### Accepted Manuscript

Converting natural diatomite into nanoporous silicon for ecofriendly thermoelectric energy conversion

Peng-an Zong, Daiki Makino, Wei Pan, Shujia Yin, Chuan Sun, Peng Zhang, Chunlei Wan, Kunihito Koumoto

PII: S0264-1275(18)30427-1

DOI: doi:10.1016/j.matdes.2018.05.042

Reference: JMADE 3942

To appear in: Materials & Design

Received date: 1 March 2018 Revised date: 18 May 2018 Accepted date: 19 May 2018



Please cite this article as: Peng-an Zong, Daiki Makino, Wei Pan, Shujia Yin, Chuan Sun, Peng Zhang, Chunlei Wan, Kunihito Koumoto, Converting natural diatomite into nanoporous silicon for eco-friendly thermoelectric energy conversion. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Jmade(2017), doi:10.1016/j.matdes.2018.05.042

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**

# Converting natural diatomite into nanoporous silicon for eco-friendly thermoelectric energy conversion

Peng-an Zong<sup>1</sup>, Daiki Makino<sup>2</sup>, Wei Pan<sup>1</sup>, Shujia Yin<sup>1</sup>, Chuan Sun<sup>1</sup>, Peng Zhang<sup>1</sup>, Chunlei Wan<sup>1</sup>\*,

Kunihito Koumoto<sup>3,4,5</sup>

- <sup>1</sup> State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing 100084, People's Republic of China
- <sup>2</sup> Graduate School of Engineering, Nagoya University, Nagoya 464-8603, Japan
- <sup>3</sup> Nagoya Industrial Science Research Institute, Nagoya 464-0819, Japan
- <sup>4</sup> Department of Applied Physics, College of Applied Science, Kyung Hee University, Yong-in 17104, Korea
- <sup>5</sup> Centre of Nanotechnology, King Abdulaziz University, Jeddah 21589, Saudi Arabia
- \*Corresponding author: wancl@mail.tsinghua.edu.cn (Chunlei Wan)

#### Download English Version:

## https://daneshyari.com/en/article/7216940

Download Persian Version:

https://daneshyari.com/article/7216940

<u>Daneshyari.com</u>