



D. Wang

Dunwei Wang

Date of birth:	January 17, 1978
Position:	Associate Professor, Boston College
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Education:	2000 BSc, University of Science and Technology of China, Hefei 2005 PhD supervised by Hongjie Dai, Stanford University 2005–2007 Postdoctoral work with James R. Heath, California Institute of Technology
Awards:	2006 IUPAC Prize for Young Chemists; 2011 National Science Foundation CAREER Award; 2012 Sloan Research Fellow
Current research interests:	Materials chemistry; solar water splitting; carbon dioxide reduction; electrochemical energy storage
Hobbies:	Reading

The author presented on this page has recently published his **10th article** in *Angewandte Chemie* in the last 10 years:

“Hematite-Based Water Splitting with Low Turn-On Voltages”: C. Du, X. Yang, M. T. Mayer, H. Hoyt, J. Xie, G. McMahon, G. Bischoff, D. Wang, *Angew. Chem.* **2013**, 125, 12924–12927; *Angew. Chem. Int. Ed.* **2013**, 52, 12692–12695.

If I were not a scientist, I would be ... a fiction writer.

My favorite food is ... fruit salad.

My worst nightmare is ... that I am no longer curious about the universe I am in.

The most exciting thing about my research is ... to learn to appreciate the many levels of subtleties of seemingly simple systems.

I lose track of time when ... I read works by great minds.

My biggest motivation is ... to explore the unknown world.

My favorite song is ... Mo Li Hua (Jasmine Flower; a Chinese folk song).

I can never resist ... delicious fruit from the tropical islands.

I celebrate success by ... taking a long walk.

When I'm frustrated, I ... take a long a walk.

My favorite author (fiction) is ... Isaac Asimov.

My top three films of all time are ... *Back to the Future*, *Back to the Future Part II*, and *Back to the Future Part III*.

My favorite quote is ... “He who gives no thought to the future is sure to be beset by worries at hand” (Confucius; 人无远虑, 必有近忧).

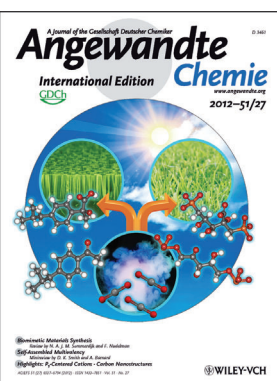
The most important thing I learned from my parents is ... not to take anything for granted.

My favorite place on earth is ... home.

My 5 top papers:

1. “Spontaneous Growth of Highly Conductive Two-Dimensional Single-Crystalline TiSi_2 Nanonets”: S. Zhou, X. Liu, Y. Lin, D. Wang, *Angew. Chem.* **2008**, 120, 7795–7798; *Angew. Chem. Int. Ed.* **2008**, 47, 7681–7684. (Discovery of a new material form.)
2. “Understanding the Origin of the Low Performance of Chemically Grown Silicon Nanowires for Solar Energy Conversion”: G. Yuan, K. Aruda, S. Zhou, J. Xie, D. Wang, *Angew. Chem.* **2011**, 123, 2382–2386; *Angew. Chem. Int. Ed.* **2011**, 50, 2334–2338. (A detailed understanding of the photoelectrochemical properties of Si nanowires.)
3. “Nanonet-Based Hematite Heteronanostructures for Efficient Solar Water Splitting”: Y. Lin, S. Zhou, S. Sheehan, D. Wang, *J. Am. Chem. Soc.* **2011**, 133, 2398–2401 (An alternative route to doping for the improvement of hematite performance as a photoelectrode.)
4. “Understanding Ionic Vacancy Diffusion Driven Growth of Cuprous Sulfide Nanowires”: X. Liu, M. Mayer, D. Wang, *Angew. Chem.* **2010**, 122, 3233–3236; *Angew. Chem. Int. Ed.* **2010**, 49, 3165–3168. (Proposal of a new crystal growth model.)
5. “Growth of p-Type Hematite by Atomic Layer Deposition and Its Utilization for Improved Solar Water Splitting”: Y. Lin, Y. Xu, M. T. Mayer, Z. I. Simpson, G. McMahon, S. Zhou, D. Wang, *J. Am. Chem. Soc.* **2012**, 134, 5508–5511. (High-quality homojunctions within transition-metal oxides.)

DOI: 10.1002/anie.201310780



The work of D. Wang has been featured on the cover of *Angewandte Chemie*: “Silicon Nanowires as Photoelectrodes for Carbon Dioxide Fixation”: R. Liu, G. Yuan, C. L. Joe, T. E. Lightburn, K. L. Tan, D. Wang, *Angew. Chem.* **2012**, 124, 6813–6816; *Angew. Chem. Int. Ed.* **2012**, 51, 6709–6712.