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Recent Progresses in Thermoelectric Materials

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Message from the Guest Editors

Pursuits in technology development and environmental sustainability have driven research trends in opposite directions until the blossoming of green energies, which satisfy the aims of both. Thermoelectric (TE) materials, which enable the conversion of thermal energy into electricity, are specialized in waste-heat recovery using a thermoelectric generator (TEG), or spot-cooling via a thermoelectric refrigerator. Both applications help ease the burden of the growing energy shortage issue and protect our earth by reducing heat emissions, making the TE technology green and sustainable.

Keywords

- green energy
- thermoelectric materials
- thermoelectric modules
- thermal conductivity
- electrical conductivity

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