Special Issue

Low-Dimensional Nanomaterials-Based Thermoelectrics and Their Applications

Message from the Guest Editors

Flexible/wearable thermoelectrics for energy harvesting is now one of the most exciting topics. In order to cultivate a new field of applications, various materials with high TE performance based on low-dimensional structures that are inherently flexible should be developed, such as 2D layered compounds, transition metal dichalcogenide (TMDC), graphene, vdW heterostructures, carbon nanotubes (CNT), nanosheets (NS), nanowires (NW), their nanohybrid or nanocomposite with/without organic compounds, etc. Nanohybrid or nanocomposite strategies, i.e. combining different low-dimensional materials, is also efficient for exploring high-performance TE materials suitable for mid-temperature (500 K–700 K) applications. Accordingly, it is timely to present a Special Issue that will collect articles of outstanding research results concerning 'Low-Dimensional Nanomaterial-Based Thermoelectrics and Their Applications' to contribute to the future prosperity of humankind. Leading researchers are cordially invited to submit papers, letters, or reviews to the Special Issue.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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