



Jier Huang, Ph.D

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Current Position

- Assistant Professor, Department of Chemistry, Marquette University, August 2013-present

Background

- Research Associate, Argonne National Laboratory, August 2010-July 2013
- Ph.D, Physical Chemistry, May 2010, Emory University, Atlanta, GA
- MS, Analytical Chemistry, June 2004, Lanzhou University, China
- BS, Chemistry, June 2001, Lanzhou University, China

Honors and Awards

- 2017 Way Klingler Young Scholar Award
- 2017 NSF Career Award
- 2015 Regular Research Grant and Summer Faculty Fellowship, Marquette University
- 2014 Faculty Development Award, 2014, Marquette University
- 2009 Chinese Government Award for Outstanding Students Abroad
- 2007 Osborne R. Quayle Graduate Research Award, Emory University
- 2004 Haizheng Graduate Research Award, Lanzhou University
- 2001 Excellent Graduating Student Prize - Certificate for the Best Students in College, Lanzhou University
- 2001 Zhang Shumin Prize - the Senior Chemistry Major with the Highest GPA in Lanzhou University
- 2000 Chun-Tsung Undergraduate Research Fellowship Award - Sponsored by Tsung-Dao Li, Lanzhou University
- 2000 Bao-Gang Award – for Top 10 of 1500 Undergraduate Students, Lanzhou University
- 1997-1999 Annual Awards for the Top 3 Students in Chemistry for Undergraduate Studies, Lanzhou University

Activities

- NSF Review Panelist (2015-2018)
- NSF External Proposal Reviewer (2015-2017)
- PRF External Proposal Reviewer (2016-2017)
- Editorial Board Member for Scientific Report (since 2016)
- Manuscript reviewer for over 15 peer-reviewed journals such as Nature Communication, Journal of the American Chemical Society, Angewandte Chemie, ACS Energy Letter, Coordination Chemistry Reviews, Journal of Physical Chemistry, Energy and Environmental Science, etc.
- Mentor for high school students in a NCCR and HHMI-supported SMART Team Program (hosted by Milwaukee School of Engineering)
- Judge for the UWM Chemistry and Biochemistry Symposium (2014 and 2018)
- Serving in Graduate and Undergraduate Committee, Marquette University, WI
- Member of American Chemical Society and the International X-ray Absorption Society

Interests

The research in my group focuses on the design and structural analysis of porous hybrid materials such as metal organic frameworks as photocatalysts for solar to fuel conversion. The specific interest include using time-resolved X-ray absorption spectroscopy and in situ X-ray absorption spectroscopy to advance the fundamental understanding of photocatalytic mechanism of these materials.

Goals

I have been a frequent user of APS since 2010 when I joined the Solar Energy Conversion group at CSE, Argonne as a postdoctoral researcher. Now as a PI at Marquette University, I regularly bring graduate and undergraduate students to APS for structural characterization of catalytic materials. With these hands-on experience at APS, my goal to be APSUO includes:

- To raise the awareness of X-ray science and APS to next generation scientists and society
- To facilitate the communication between users and APS administrative team
- To provide suggestions and input on future upgrade of APS based on the users' interests