



- PUBLICATIONS PRIOR TO UCHICAGO
- Wuttig, A.,** Derrick, J., Loipersberger, M., Snider, A., Head-Gordon, M., Chang, C.,\* Toste, F. D.\* (2021). Controlled Single Electron Transfer via Metal-Ligand Cooperativity Drives Divergent Nickel Electrocatalyzed Radical Pathways. *Journal of the American Chemical Society*, 143 (18), 6990–7001.
- Wuttig, A.,** Ryu, J. & Surendranath, Y.\* (2021). Electrolyte Competition Controls Surface Binding of CO Intermediates to CO<sub>2</sub> Reduction Catalysts. *The Journal of Physical Chemistry C*, 125 (31), 17042–17050.
- Ryu, J., **Wuttig, A.** & Surendranath Y.\* (2018). Quantifying Interfacial pH Variation at Molecular Length Scales Using a Concurrent Non-Faradaic Reaction. *Angewandte Chemie International Edition*, 57(30), 9300-9304.
- Wuttig, A.,** Yoon, Y., Ryu, J. & Surendranath, Y.\* (2017). Bicarbonate is Not a General Acid in Au-Catalyzed CO<sub>2</sub> Electroreduction. *Journal of the American Chemical Society*, 139 (47), 17109-17113.
- Wuttig, A.,** Liu, C., Peng, Q., Yaguchi, M., Hendon, C. H., Motobayashi, K., Shen, Y., Osawa, M. & Surendranath, Y.\* (2016). Tracking a Common Surface-Bound Intermediate during CO<sub>2</sub>-to-Fuels Catalysis. *ACS Central Science*, 2(8), 522-528.
- Wuttig, A.,** Yaguchi, M., Motobayashi, K., Osawa, M. & Surendranath, Y.\* (2016). Inhibited Proton Transfer Enhances Au-Catalyzed CO<sub>2</sub>-to-Fuels Selectivity. *Proceedings of the National Academy of Sciences, U.S.A.*, 113(32), E4585 - E4593.
- Wuttig, A.,** Krizan J., Gu J., Frick, J., Cava, R., & Bocarsly A.\* (2016). The Effect of Mg-doping and Cu nonstoichiometry on the Photoresponse of CuFeO<sub>2</sub>. *Journal of Materials Chemistry A*, 5(1), 165-171.
- Hall, A., Yoon, Y., **Wuttig, A.**, Surendranath, Y.\* (2015). Mesostructure-Induced Selectivity in CO<sub>2</sub> Reduction Catalysis. *Journal of the American Chemical Society*, 137(47), 14834-14837.
- Wuttig, A.,** Surendranath, Y.\* (2015). Impurity Ion Coordination Enhances Carbon Dioxide Reduction. *ACS Catalysis*, 5(7), 4479-4484.
- Gu J., **Wuttig, A.**, Krizan J., Hu, Y., Detweiler Z., Cava R., Bocarsly A.\* (2013). Mg-doped CuFeO<sub>2</sub> Photocathodes for Photoelectrochemical Reduction of Carbon Dioxide. *The Journal of Physical Chemistry C*, 117(24), 12415-12422.
- Hsia C., **Wuttig, A.**, Yang H.\* (2011). An Accessible Approach to Preparing Water-Soluble Mn<sup>2+</sup>-doped (CdSSe)ZnS (Core) Shell Nanocrystals for Ratiometric Temperature Sensing. *ACS Nano*, 5(12), 9511-9522.
- PROFESSIONAL MEMBERSHIPS AND SERVICE
- Member, American Chemical Society, Inorganic Division; International Society of Electrochemistry; Society of Electroanalytical Chemistry; Electrochemical Society
- Reviewer (Manuscripts), *The Journal of the American Chemical Society*, *Journal of Materials Chemistry A*, *Chemical Science*, *Journal of Catalysis*, *Nature Catalysis*, *The Journal of Physical Chemistry*, *ACS Catalysis*, *Angewandte Chemie International Edition*, *ChemElectroChem*, *ChemCatChem*, *ChemPhysChem*, *ACS Energy Letters*, *Nature Energy*, *Nature Communications*, *Chemical Reviews*, *Organic Letters*, *Proceedings of the National Academy of Sciences*, *Inorganic Chemistry*
- Reviewer (Grants), *American Chemical Society Petroleum Research Fund*, *Israel Science Foundation/National Natural Science Foundation of China Research Grant*, *Department of Energy Office of Science*, *Science Graduate Research Program*
- INVITED TALKS
- Independent Career:
- Wuttig, A. (Scheduled in April 2024). Electrocatalytic Syntheses with Interfacial Control. **Invited.** Merck, Rahway, NJ, U.S.A.
- Wuttig, A. (Scheduled in March 2024). Electrocatalytic Syntheses with Interfacial Control. **Invited.** Northeastern University, Boston, MA, U.S.A.

