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Flow, Heat and Mass Transport in Microdevices

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Message from the Guest Editors

Dear Colleagues,

Microfluidic devices are currently applied in multiple fields. Applications include lab-on-chips, microreactors, heat sinks, inkjet printing, microrheometers, and organs-on-chips. Microdevices are portable, minimize reactant consumption and waste production, and can be used in flexible on-demand production of small batches.

Microdevices have a high surface-to-volume ratio, which enables efficient heat and mass transport. However, the design of these devices still needs to account for heat and mass transport limitations, and solutions to optimize transport phenomena need to be developed.

In this Special Issue on "Flow, heat and mass transport in microdevices", we welcome review articles and original research papers, fundamental or applied, theoretical, numerical, or experimental, on microscale transport phenomena.

Dr. João Mário Miranda Dr. Rui A. Lima Dr. José Daniel Araújo Guest Editors











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Message from the Editor-in-Chief

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