Innovative flow simulations and up-to-date flow measurement technologies deliver chemical process optimization, improvements in mixing, savings of large amounts of thermal and electrical energy, minimization of resource and educt consumption as well as undesirable secondary products and therefore environmental impact, CO₂ footprint, maximization of selectivities and yields, process safety, as well as economic efficiency and competitiveness of chemical products. This is precisely why the topics of this Special Issue are so important in regard to widespread chemical, mixing, and process engineering operations. This contribution shall present new trends and insights in the application of flow simulations and flow measurement technology in chemical process engineering.

Guest Editors

Prof. Dr. Heyko Jürgen Schultz

Faculty of Chemistry-Chemical Engineering, University of Applied Sciences Niederrhein, 47798 Krefeld, Germany

Prof. Dr. Maurizio Barbato

Innovative Technologies Department, SUPSI, East Campus, Via la Santa 1, CH-6962 Lugano, Switzerland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
processes@mdpi.com

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P.
Giuria 9, 10125 Turin, Italy

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