

Special Issue

10th Anniversary of *Processes*: Feature Papers in Chemical Processes and Systems

Message from the Guest Editor

The existing chemical industry is facing a fast disruptive transformation. Feedstock that is well-known, steady, and defined (oil, natural gas resources, etc.) is being complemented by unconventional types, such as biomass, CO₂, and hydrogen, which also call for the transformation of operation (size, dynamics, etc.). Complex chemical systems are increasingly integrating multiscaled digital twins, spanning from atoms to plants, which also represent a game-changer for, e.g., catalyst material discovery, real time optimization, etc. A critical timely understanding of these interlinked phenomena is thus direly needed, especially from experts, spanning across traditional recognized disciplines, changing the paradigms in engineering. This Special Issue on “Feature Review Papers in the “Chemical Systems” Section” aims to collect all the review articles on chemical systems. Keywords

- chemical systems
- chemical industry
- oil
- natural gas resources
- biomass, CO₂ and hydrogen
- complex chemical systems
- multiscaled digital twins
- catalyst material discovery
- real-time optimization

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Message from the Editor-in-Chief

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