

# Bangjun (Jason) Guo

Email: bangjun.guo@rutgers.edu  
TEL:18482397557

## EDUCATION

11/2016 --Present

**Visiting Ph. D. student** in Materials Science  
Materials Science & Engineering, Rutgers University  
**Advisor:** Prof. Manish Chhowalla

09/2013 --Present

**Ph. D. student** in Physical Electronics  
Department of Electronic Engineering, East China Normal University  
**Advisor:** Prof. Ke Yu

09/2009 -- 07/2013

**Bachelor of Science** in Applied Physics  
Department of Physics, Shandong University

## PROFILE

- Experimental techniques: Chemical Vapor Deposition (CVD) Method, Hydrothermal Method and Lithium Intercalation Method
- Experience in preparing MoS<sub>2</sub> nanomaterials, especially for few layered MoS<sub>2</sub> and special morphology bulk MoS<sub>2</sub>
- Experience in assembling and testing LIBs and HER

## RESEARCH INTERESTS

- Semiconductor process engineering
- Preparing few layer TMDs materials
- Reliability study for utilizing nanomaterials in clean energy
- Fundamentally electronic device packaging.

## PUBLICATIONS

- Firework-shaped TiO<sub>2</sub> microspheres embedded with few-layer MoS<sub>2</sub> as an anode material for high-performance lithium-ion batteries. **B. J. Guo**, K. Yu, H. Fu, Q. Q. Hua, R. J. Qi, H. L. Li, H. L. Song, S. Guo and Z. Q. Zhu, J. Mater. Chem. A, 2015, 3, 6392.
- Preparation of hollow microsphere@onion-like solid nanosphere MoS<sub>2</sub> coated by carbon shell as stable anode for optimized lithium storage. **B. J. Guo**, K. Yu, H. L.

Song, H. L. Li, Y. H. Tan, H. Fu, C. Li, X. Lei and Z. Q. Zhu, *Nanoscale*, 2016, 8, 420.

- Hollow structured micro/nano MoS<sub>2</sub> spheres for highly electrocatalytic activity hydrogen evolution reaction. **B. J. Guo**, K. Yu, H. L. Li, H. L. Song, Y. Y. Zhang, X. Lei, H. Fu, Y. H. Tan and Z. Q. Zhu, *ACS Appl. Mater. Interfaces*, 2016, 8, 5517.

- Coral-shaped MoS<sub>2</sub> Decorated with Graphene Quantum Dots Performed as a Highly Active Electrocatalyst for Hydrogen Evolution Reaction. **B. J. Guo**, K. Yu, H. L. Li, R. J. Qi, Y. Zhang, H. L. Song, Z. Tang, Z. Q. Zhu and M. W. Chen, *ACS Appl. Mater. Interfaces* (Under Review)

- Multi-slice nanostructured WS<sub>2</sub>@rGO with enhanced Li-ion battery performance and a comprehensive mechanistic investigation. H. L. Li, K. Yu, H. Fu, **B. J. Guo**, X. Lei and Z. Q. Zhu, *Phys. Chem. Chem. Phys.*, 2015, 17, 29824.

- MoS<sub>2</sub>/Graphene hybrid nanoflowers with enhanced electrochemical performances as anode for lithium-ion batteries. H. L. Li, K. Yu, H. Fu, **B. J. Guo**, X. Lei and Z. Q. Zhu, *J. Phys. Chem. C*, 2015, 119 (14), 7959.