





X. W. Lou

The author presented on has published more than 10 articles in Angewandte Chemie in the last 10 years, most recently:

"Highly Concave Platinum Nanoframes with High-Index Facets and Enhanced Electrocatalytic Properties": B. Y. Xia, H. B. Wu, X. Wang, X. W. Lou, *Angew. Chem.* **2013**, *125*, 12563–12566; *Angew. Chem. Int. Ed.* **2013**, *52*, 12337–12340.



The work of X. W. Lou has been featured on the back cover of Angewandte Chemie:

"General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries": G. Zhang, B. Y. Xia, C. Xiao, L. Yu, X. Wang, Y. Xie, X. W. Lou, Angew. Chem. 2013, 125, 8805–8809; Angew. Chem. Int. Ed. 2013, 52, 8643–8647.

## Xiong Wen (David) Lou

**Date of birth**: October 27, 1978

**Position**: Associate Professor, Nanyang Technological University

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**Education**: 2002 BEng, National University of Singapore 2008 PhD with Prof. Lynden A. Archer, Cornell University

Awards: 2012 Young Scientist Award (Singapore National Academy of Science); 2012 Nanyang Award

for Research Excellence; 2013 World Cultural Council (WCC) Special Recognition

**Research**: Nanostructured materials, lithium-ion batteries, supercapacitors, electrocatalysis, photocatalysis

**Hobbies**: Walking, fishing

## In a spare hour, I ... like to watch TV.

My favorite way to spend a holiday is ... to go fishing.

My favorite quote is ... "Be bold, be bold, everywhere be bold, but be not too bold!" (Edmund Spenser).

f I could be any age I would be ... 10 years old.

get advice from ... my wife, although very often I have my own preformed opinions.

advise my students to ... work hard, and do not waste time when you are in the lab.

If I had one year of paid leave I would ... stay in a remote village without phone and internet access.

If I could be a piece of lab equipment, I would be ... a transmission electron microscope.

The principal aspect of my personality is ... perseverance.

The natural talent I would like to be gifted with is ... the ability to sing and dance.

If I could be described as an animal it would be ... a dinosaur.

am waiting for the day when someone will discover ... a new method to store electricity.

The secret of being a successful scientist is ... to work hard and try your best.

Looking back over my career, I ... chose the right advisors and research field.

f I were a car I would be ... a Ferrari.

## My 5 top papers:

- "Template-Free Synthesis of SnO<sub>2</sub> Hollow Nanostructures with High Lithium Storage Capacity": X. W. Lou, Y. Wang, C. Yuan, J. Y. Lee, L. A. Archer, *Adv. Mater.* 2006, 18, 2325–2329. (One of the early works in this area, also my most cited research paper.)
- "Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO<sub>2</sub> Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage": J. S. Chen, Y. L. Tan, C. M. Li, Y. L. Cheah, D. Luan, S. Madhavi, F. Y. C. Boey, L. A. Archer, X. W. Lou, *J. Am. Chem. Soc.* 2010, 132, 6124–6130. (One of the first reported syntheses of uniform hierarchical structures of anatase nanosheets.)
- 3. "Building Hematite Nanostructures via Oriented Attachment": J. S. Chen, T. Zhu, C. M. Li, X. W. Lou,

- Angew. Chem. **2011**, *123*, 676–679; Angew. Chem. Int. Ed. **2011**, *50*, 650–653. (Observation of oriented attachment with nanocrystals larger than 100 nm.)
- "LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> Hollow Structures as High-performance Cathodes for Lithium-Ion Batteries": L. Zhou, D. Y. Zhao, X. W. Lou, *Angew. Chem.* 2012, 124, 243–245; *Angew. Chem. Int. Ed.* 2012, 51, 239–241. (Hierarchical hollow structures of cathode materials can be made despite the high calcination temperature required.)
- "Metal-Organic-Frameworks-Derived General Formation of Hollow Structures with High Complexity":
  L. Zhang, H. B. Wu, X. W. Lou, J. Am. Chem. Soc.
  2013, 135, 10664-10672. (New concepts and materials platform for hollow-structure synthesis.)

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