

## Special Issue

# Frontiers of Thermodynamics: From Quantum to Life

### Message from the Guest Editor

Thermodynamics has one leg in the micro- and another in the macro-realm. This duality underlies both its strength and still unresolved issues. In this special issue we explore these limits of small and large. How are entropy, work and heat manifested at the quantum level? How can living systems attain order, maintain complexity and process information under the Second Law? How is entropy related to quantum uncertainty and nonlocality? What insights can thermodynamics offer and gain from the growing discipline of quantum biology? It is time for an appropriate forum to discuss these frontiers and related others.

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### Guest Editor

Prof. Dr. Avshalom C. Elitzur

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### Deadline for manuscript submissions

closed (30 September 2022)



## Entropy

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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.

*Entropy* is an online open access journal providing an advanced forum for the development and/or application of entropic and information-theoretic studies in a wide variety of applications. *Entropy* is inviting innovative and insightful contributions. Please consider *Entropy* as an exceptional home for your manuscript.

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### Editor-in-Chief

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