Special Issue

Green Chemistry: Synthesis Process in Micro Reactors

Message from the Guest Editor

Microreactors have proven indispensable to many fields of research ranging from catalysis to cellular biology and shown great potentials in intensifying reaction processes in comparison to conventional reactors. The heat transfer enhancement avoids the presence of temperature hot spots due to the local accumulation of reaction heat in the microreactor. The modular, flexible, and compact microreactor design allows an easy upscaling from the laboratory to the industrial scale aiming at mass production, and from microreactor design to microreactor process design, a field that requires corresponding engineering skills. This technology, already having shown a broad variety of facets concerning different applications, has now reached the field of downstream processing to influence industrial pilot and even production processing. This Special Issue focuses on the original scientific papers describing new devices, methodologies and application, e.g., biotechnologies, to face the challenge in design, fabrication, process-specific standardization, and scalability up to the industrial level of microreactors.

Guest Editor

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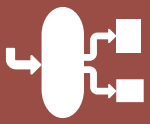

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