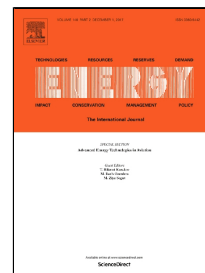


Accepted Manuscript

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

Chung-Yul Yoo, Yeongseon Kim, Juyeon Hwang, Hana Yoon, Byung Jin Cho, Gao Min, Sang Hyun Park



PII: S0360-5442(17)32033-9

DOI: 10.1016/j.energy.2017.12.014

Reference: EGY 11963

To appear in: *Energy*

Received Date: 12 September 2017

Revised Date: 11 November 2017

Accepted Date: 03 December 2017

Please cite this article as: Chung-Yul Yoo, Yeongseon Kim, Juyeon Hwang, Hana Yoon, Byung Jin Cho, Gao Min, Sang Hyun Park, Impedance spectroscopy for assessment of thermoelectric module properties under a practical operating temperature, *Energy* (2017), doi: 10.1016/j.energy.2017.12.014

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights:

- Thermoelectric properties of Bi₂Te₃-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

Download English Version:

<https://daneshyari.com/en/article/8071702>

Download Persian Version:

<https://daneshyari.com/article/8071702>

[Daneshyari.com](https://daneshyari.com)