- Wuttig, A. (Scheduled in March 2024). Non-Covalent Electrode Modifications Mimic the Covalent. Symposium on Next-Generation Surface Functionalization Strategies for Noble-Metal Surfaces and Nanoparticles: From Fundamentals to Applications. *Invited*. ACS Spring National Meeting, New Orleans, LA, U.S.A.
- Wuttig, A. (December 2023). Electrocatalytic Syntheses with Interfacial Control. *Invited*. Argonne National Laboratory. Chicago, IL, U.S.A.
- Wuttig, A. (November 2023). Electrocatalytic Syntheses with Interfacial Control. *Invited*. Loyola University. Chicago, IL. U.S.A.
- Wuttig, A. (October 2023). Electrocatalytic Syntheses with Interfacial Control. Symposium on Electroorganic Synthesis. *Invited*. Electrochemical Society Biannual Meeting, Gotenberg, Sweden.
- Wuttig, A. (September 2023). Electrocatalytic Syntheses with Interfacial Control. Chicago Regional Inorganic Conference. *Invited*. Chicago, IL, U.S.A.
- Wuttig, A. (August 2023). Non-Covalent Electrode Modifications Mimic the Covalent. Symposium on Sustainable catalysis for C1 valorization supported by the PRF. *Invited*. ACS Fall National Meeting, San Francisco, CA, U.S.A.
- Wuttig, A. (July 2023). Electrocatalytic Syntheses with Interfacial Control. Solar Solutions to Energy and Environmental Problems. *Invited*. Telluride Science and Innovation Center, Telluride, CO, U.S.A.
- Wuttig, A. (January 2023). Electrocatalytic Syntheses with Interfacial Control. Symposium on Electrically driven Chemical Transformation for Sustainable Future. *Invited*. Virtual, hosted by Korea University, Korea.
- Wuttig, A. (November 2022). Electrocatalytic Syntheses with Interfacial Control. Center for Synthetic Organic Electrochemistry. *Invited*. Salt Lake City, UT, U.S.A.
- Wuttig, A. (September 2022). Electrocatalytic Syntheses with Interfacial Control. *Selected for Late-Breaking Topics Talk*. Gordon Research Conference on Electrochemistry. Ventura, CA. U.S.A.
- Prior to independent career (2021 and earlier), 8 invited and 6 contributed talks at various conferences, including American Chemical Society National Meetings, Society of Electroanalytical Chemistry Meetings, and International Society of Electrochemistry Annual Meetings.

TRAINING  
EXPERIENCES

- Cyclic Voltammetry International School, Paris Diderot University, Paris, France, 2019
- American Chemical Society New Faculty Workshop, Washington, D.C., 2022

TEACHING AT  
UCHICAGO

- Professor, Advanced Inorganic Chemistry 301, University of Chicago, Chicago, IL
- Fall Quarter 2021, 2022, 2023
- Professor, Inorganic Chemistry 201, University of Chicago, Chicago, IL
- Winter Quarter 2023

SERVICE AT  
UCHICAGO

- CHM 500 Working Group, University of Chicago
- Member, 2023-2024
- Climate & Energy Initiative in Energy Technologies, University of Chicago
- Organizing Committee on Electrochemistry Workshop, 2023-2024
- Graduate Admissions Committee, Department of Chemistry, University of Chicago
- Member, 2021-2022; 2022-2023, 2023-2024 Academic Years
- Graduate Recruitment Committee, Department of Chemistry, University of Chicago
- Member, 2021-2022 Academic Year

- Co-Chair, 2022-2023 Academic Year
- Chair, 2023-2024 Academic Year

Junior Faculty Search Committee, Department of Chemistry, University of Chicago

- Member, 2021-2022; 2022-2023 Academic Years

Medical Scientist Training Programs Admission, University of Chicago

- Interviewer, 2021-2022 Academic Year

Future Faculty Conference, University of Chicago

- Chair of Session, May 2022
- Reviewer of Inorganic Applications, March 2023
- Panel Member and Mentee, June 2023

Chicago Regional Inorganic Conference

- Reviewer of Inorganic Applications, July 2023

Ph.D. Candidacy Examiner, Department of Chemistry, University of Chicago

- Member, 2021-2022; 3 candidacy exams
- Member, 2022-2023; 3 candidacy exams
- Member, 2023-2024; 4 candidacy exams

CURRENT  
COMPOSITION  
OF RESEARCH  
GROUP

Postdoctoral Scholars:

- Dr. Deepak Badgurjar, Joined September 2021
- Dr. Qiu-Cheng Chen, Joined November 2021

Graduate Students:

- Ms. Špela Kunstelj, Joined December 2021
- Mr. Benjamin Masters, Joined November 2022
- Mr. Taemin Kim, Joined November 2023
- Mr. Nicolas Maldonado, Joined November 2023
- Mr. Gregory Gorobets, Joined November 2023
- Ms. Ye Ji Kim., Joined November 2023

Undergraduate Researchers:

- Ms. Madison Hyunh, Joined September 2021
- Ms. Sarah Kress, Joined March 2022
- Ms. Ry Papadopoulos, Joined October 2023

ALUMNI

Undergraduate Researchers:

- Mr. Charles Zhang, July 2021 – January 2022
- Mr. Rocco Molinelli, July 2021 – May 2022, Current: University of Oregon Master's in Electrochemistry Program
- Ms. Emma Edwards, Joined November 2022, Current: Undergraduate Student at the University of Chicago