

## Author's Accepted Manuscript

Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage

Jiuhui Han, Akihiko Hirata, Jing Du, Yoshikazu Ito, Takeshi Fujita, Shinji Kohara, Toshiaki Ina, Mingwei Chen



PII: S2211-2855(18)30292-1  
DOI: <https://doi.org/10.1016/j.nanoen.2018.04.063>  
Reference: NANOEN2693

To appear in: *Nano Energy*

Received date: 22 March 2018  
Revised date: 18 April 2018  
Accepted date: 23 April 2018

Cite this article as: Jiuhui Han, Akihiko Hirata, Jing Du, Yoshikazu Ito, Takeshi Fujita, Shinji Kohara, Toshiaki Ina and Mingwei Chen, Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage, *Nano Energy*, <https://doi.org/10.1016/j.nanoen.2018.04.063>

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 galley proof before it is published in its final citable 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.

**Intercalation pseudocapacitance of amorphous titanium dioxide@nanoporous graphene for high-rate and large-capacity energy storage**

Jiuhui Han<sup>a</sup>, Akihiko Hirata<sup>a,b</sup>, Jing Du<sup>a</sup>, Yoshikazu Ito<sup>a</sup>, Takeshi Fujita<sup>a</sup>, Shinji Kohara<sup>c,d</sup>,  
Toshiaki Ina<sup>e</sup>, Mingwei Chen<sup>a,f,g,\*</sup>

<sup>a</sup>WPI Advanced Institute for Materials Research, Tohoku University, Sendai 980-8577, Japan

<sup>b</sup>Mathematics for Advanced Materials-OIL, Tohoku University, Sendai 980-8577, Japan

<sup>c</sup>Light/Quantum Beam Field Research Center for Advanced Measurement and Characterization, National Institute for Materials Science, Hyogo 679-5148, Japan

<sup>d</sup>Topological Analysis Group, Information Integrated Materials Design Field, Center for Materials Research by Information Integration, National Institute for Materials Science (NIMS), Tsukuba 305-0047, Japan

<sup>e</sup>Research & Utilization Division, Japan Synchrotron Radiation Research Institute, Hyogo 679-5198, Japan

<sup>f</sup>CREST, JST, 4-1-8 Honcho Kawaguchi, Saitama 332-0012, Japan

<sup>g</sup>Department of Materials Science and Engineering, Johns Hopkins University, Baltimore, MD 21214, USA

\*E-mail: mwchen@jhu.edu

Download English Version:

<https://daneshyari.com/en/article/7952530>

Download Persian Version:

<https://daneshyari.com/article/7952530>

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