



Thermodynamics of Thermoelectric Devices and Applications

Guest Editors:

Prof. Roop L. Mahajan

Virginia Polytechnic Institute and
State University, Department of
Mechanical Engineering,
Blacksburg, USA

mahajanr@vt.edu

Dr. Ravi Anant Kishore

Building Energy Science Group,
National Renewable Energy
Laboratory (NREL), Golden, CO
80401, USA

ravi86@vt.edu

Deadline for manuscript
submissions:

20 March 2020

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





entropy

IMPACT
FACTOR
2.419

an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Kevin H. Knuth

Department of Physics, University
at Albany, 1400 Washington
Avenue, Albany, NY 12222, USA

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High visibility: indexed by the Science Citation Index Expanded (Web of Science), MathSciNet (AMS), Inspec (IET), Scopus and other databases.

Rapid publication: manuscripts are peer-reviewed and a first decision provided to authors approximately 19.9 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2019).

Contact Us

Entropy
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/entropy
entropy@mdpi.com
@Entropy_MDPI