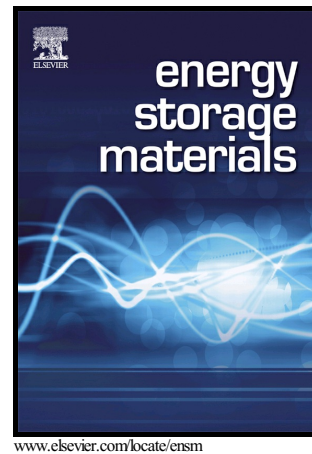


# Author's Accepted Manuscript

Advanced Batteries Based on Manganese Dioxide  
and Its Composites

Yijian Tang, Shasha Zheng, Yuxia Xu, Xiao Xiao,  
Huaiguo Xue, Huan Pang



PII: S2405-8297(17)30586-X  
DOI: <https://doi.org/10.1016/j.ensm.2018.02.010>  
Reference: ENSM314

To appear in: *Energy Storage Materials*

Cite this article as: Yijian Tang, Shasha Zheng, Yuxia Xu, Xiao Xiao, Huaiguo Xue and Huan Pang, Advanced Batteries Based on Manganese Dioxide and Its Composites, *Energy Storage Materials*, <https://doi.org/10.1016/j.ensm.2018.02.010>

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.

**Advanced Batteries Based on Manganese Dioxide and Its Composites**

Yijian Tang, Shasha Zheng, Yuxia Xu, Xiao Xiao, Huaiguo Xue and Huan Pang\*  
School of Chemistry and Chemical Engineering, Institute for Innovative Materials and Energy,  
Yangzhou University, Yangzhou, 225009, Jiangsu, P. R. China  
huanpangchem@hotmail.com  
panghuan@yzu.edu.cn  
<http://huanpangchem.wix.com/advanced-material>

All along, the improvement of the performance of advanced battery plays a key role in the energy research community. Therefore, it is necessary to explore excellent materials for applications in advanced battery. Among a variety of materials applied in battery, manganese dioxide and its composites stand out because of their specific characteristic (polymorphic forms, controllable structure, high porosity, etc.). Thus, manganese dioxide and its composites will be fully introduced in this review about their applications in advanced battery. The discussion of the relationship between their structures and electrochemical properties will be completely summarized. Believe in the future, both the study and the impact of manganese dioxide and its composites will be much more profound and lasting.

Graphical abstract



Keywords: advanced battery, manganese dioxide, composite

Download English Version:

<https://daneshyari.com/en/article/7962562>

Download Persian Version:

<https://daneshyari.com/article/7962562>

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