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Thermodynamics of Small Systems

Guest Editor:

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Deadline for manuscript
submissions:

closed (16 April 2024)

Message from the Guest Editor

This Special Issue aims to offer articles covering a wide range of problems pertaining to the physics of small systems whose properties necessitate the use or the development of suitable thermodynamic approaches. It is anticipated that contributions will contain theoretical developments, but submission of manuscripts reporting basic experimental results pertinent to the Special Issue, as well as those discussing relevant emerging small-systems technologies, are particularly welcome.

- thermometry and calorimetry of small systems, including nuclear matter
- stochastic thermodynamics: MEMS, molecular motors, colloids, biomolecules
- open quantum systems
- fluctuation theorems
- quantum thermodynamics
- dissipation in small systems
- information processing in small systems
- complexity of small systems



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Special Issue



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Editor-in-Chief

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Message from the Editor-in-Chief

The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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