Special Issue

Innovation Research in Micro Scale Flows and Combustion

Message from the Guest Editors

In recent years, microscale flows and combustion have aroused growing interest in both academic research and industrial communities, and its complex and unstable nature calls for further explorations aiming to discover new techniques and technological solutions to enhance the heat/mass transfer and combustion processes in such microfluidic devices. In this regard, the numerical and experimental methodologies for the characterization of these flows are constantly evolving. Specific topics of interest for this Special Issue include, but are not limited to:

Heat and mass transfer in microscale flows; Multiphase flows and phase change in microscale flows; Fundamentals of microscale combustion; Experimental methods for the characterization of microscale flows and microcombustion; Numerical methods and simulations for microscale flows and microcombustion; Microfabrication technologies and additive manufacturing; Micromixers, microreactors, microturbines, and microcombustors; Micro-propulsion systems and microengines; Micro heat transfer systems: microchannel systems, micro-evaporators, micro heat sinks, micro heat exchangers, and microcoolers.

Guest Editors

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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