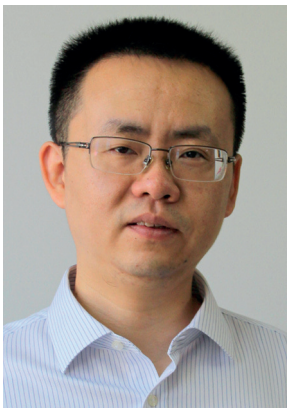
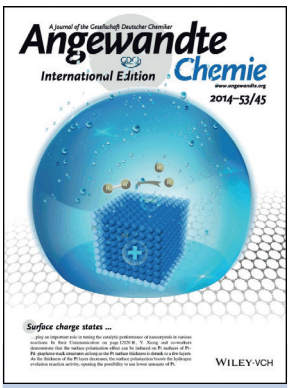


Y. Xiong

*The author presented on this page has published more than **10 articles** in Angewandte Chemie in the last 10 years, most recently:*
"Van der Waals Heterostructures Comprised of Ultrathin Polymer Nanosheets for Efficient Z-Scheme Overall Water Splitting": L. Wang, X. Zheng, L. Chen, Y. Xiong, H. Xu, *Angew. Chem. Int. Ed.* **2018**, *57*, 3454; *Angew. Chem.* **2018**, *130*, 3512.



The work of Y. Xiong has been featured on the back cover of Angewandte Chemie:
"Surface Polarization Matters: Enhancing the Hydrogen Evolution Reaction by Shrinking Pt Shells in Pt–Pd–Graphene Stack Structures": S. Bai, C. Wang, M. Deng, M. Gong, Y. Bai, J. Jiang, Y. Xiong, *Angew. Chem. Int. Ed.* **2014**, *53*, 12120; *Angew. Chem.* **2014**, *126*, 12316.

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Current research interests:	Plasmonic catalysis and photocatalysis; catalytic conversion of carbon resources; materials surface and interface
Hobbies:	Swimming; traveling; reading

The best advice I have ever been given is not to let my knowledge limit my imagination.

My favorite place on earth is Mount Rainier in Washington State (USA).

The most important thing I learned from my parents is the freedom of choice.

If I could have dinner with three famous scientists from history, they would be Alfred Nobel, Albert Einstein, and Michael Faraday.

And I would ask them to develop a collaborative project that can demonstrate the combination of theoretical physics and chemistry with applied science.

The most amusing chemistry adventure in my career was the finding that nanomaterials were produced in an autoclave where an explosive reaction unexpectedly happened.

What I look for first in a publication is the figures, which should be a carefully organized and presented set of data to support hypotheses and conclusions.

When I'm frustrated, I go swimming for two kilometers to gather my spirit.

My best investment is the time spent with my family.

My favorite quote is "Use what talent you possess; the woods would be very silent if no birds sang there except those that sang best" (Henry van Dyke).

If I were not a scientist, I would be a writer of novels.

My 5 top papers:

1. "Isolation of Cu Atoms in Pd Lattice: Forming Highly Selective Sites for Photocatalytic Conversion of CO_2 to CH_4": R. Long et al., *J. Am. Chem. Soc.* **2017**, *139*, 4486. (Identification of bimetallic atom pairs as catalytically active sites for CO_2 activation in photocatalysis.)
2. "Oxide Defect Engineering Enables to Couple Solar Energy into Oxygen Activation": N. Zhang et al., *J. Am. Chem. Soc.* **2016**, *138*, 8928. (Demonstration of oxygen vacancies as catalytically active sites for O_2 activation in photocatalysis.)
3. "Efficient Coupling Solar Energy into Catalytic Hydrogenation by Well-Designed Palladium Nanostructures": R. Long et al., *Angew. Chem. Int. Ed.* **2015**, *54*, 2425; *Angew. Chem.* **2015**, *127*, 2455. (Development of a palladium nanostructure for surface plasmon-driven catalytic hydrogenation.)
4. "Refining Defect States in $W_{18}O_{49}$ by Mo Doping: A Strategy for Tuning N_2 Activation towards Solar-Driven Nitrogen Fixation": N. Zhang et al., *J. Am. Chem. Soc.* **2018**, *140*, 9434. (Integration of defect engineering with elemental doping for enhanced nitrogen activation.)
5. "Surface Facet of Palladium Nanocrystals: A Key Parameter to the Activation of Molecular Oxygen for Organic Catalysis and Cancer Treatment": R. Long et al., *J. Am. Chem. Soc.* **2013**, *135*, 3200. (Elucidation of the mechanism for O_2 activation on a palladium surface.)

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