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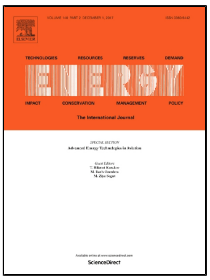

Impedance spectroscopy for assessment of thermoelectric module properties under a practical operating temperature

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Highlights:

- Thermoelectric properties of Bi_2Te_3-based thermoelectric module were investigated
- Key parameters of the module were characterized with temperature up to 150 °C
- Thermal and electrical conductivity increases and decreases with temperature
- Seebeck coefficient increases up to 100 °C, and then tended to be saturated
- *ZT* of the module increases with temperature up to 75 °C, then decreases