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Advances in Nanostructured Thermoelectric Materials and Devices

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Message from the Guest Editors

Dear Colleagues,

Thermoelectric technology can realize direct and reversible energy conversion between heat and electricity. Correspondingly, thermoelectric technology possesses various application advantages, such as being emission-free, eco-friendly, vibration-free, noise-free, scalable, maintenance-free, etc. With these advantages and the recent rapid development of thermoelectric materials, thermoelectric technology has demonstrated extensive application potential, including but not limited to localized temperature control, personal thermal management, portable freezing, building air-conditioning, waste heat recovery, space-mission power generation, etc. Regardless of the fast development of thermoelectric technology, various challenges remain unsolved and need to be further addressed, ranging from material engineering, understanding the material–structure relationship, device design and application integration, which have attracted ever-increasing research interest. In this Special Issue, we welcome contributions to our understanding of thermoelectric materials, devices, and their applications.



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Special Issue



Editor-in-Chief

Message from the Editor-in-Chief

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