Special Issue

Non-Equilibrium Thermodynamics in Multiphase Flows

Message from the Guest Editor

This Special Issue of *Fluids* is dedicated to the applications of non-equilibrium thermodynamics to multi-phase flows including flows of emulsions (two-phase liquid/liquid systems), suspensions (solid particles/liquid systems), foams (gas bubbles/liquid systems), and other complex fluids. Experimental and theoretical studies dealing with the applications of classical irreversible thermodynamics (CIT) and extended irreversible thermodynamics (EIT) to flow and rheology of multi-phasic systems are welcome. Entropy production and energy destruction in multi-phase flows with simultaneous heat and or mass transport, with and without chemical reactions, are also welcome. The applications of non-equilibrium thermodynamics in the design and optimization of multi-phase flow processes would be considered as well.

Guest Editor

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