

## Gary F. Moore Two-Page Curriculum Vitae

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### Education and Training

- 2009 – 2011 **Camille and Henry Dreyfus Postdoctoral Fellow**, Yale University, New Haven, CT  
Advisors: Gary W. Brudvig and Robert H. Crabtree
- 2004 – 2009 **Ph.D.** Chemistry and Biochemistry Arizona State University, Tempe, AZ  
Advisor: Ana L. Moore
- 1998 – 2004 **B.S.** Chemistry, The Evergreen State College, Olympia, WA  
Advisor: Peter J. Pessiki

### Research and Professional

- 2020 – present **Associate Professor**, Arizona State University, Tempe, AZ  
2014 – 2020 **Assistant Professor**, Arizona State University, Tempe, AZ  
2011 – 2014 **Research Staff Scientist**, Berkeley Lab, Berkeley, CA

### 10 Selected Fellowships, Awards, and Honors

1. Presidential Early Career Award for Scientists and Engineers (PECASE) (2025)
2. National Academy of Sciences (NAS) Kavli Foundation Fellow (2023)
3. Inter-American Photochemical Society (I-APS) Young Investigator Award (2023)
4. Department of Energy Early Career Research Award (2020) (*One of 76 faculty nationwide*)
5. Camille Dreyfus Teacher-Scholar Award (2020) (*One of 14 faculty nationwide*)
6. Scialog Negative Emission Science Fellow (2020) (*One of approximately 50 faculty named as Scialog Fellows by the Alfred P. Sloan Foundation and the Research Corporation for Science Advancement*)
7. ARCS Foundation Exceptional Mentor Award (2018) (*One of three faculty recognized nationally*)
8. National Science Foundation CAREER Award (2017)
9. Julie Ann Wrigley Global Institute for Sustainability Scholar (2017)
10. Yale Edward A. Bouchet Honor Society Fellow (2011)

### 10 Representative Publications

1. Hensleigh, L. K.; Nishiori, D.; Peterson, I.; Moore, G. F. **Exploring Attached-Buffer Effects and Gibbs-Donnan Equilibria in Ionomeric Energy Transduction Materials.** *Chem Comm.* **2026**, 62, 4744-4748. (Cover Article)
2. Nishiori, D.; Reyes Cruz, E. A.; Hensleigh, L. K.; Nguyen, N. P.; Moore, G. F. **Shedding Light on Overpotentials and Underpotentials in (Photo)electrochemical Reactions.** *Chem Soc Rev.* DOI: <https://doi.org/10.1039/D4CS00695J> (Invited Contribution, Cover article)
3. Nishiori, D.; Hensleigh, L. K.; Nguyen, N. P.; Peterson, I.; Moore, G. F. **Wavelength-Resolving Catalytic Turnover Frequencies and Identifying Alternate Proton Donors in Solar-Fuel-Forming Reactions.** *ACS Catal.* **2025**, 8, 9888-9898. (Cover article)
4. Wadsworth, B. L.; Beiler, A. M.; Khusnutdinova, D.; Reyes Cruz, E. A.; Moore, G. F. **Interplay Between Light Flux, Quantum Efficiency, and Turnover Frequency in Molecular-Modified Photoelectrosynthetic Assemblies.** *J. Am. Chem. Soc.* **2019**, 141, 15932-15941. (Cover Article)
5. Nishiori, D.; Menzel, J. P.; Armada, N.; Reyes Cruz, E. A.; Nannenga, B. L.; Batista, V. S.; Moore, G. F. **Breaking a Molecular Scaling Relationship using an Iron-Iron Fused Porphyrin Electrocatalyst for Oxygen Reduction.** *J. Am. Chem. Soc.* **2024**, 146, 11622-11633.
6. Reyes Cruz, E. A.; Nishiori, D.; Wadsworth, B. L.; Nguyen, N. P.; Hensleigh, L. K.; Khusnutdinova, D.; Beiler, A. M.; Moore, G. F. **Molecular-Modified Photocathodes for Applications in Artificial Photosynthesis and Solar-to-Fuel Technologies.** *Chem. Rev.* **2022**, 122, 16051-16109.

