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The Concept of Entropy and Its Application in Thermal Engineering

Guest Editor:

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Deadline for manuscript
submissions:

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Message from the Guest Editor

Entropy-based analysis of thermal processes has become popular in recent decades. However, there still exist important issues in the field that need to be addressed, including (i) a lack of correct understanding of second-law related concepts, (ii) incorrect methods of calculating entropy generation in thermal systems, (iii) clueless entropy-related calculations with incorrect or no interpretation of results, (iv) misinterpretation of entropy generation in processes where work is absent, and (v) a lack of differentiation between system level (e.g., a thermal power plant) and component level (e.g., heat exchanger) entropy analyses.

This Special Issue is devoted to clarifying the above issues. Original thinkers, pioneers, and experts are invited to share their critical views and novel work on entropy and the second law, which will serve as a permanent reference on the subject. Manuscripts reporting computed entropy values should discuss and justify how entropy-based results would help improve the performance or design of the systems studied.



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Special Issue



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Message from the Editor-in-Chief

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