Special Issue

Micromachines for Chemical Process Intensification

Message from the Guest Editor

A sustainable society needs green, efficient, and precise chemical syntheses. To this end, a common and effective strategy is process intensification at various scales. In recent, micromachines as tools for process monitoring, regulation, and intensification have been drawing more and more attentions by scientists and engineers due to the concerns in recognition vision, manipulation capacity, and environmental footprint. For example, flow synthesis based on microtube opens new reaction windows to resolve challenges in low atoms and energy utilization and large intermediate materials hold-up. Accordingly, this special issue seeks to showcase research papers and review articles that focus on all kinds of micromachines towards chemical synthesis intensification. They could be fixed equipment like micromixer, microreactor, and micro-separator, or variable element like microdroplet, microbubbles and micelles, as long they have functions or potentials in the improvement of chemical synthesis. Besides, the angle of view could be a chemical process, a micromachine, or an integrated system.

Guest Editor

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