

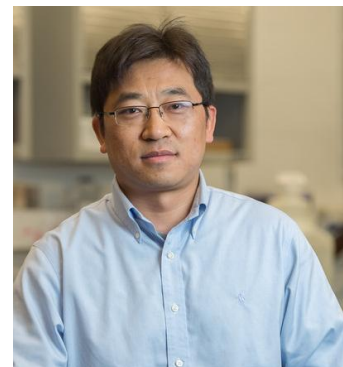
## Gang Wu

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### Education

- 2004. Ph.D.: Environmental Engineering, Harbin Institute of Technology, Harbin, China.
- 1999. M.S.: Applied Chemistry, Harbin Institute of Technology, Harbin, China.
- 1997. B.S.: Electrochemical Engineering, Harbin Institute of Technology, Harbin, China.

### Employment History

- Aug 2024-present. *Professor*, Washington University in St. Louis, USA
- Aug 2020- Aug 2024, *Professor*, University at Buffalo, the State University of New York (SUNY), USA
- Aug 2018-Aug 2020, *Associate Professor*, University at Buffalo, SUNY, USA
- Aug 2014-Aug 2018, *Assistant Professor*, University at Buffalo, SUNY, USA
- May 2010-Aug 2014, *Staff Scientist*, Los Alamos National Laboratory, USA
- Jan 2008-May 2010, *Postdoc*, Los Alamos National Laboratory, USA
- Feb 2006-Jan 2008, *Postdoc*, University of South Carolina, USA
- Jan 2004-Jan 2006, *Postdoc*, Tsinghua University, Beijing, China

### Selected Publications

- G. Wu and P. Zelenay\*, Atomically dispersed transition-metal electrocatalysts for oxygen reduction reaction in fuel cells: activity versus stability, *Nature Reviews Materials*, 9 (9), 643–656.
- Y. Zeng, C. Li, B. Li, J. Liang, M. J. Zachman, D. A. Cullen, R. P. Hermann, E. E. Alp, B. Lavina, S. Karakalos, M. Lucero, B. Zhang, M. Wang, Z. Feng, G. Wang, J. Xie, D.J. Myers, J.-P. Dodelet, and G. Wu\*, “Tuning the thermal activation atmosphere breaks the activity-stability trade-off of Fe-N-C oxygen reduction fuel cell catalysts”, *Nature Catalysis*, 6, 1215-1227, (2023).
- Y. Zeng, J. Liang, C. Li, Z. Qiao, B. Li, S. Hwang, N. N. Kariuki, C.-W. Chang, M. Wang, M. Lyons, S. Lee, Z. Feng, G. Wang, J. Xie, D. A. Cullen, D. J. Myers, G. Wu\*, "Regulating Catalytic Properties and Thermal Stability of Pt and PtCo Intermetallic Fuel Cell Catalysts via Strong Coupling Effects between Single Metal Site-Rich Carbon and Pt" *J. Am. Chem. Soc.*, 145, 17643-17655 (2023).
- S. Liu, C. Li, M. J. Zachman, Y. Zeng, H. Yu, B. Li, M. Wang, J. Braaten, J. Liu, H. M. Meyer III, M. Lucero, A J. Kropf, Q. Gong, Q. Shi, Z. Feng, G. Wang\*, D. J. Myers\*, J. Xie\*, D. A Cullen\*, L. Shawn\*, G. Wu\*. Durable and High-Power Iron-Based Cathodes in Competition with Platinum for Proton-Exchange Membrane Fuel Cells. *Nature Energy*, 7, 652–663 (2022).
- Y. Li, W. Shan, M. J. Zachman, M. Wang, S. Hwang, H. Tabassum, J. Yang, X. Yang, S. Karakalos, Z. Feng, G. F. Wang, G. Wu\*, “Atomically Dispersed Dual-Metal Site Catalysts for Enhanced CO<sub>2</sub> Reduction: Mechanistic Insight into Active Site Structures”, *Angew. Chem.-Int. Edit.*, 61, e202205632 (2022).

### **Research Interests**

- Electrochemical engineering and technologies for energy and environmental sustainability.
- Sustainable materials and catalysts for hydrogen and carbon-neutral technologies, such as polymer electrolyte fuel cells, electrolyzers, CO<sub>2</sub> reduction, electrosynthesis, and carbon-free nitrogen electrochemistry;
- Earth-abundant materials-based electrocatalysis and heterogeneous catalysis for clean energy: ammonia decomposition for hydrogen storage and generation; dry reforming of methane (DRM) to convert greenhouse gases (CO<sub>2</sub> and CH<sub>4</sub>) into value-added syngas (CO and H<sub>2</sub>)

### **Awards**

- Electrochemical Society (ECS) Energy Technology Division Research Award, 2025.
- University at Buffalo (UB) Patent Award 2023
- SUNY Chancellor's Award for Excellence in Scholarship & Creative Activities, 2021.
- UB's Exceptional Scholar – Sustained Achievement Award, 2020.