

Special Issue

Thermodynamic Optimization of Heat Devices, Stability and Control

Message from the Guest Editor

The optimal design and operation of heat devices, irrespective of their macroscopic, mesoscopic, or microscopic nature, is associated with the estimation and control of specific parameters that lead to desirable high performance, usually settled by a compromise between fast production and reduced loss. The universality of this trade-off has been a focus of research during the last few years and, as a result, the role of stability and the entropy production in the election of the figure of merit has been revealed as an emergent issue. Consequently, the influence of control on the parameters and the device layout, the role of fluctuations in the energetic output records, and the stability of optimal operation regimes have become issues of special interest for the optimal design of heat devices, especially when control involves an energetic cost.

Guest Editor

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