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200 Years Anniversary of "Sadi Carnot, Réflexions Sur La Puissance Motrice Du Feu"; Bachelier: Paris, France, 1824

Guest Editors:

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Dr. Mathieu Arnoux

Deadline for manuscript submissions:
closed (31 March 2025)

Message from the Guest Editors

The 1824 book by Sadi Carnot was no less than the cradle of thermodynamics. It has influenced different disciplines, including physics, chemistry, biology, geology, engineering and materials science. Thermodynamics provides the framework for a generalized dynamics covering all kind of energy conversion in the living and non-living world, including metabolic pathways, chemical reactions, thermoelectricity and Hamiltonian mechanics. In harmonized appearance, all balance equations for extensive quantities (e.g. mass, momentum, angular momentum, entropy, electric charge, chemical substance, energy) follow the same format and reflect the uniformity in the basic principles. Thermodynamics covers both equilibrium and non-equilibrium systems. It is compatible with relativistic theory and field theories and, when complemented by statistical concepts, it comprises phenomena that traditionally fall in the domain of quantum mechanics. Thermodynamics is widely viewed as one of the sound standing and far-reaching concepts in science, technology, engineering and mathematics (STEM). Contributions addressing any of these issues are very welcome.

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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
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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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