

Special Issue

Advances in the Chemical Mixing Process

Message from the Guest Editors

Studies clarifying the mixing process itself are welcome, as a better understanding of the physics behind this process enables proper modification of the procedures and choice of the optimal strategy in a given case. Single-phase blending of liquids with component properties that are close to each other is taken into account as a basic case; however, combination of substances with different physical properties could be of great practical interest, including multiphase cases. Practical cases could differ in physical properties of the mixing medium. Detailed knowledge on the physics of the mixing process will be a good starting point for the design of new mixing optimization and control strategies. The topics could include, but are not limited to, the following:

- Macro- and micromixing interactions;
- The role of turbulence in mixing process (physical mechanisms);
- Mixing intensification strategies (time, space, and energy aspects);
- Interactions of the mixing process with other processes (heat transfer, chemical process); and
- Mixing process modeling, simulation, and control applications.

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