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7. Krawicz, A.; Yang, J.; Anzenberg, E.; Yano, J.; Sharp, I. D.; Moore, G. F. **Photofunctional Construct That Interfaces Molecular Cobalt-Based Catalysts for H<sub>2</sub> Production to a Visible-Light-Absorbing Semiconductor.** *J. Am. Chem. Soc.* **2013**, *135*, 11861-11868.
8. Faunce, T. A.; Lubitz, W.; Rutherford, A. W.; MacFarlane D.; Moore, G. F.; Yang, P.; Nocera, D. G.; Moore, T. A.; Gregory, D. H.; Fukuzumi, S.; Yoon, K. B.; Armstrong, F. A.; Wasielewski, M. R. **Energy and Environment Policy Case for a Global Project on Artificial Photosynthesis.** *Energy Environ. Sci.* **2013**, *6*, 695-698.
9. Moore, G. F.; Blakemore, J. D.; Milot, R. L.; Hull, J.; Song, H.; Cai, L.; Schmuttenmaer, C. A.; Crabtree, R. H.; Brudvig, G. W. **A Visible Light Water-Splitting Cell with a Photoanode Formed by Codeposition of a High-Potential Porphyrin and a Homogeneous Iridium Water-Oxidation Catalyst.** *Energy Environ. Sci.* **2011**, *4*, 2389-2892.
10. Moore, G. F.; Hambourger, M.; Gervaldo, M.; Poluektov, O. G.; Rajh, T.; Gust, D.; Moore, T. A.; Moore, A. L. **A Bioinspired Construct that Mimics the Proton Coupled Electron Transfer between P680 and the TyrZ-His190 Pair of Photosystem II.** *J. Am. Chem. Soc.* **2008**, *130*, 10466-10467.

### Five Selected Examples of Conference and Workshop Organization

1. Co-chair of the **2026 Electron Donor-Acceptor Interactions Gordon Research Conference** (2026).
2. Serve on the Scientific Advisory Board for the **NASA/NExSS Extraterrestrial Photosynthesis Workshop** (2025-2026).
3. Chair of the **30<sup>th</sup> Western Photosynthesis Conference** (2021).
4. Co-Chair of the **29<sup>th</sup> Winter Inter-American Photochemical Society Conference** (2020).
5. Session Chair of the **2019 Gordon Research Conference on Photosynthesis Power Hour** (2019).

### Five Selected Examples of Other Activities Demonstrating Leadership, Service, and Outreach

1. Serve on the Scientific Advisory Board for the U.S. Department of Energy **Center for Hybrid Approaches in Solar Energy to Liquid Fuels (CHASE)**. (*The SAB reviews Hub research and management operations and provides guidance to the Directorate in areas including management, scientific direction, and research strategies*) (2025-current).
2. Principal Investigator of the **ASU-Berkeley Lab STEM Pathways Program** (*supported by the Alfred P. Sloan Foundation*) (2022-2025).
3. Contributing author of the U.S. Department of Energy **Factual Document for the Basic Energy Sciences Roundtable on Liquid Solar Fuels**. (Authors: Ager, J.; Deutsch, T.; Esposito, D.; Gregoire, J. Hahn, C.; Hammarström, L.; Jaramillo, T. King, L.; King, P.; Miller, D.; Miller-Link, E.; Moore, G.; Mulfort, K.; Neale, N.; Nozik, A.; Osterloh, F.; Geoff Ozin, D.; Peters, J.; Polyanski, D.; Seefeldt, L.; Smith, W.; Xiang, C.; Yu, J.) (2023).
4. Panel participant and contributing author of the U.S. Department of Energy **Report of the Basic Energy Sciences Roundtable on Research Opportunities in the Physical Sciences Enabled by Cryogenic Electron Microscopy**. (Authors: Augustyn, V.; Berman, D.; Chen, Q.; Cui, Y.; DeYoreo, J.; Gu, X.; Idrobo, J. C.; Jungjohann, K.; Kourkoutis, L.; Liu, A.; McComb, D.; Moore, G.; Nelson, H.; Ross, F.; Stemmer, S.; Streubel, R.; Wallace, A.; Wang, C.; Yan, H. et al.) (2021).
5. Initiated and hosted the **Running on Sun Internship (ROSI) program at ASU**, a project providing internships for developing scientists through the Phoenix Preparatory Academy, which is composed almost entirely of underserved groups (2017-2022).