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Thermodynamics of Thermoelectric Devices and Applications

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Message from the Guest Editors

Dear Colleagues,

Thermoelectric effects and devices have been analyzed and investigated using classical heat transfer methods and equations of thermoelectricity for several decades. Although extensively explored, commercial thermoelectric devices still have a poor thermal-to-electrical conversion efficiency. Evaluating thermoelectric phenomena using thermodynamic arguments can provide new insights and lead thermoelectric research towards enhancing the figure-of-merit, ZT, and potential for achieving the Carnot efficiency.

In this Special Issue of *Entropy*, we cordially invite you to submit review, perspective, and original papers on thermoelectric effects, devices, and applications, with a particular focus on the thermodynamics of thermoelectricity.

Prof. Roop Mahajan
Dr. Ravi Anant Kishore
Guest Editors



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Special Issue



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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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