Special Issue

Microdevices for Chemical Processes and Analytical Procedures

Message from the Guest Editor

The confluence of technologies such as microfabrication, microfluidics and electronics as tools in microprocess engineering and flow chemistry that follow the principles of green chemistry and process intensification can enable the miniaturization of chemical processes and analytical procedures. This Special Issue pursues research papers, communications and review articles with a focus on (1) novel device design strategies, fabrication techniques and materials (silicon, LTCC and polymers), integration and scale-up strategies and micromachines (reactors, mixers and separators); (2) chemical process miniaturization applications (reactors, particle formation and single and double emulsification); (3) analytical procedure miniaturization applications (lab-on-a-chip microsystems); (4) the integration of electronics and sensors in microdevices; and (5) experimental or CFD numerical studies of microfluidic devices and transport phenomena in microdevices.

Guest Editor

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Editor-in-Chief

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