

NSF BIOGRAPHICAL SKETCH

NAME: Moore, Gary F.

POSITION TITLE & INSTITUTION: Associate Professor, Arizona State University

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
The Evergreen State College	Olympia, WA	Chemistry	BS	2004
Arizona State University	Tempe, AZ	Chemistry & Biochemistry	PHD	2009
Yale University	New Haven, CT	Chemistry	Postdoctoral Fellow	2009 - 2011

(b) APPOINTMENTS

2020 - present Associate Professor, Arizona State University, Tempe, AZ
2014 - 2020 Assistant Professor, Arizona State University, Tempe, AZ
2011 - 2014 Principal Investigator and Staff Scientist, Lawrence Berkeley Lab, Berkeley, CA
2009 - 2011 Camille and Henry Dreyfus Foundation Postdoctoral Fellow, Yale University, New Haven, CT
2006 - 2009 ARCS Foundation Graduate Research Assistant, Arizona State University, Tempe, AZ
2004 - 2009 NSF IGERT Graduate Research Assistant, Arizona State University, Tempe, AZ
2003 - 2004 NSF REU Undergraduate Research Assistant, The Evergreen State College, Olympia, WA

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Khusnutdinova D, Wadsworth B, Flores M, Beiler A, Reyes Cruz E, Zenkov Y, Moore G. Electrocatalytic Properties of Binuclear Cu(II) Fused Porphyrins for Hydrogen Evolution. ACS Catalysis. 2018 August 14; 8(10):9888-9898. Available from: <https://pubs.acs.org/doi/10.1021/acscatal.8b01776> DOI: 10.1021/acscatal.8b01776
2. Wadsworth B, Khusnutdinova D, Urbine J, Reyes A, Moore G. Expanding the Redox Range of Surface-Immobilized Metallocenes Using Molecular Interfaces. ACS Applied Materials & Interfaces. 2019 November 04; 12(3):3903-3911. Available from: <https://pubs.acs.org/doi/10.1021/acsami.9b15286> DOI: 10.1021/acsami.9b15286
3. Wadsworth B, Beiler A, Khusnutdinova D, Reyes Cruz E, Moore G. Interplay between Light Flux, Quantum Efficiency, and Turnover Frequency in Molecular-Modified Photoelectrosynthetic Assemblies. Journal of the American Chemical Society. 2019 August 28; 141(40):15932-15941. Available from: <https://pubs.acs.org/doi/10.1021/jacs.9b07295> DOI: 10.1021/jacs.9b07295
4. Ardo S, et al. Pathways to electrochemical solar-hydrogen technologies. Energy & Environmental Science. 2018; 11(10):2768-2783. Available from: <http://xlink.rsc.org/?DOI=C7EE03639F> DOI: 10.1039/C7EE03639F

5. Wadsworth B, Khusnutdinova D, Moore G. Polymeric coatings for applications in electrocatalytic and photoelectrosynthetic fuel production. *Journal of Materials Chemistry A*. 2018; 6(44):21654-21665. Available from: <http://xlink.rsc.org/?DOI=C8TA05805A> DOI: 10.1039/C8TA05805A

Other Significant Products, Whether or Not Related to the Proposed Project

1. Wadsworth B, Beiler A, Khusnutdinova D, Jacob S, Moore G. Electrocatalytic and Optical Properties of Cobaloxime Catalysts Immobilized at a Surface-Grafted Polymer Interface. *ACS Catalysis*. 2016 November; 6(12):8048-8057. Available from: <https://pubs.acs.org/doi/10.1021/acscatal.6b02194> DOI: 10.1021/acscatal.6b02194
2. Faunce T, Lubitz W, Rutherford A, MacFarlane D, Moore G, Yang P, Nocera D, Moore T, Gregory D, Fukuzumi S, Yoon K, Armstrong F, Wasielewski M, Styring S. Energy and environment policy case for a global project on artificial photosynthesis. *Energy & Environmental Science*. 2013; 6(3):695-. Available from: <http://xlink.rsc.org/?DOI=c3ee00063j> DOI: 10.1039/c3ee00063j
3. Khusnutdinova D, Beiler A, Wadsworth B, Jacob S, Moore G. Metalloporphyrin-modified semiconductors for solar fuel production. *Chemical Science*. 2017; 8(1):253-259. Available from: <http://xlink.rsc.org/?DOI=C6SC02664H> DOI: 10.1039/C6SC02664H
4. Krawicz A, Yang J, Anzenberg E, Yano J, Sharp I, Moore G. Photofunctional Construct That Interfaces Molecular Cobalt-Based Catalysts for H₂ Production to a Visible-Light-Absorbing Semiconductor. *Journal of the American Chemical Society*. 2013 July 31; 135(32):11861-11868. Available from: <https://pubs.acs.org/doi/10.1021/ja404158r> DOI: 10.1021/ja404158r
5. Beiler A, Khusnutdinova D, Jacob S, Moore G. Solar Hydrogen Production Using Molecular Catalysts Immobilized on Gallium Phosphide (111)A and (111)B Polymer-Modified Photocathodes. *ACS Applied Materials & Interfaces*. 2016 April 07; 8(15):10038-10047. Available from: <https://pubs.acs.org/doi/10.1021/acsami.6b01557> DOI: 10.1021/acsami.6b01557

(d) SYNERGISTIC ACTIVITIES

1. Co-organized the 29th Winter Inter-American Photochemical Society Conference, which brought together leading scientists in all areas of the photochemical sciences, from North and South America (2020)
2. Organizer of the 2019 Gordon Research Conference on Photosynthesis Power Hour™ Session on transforming the culture of science by raising awareness of the challenges women and underrepresented minorities face in science (2019)
3. Session chair at the Doing Research in Indian County Conference, which brought together ~100 guests, including students, faculty, and leaders affiliated with local tribal communities, to discuss strategies for promoting the integration of students, research, and workforce training with, for, and by tribal members (2018)
4. Hosted the Running on Sun Internship (ROSI) program at Arizona State University, a National Science Foundation funded project providing internships for developing scientists through the Phoenix Preparatory Academy, which is composed almost entirely of underserved groups (2017-current)
5. Worked with the Tempe Center for the Arts and Arizona artist Jose Benavides on a project regarding bioinspired research and the use of art to convey scientific concepts to the general public (2017)