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Process Intensification in Chemical Reaction Engineering

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Deadline for manuscript submissions:
closed (15 November 2021)

Message from the Guest Editors

The development of Process Intensification requires the deep understanding of several aspects which comprise CRE, spreading from reactor modelling/design to the investigation of microfluidics, treating with rigour the physical and chemical phoenomena occurring in the reaction network. This Special Issue on "Process Intensification in Chemical Reaction Engineering" aims to illustrate novel trends in CRE to demonstrate that with the right approach, it is possible to aim the PI of a chemical process.

- microreactors and micromixers
- static mixers
- alternative sources of energy: microwave and ultrasound
- two unit operations in one apparatus: reactive chromatopraphy/reactive distillation
- alternative fluids: supercritical fluids, ionic liquids, SILCA
- structured catalysts; foams, monoliths, 3D-printed structures

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Message from the Editor-in-Chief

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