

TRANSPORT PHENOMENA IN MICRO/NANOFLUIDS

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MINISYMPOSIUM

This minisymposium covers any computational modeling of transport phenomena in micro/nanofluids. Numerical modeling and fundamental understanding of these phenomena are crucial for improving performance of technologies in areas such as biology, medicine, geology, and energy storage, to name a few. The topics of interest include, but are not limited to, fluidic, ionic, and particulate transport at micro/nanoscale and numerical methods for simulating flows and soft matters at small scales. Recent advances in modeling capabilities such as molecular dynamics, mesoscopic methods (dissipative particle dynamics, lattice Boltzmann method), and continuum simulations, combined with data-driven approaches, has led to considerable growth in predicting and understanding transport phenomena in micro/nanofluids. This minisymposium serves as a forum for discussing recent advancement, exchanging ideas, and exploring collaborations for future developments in this field. Contributions from students and young researchers working in this field are also welcome.