## Accepted Manuscript

Enhanced thermoelectric performance of reduced graphene oxide incorporated bismuth-antimony-telluride by lattice thermal conductivity reduction

Weon Ho Shin, Kyunghan Ahn, Mahn Jeong, Jeong Seop Yoon, Jae Min Song, Soonil Lee, Won Seon Seo, Young Soo Lim

PII: S0925-8388(17)31821-2

DOI: 10.1016/j.jallcom.2017.05.204

Reference: **JALCOM 41935** 

Journal of Alloys and Compounds To appear in:

Received Date: 7 April 2017 Revised Date: 16 May 2017 Accepted Date: 19 May 2017

Please cite this article as: W.H. Shin, K. Ahn, M. Jeong, J.S. Yoon, J.M. Song, S. Lee, W.S. Seo, Y.S. Lim, Enhanced thermoelectric performance of reduced graphene oxide incorporated bismuth-antimonytelluride by lattice thermal conductivity reduction, Journal of Alloys and Compounds (2017), doi: 10.1016/ j.jallcom.2017.05.204.

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.



ACCEPTED MANUSCRIPT

Enhanced Thermoelectric Performance of Reduced Graphene

**Incorporated Bismuth-Antimony-Telluride by** 

**Thermal Conductivity Reduction** 

Weon Ho Shin<sup>1,#,\*</sup>, Kyunghan Ahn<sup>2,#</sup>, Mahn Jeong<sup>1</sup>, Jeong Seop Yoon<sup>1</sup>, Jae Min Song<sup>1</sup>, Soonil

Lee<sup>1</sup>, Won Seon Seo<sup>1</sup>, and Young Soo Lim<sup>3,\*</sup>

<sup>1</sup>Energy Materials Center, Energy & Environment Division, Korea Institute of Ceramic

Engineering & Technology, 101, Soho-ro, Jinju-si, Gyeongsangnam-do, Republic of Korea

<sup>2</sup>School of Chemical and Biological Engineering and Institute of Chemical Processes, Seoul

National University, Seoul 08826, Republic of Korea

<sup>3</sup>Department of Materials System Engineering, Pukyong National University, Busan, 48513,

Republic of Korea

# Equally contributed to this work

\* Corresponding authors

E-mail: <a href="mailto:yslim@pknu.ac.kr">yslim@pknu.ac.kr</a> & <a href="mailto:whshin@kicet.re.kr">whshin@kicet.re.kr</a>

Keywords: thermoelectric, reduced graphene oxide, bismuth telluride, phonon scattering

1

## Download English Version:

## https://daneshyari.com/en/article/5459459

Download Persian Version:

https://daneshyari.com/article/5459459

<u>Daneshyari.com</u>