

Gary F. Moore Two-Page Curriculum Vitae

Associate Professor
School of Molecular Sciences
Arizona State University
Tempe, AZ 85287-1604, U.S.A.

Phone: (480) 727-9578
Email: gfmoores@asu.edu
Web: <http://www.gfmooreslab.com>

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. Inter-American Photochemical Society (I-APS) Young Investigator Award (2022)
2. Department of Energy Early Career Research Award (2020) (*One of 76 faculty nationwide*)
3. Camille Dreyfus Teacher-Scholar Award (2020) (*One of 14 faculty nationwide*)
4. Recognized as a “outstanding chemists with Native American heritage” by the National Science Foundation during Celebration of Native American Heritage Month (2020).
5. 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*)
6. ARCS Foundation Exceptional Mentor Award (2018) (*One of three faculty recognized nationally*)
7. Journal of Materials Chemistry Emerging Investigator (2018)
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. 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)
2. Wadsworth, B. L.; Khusnutdinova, D.; Moore, G. F.* **Polymeric Coatings for Applications in Electrocatalytic and Photoelectrosynthetic Fuel Production.** *J. Mater. Chem. A.* **2018**, *6*, 21654-21665. (Invited Contribution for a Special Issue on Emerging Investigators)
3. Ardo, S.*; Rivas, D. F.*; Modestino, M.*; Greiving, V. S.*; Abdi, F.; Llado, E. A.; Artero, V.; Ayers, K.; Battaglia, C.; Becker, J-P.; Bederak, D.; Berger, A.; Buda, F.; Chinello, E.; Dam, B.; Palma, V. D.; Edvinsson, T.; Fujii, K. Gardeniers, H.; Geerlings, H.; Hashemi, M.; Haussener, S.; Houle, F.; Huskens, J.; James, B.; Konrad, K.; Kudo, A.; Kunturu, P. P.; Lohse, D Mei, B.; Miller, E.; Moore, G. F.; Muller, J.; Orchard, K.; Post, R.; Rosser, T.; Saadi, F.; Schüttauf, J-F.; Seger, B.; Sheehan, S.; Spurgeon, J.; Tang, M.; van de Krol, R.; Vesborg, P.; Westerik, P. **Pathways to Electrochemical Solar Hydrogen Technologies.** *Energy Environ. Sci.* **2018**, *11*, 2768-2783.
4. Krawicz, A.; Yang, J.; Anzenberg, E.; Yano, J.; Sharp, I. D.; Moore, G. F.* **Photofunctional Construct That Interfaces Molecular Cobalt-Based Catalysts for H₂ Production to a Visible-Light-Absorbing Semiconductor.** *J. Am. Chem. Soc.* **2013**, *135*, 11861-11868.

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5. 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.
6. Moore, G. F.*; Ananyev, G. M.; Govindjee **Young Research Investigators Honored at 2012 Gordon Research Conference on Photosynthesis.** *Photosynth. Res.* **2012**, *114*, 137-142.
7. 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.
8. Moore, G. F.*; Brudvig, G. W.* **Energy Conversion in Photosynthesis: A Paradigm for Solar Fuel Production.** *Annu. Rev.: Condensed Matter Physics.* **2011**, *2*, 303-327.
9. Hambourger, M.; Moore, G. F.; Kramer, D. M.; Gust, D.*; Moore, A. L.*; Moore, T. A.* **Biology and Technology for Photochemical Fuel Production.** *Chem. Soc. Rev.* **2009**, *38*, 25-35.
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. **30th Western Photosynthesis Conference.** January 2nd and 9th, 2021 (**Meeting Co-Organizer**)
2. **29th Winter Inter-American Photochemical Society Conference.** Sarasota, FL. January 2-5, 2020 (**Meeting Co-Organizer**)
3. **2019 Gordon Research Conference on Photosynthesis Power Hour** (Designed to address challenges women face in science and issues of diversity and inclusion). Newry, ME. July 21-26, 2019 (**Session Chair**).
4. **2017 Doing Research in Indian Country Conference** Tempe, AZ. October 27, 2017 (**Discussion Moderator and Session Chair**)
5. **26th Winter Inter-American Photochemical Society Conference, Synthetic Photochemistry Session.** Sarasota, FL. January 2-5, 2017 (**Session Chair**)

10 Selected Examples of Other Activities Demonstrating Leadership, Service, and Outreach

1. Panel speaker at the Fifteenth Annual Arizona Western Alliance to Expand Student Opportunities (WAESO) Student Research Conference. In a session on “*Why you should consider Doctoral education and the Professorate*” (2021)
2. Worked with the Inter-Tribal Council of Arizona and the American Indian Education Association to participate in the 2020 youth camp during a breakout session titled, *Careers in STEM*
3. Panel speaker at the Fourteenth Annual Arizona Western Alliance to Expand Student Opportunities (WAESO) Student Research Conference. In a session on “*Why you should consider Doctoral education and the Professorate*” (2020)
4. Mentor of undergraduate students affiliated with the American Indian Science & Engineering Society (AISES) at ASU (2015-current)
5. Initiated and host 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-current)
6. Assisted with Organizing the Doing Research in Indian Country Conferences (2017-2019)
7. Grand Judge for the INTEL International Science & Engineering Fair (2016-current)
8. Coached high school students for the Arizona Science and Engineering Fair (AzSEF) (2015-current)
9. Speaker at the Telluride “*Solar Solutions to Environmental Problems*” Workshop (2015 and 2017)
10. Panel Participant at the Berkeley Lab Film Screening of *Switch: Discover the Future of Energy* (2013)