

**Zhenxing Feng**

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**EDUCATION**

2011 **Ph.D.**, Materials Science and Engineering, Northwestern University, IL, USA  
2006 **M.S.**, Physics, McGill University, Montreal, Canada  
2004 **B.S.**, Physics, Peking University, Beijing, China

**PROFESSIONAL APPOINTMENTS**

2021-now **Associate Professor**, School of Chemical, Biological, and Environmental Engineering (CBEE), Oregon State University, Corvallis, Oregon, USA  
2022-now **Advisory Committee**, Pacific Northwest Hydrogen Association, USA  
2022-now **Vice President and Chief Technology Officer**, MemPro USA Ltd, USA  
2021-now **Technical Advisory Committee** for Oregon Department of Energy on Renewable Hydrogen, Salem, Oregon, USA  
2016-2021 **Assistant Professor**, School of CBEE, Oregon State University, USA  
2017 **Callahan Faculty Scholar** in Chemical Engineering, Oregon State University, USA  
2013-2016 **Postdoctoral Fellow**, Joint Center for Energy Storage Research (JCESR), Argonne National Laboratory, with Dr. Paul Fenter  
2011-2013 **Postdoctoral Associate**, Department of Mechanical Engineering, Massachusetts Institute of Technology, advised by Prof. Yang Shao-Horn

**AWARDS AND HONORS**

2023 Office of Naval Research (ONR) Summer Fellowship, USA  
2022 2022 Clarivate Highly Cited Researcher in Cross-Field  
2022 Office of Naval Research (ONR) Summer Fellowship, USA  
2021 Action Research Scholar, an NSF-funded program, USA  
2018 Scialog: Advanced Energy Storage Award, USA  
2017 – 2019 Scialog Fellow, Research Corporation for Science Advancement, USA  
2017 Callahan Faculty Scholar, Oregon State University, USA  
2007 – 2011 Richter Memorial Funds Scholarship, Northwestern University, USA  
2006 – 2007 Walter P. Murphy Fellowship, Northwestern University, USA  
2005 – 2006 McGill Graduate Studies Fellowship, McGill University, Canada  
2004 Outstanding Graduate with Honors, Peking University, China  
2003 Tri-A Student, Peking University, China  
2002 – 2003 President's Undergraduate Research Fellowship, Peking University, China

**PATENTS**

1. PCT/US Patent No. 22/051987, “Catalyst and Methods for Making and Using” December 2022.

**PUBLICATIONS: 133 in total, H-index: 57; See the separated publication lists.**

**SYNERGISTIC ACTIVITIES****Professional Leadership**

**Lead Organizer 2023** MRS Fall Meeting *Symposium EN10: From Single Atom to Device: Interfaces under Electrochemical Conditions*, Boston, MA, USA

**Chair, Pacific Northwest Chapter of American Vacuum Society (PNWAVS), 2020-2021**

**Organizing Chair, 2021** annual meeting of PNWAVS, Corvallis, OR, USA

**Lead Organizer 2021** MRS Spring Symposium EN10: *Transformation, Reaction and Organization at Functional Interfaces for Sustainable Energy Systems and Environmental Managements*, Seattle, USA

**Lead Organizer 2019** MRS Spring Meeting Symposium ES03: *Electrochemical Energy Materials Under Extreme Conditions*, Phoenix, AZ, USA

**Lead Organizer 2018** MRS Spring Meeting *Symposium EN20: Deposition, Transformation and Reaction at Functional Interfaces for Electrochemical Energy Systems*, Phoenix, USA

**Lead Organizing Chair**, *Energy Storage 2017* Conference, Corvallis, OR, USA

**Organizer for 4 Technical Symposia** including:

**2021** Materials Challenges in Alternative & Renewable Energy (MCARE) Symposium *Materials for Solar Fuel Production and Applications*

**2019** XXVIII International Materials Research Congress (IMRC) Symposium D5 *In-situ/Operando Characterizations of Materials for Energy Applications*

**2018** 256<sup>th</sup> ACS Fall Meeting Session *Role of Water & Solvent in Heterogeneous Catalysis*

**2018** Pacific Coast Catalysis Society Meeting in Corvallis, Oregon.

**Session Chair for 9 Technical Symposia** including:

**2019** AIChE Annual Fall Meeting: *Fundamentals of Catalysis II: C1 Chemistry*

**2019** XXVIII International Materials Research Congress (IMRC) *Symposium D5: In-situ/Operando Characterizations of Materials for Energy Applications*

**2019** 235<sup>th</sup> ECS Meeting *Symposium I01: Hydrogen or Oxygen Evolution Catalysis for Water Electrolysis*

**2019** MRS Spring Meeting *Symposium CP03: Advances in in situ Techniques for Diagnostics and Synthetic Design of Energy Materials*

**2019** MRS Spring Meeting *Symposium ES03: Electrochemical Energy Materials Under Extreme Conditions*

**2018** MRS Spring Meeting *Symposium EN20: Deposition, Transformation and Reaction at Functional Interfaces for Electrochemical Energy Systems*

**2017** MRS Fall Meeting *Symposium TC: Design, Control and Advanced Characterization of Functional Defects in Materials*

**2016** PRiME/230<sup>th</sup> ECS Meeting *A03 Lithium-Ion Batteries*

**2016** 251<sup>st</sup> ACS Spring Meeting Session *Nanomaterials for Energy Conversion & Storage*

### Outreach

**SESEY 2019 and 2022:** Each SESEY year, host two high school students from underrepresented groups for one-week experiment at Oregon State University

**Organizer 2010:** Chicago High School, supervising ~ 60 high students for outreaching in fundamental physics and chemistry and acted as the science judge for high school posters.

### Professional Service and Review Activities

**Proposal Reviewer** for US National Science Foundation (NSF), Department of Energy (DOE), Beamtime Proposals for Stanford Synchrotron Radiation Lightsource and Advanced Photon Source, National Environmental Agency of Singapore, Canada Research Chairs, Czech Science Foundation, King Abdullah University of Science and Technology

**Journal Reference** for more than 70 journals including *Chemical Reviews*, *ACS Catalysis*, *Physical Review Letters*, *Nature Materials*, *Nature Catalysis*, *Nat. Commun.*, *Advanced Materials*, *Advanced Energy Materials*, *Advanced Functional Materials*, *Angew. Chem. Int. Ed.*, *Chemical Society Review*, *Energy Environ Sci*.

### SELECTED INVITED PRESENTATIONS

2023 “Fast Charging Ceramic Electrode Materials for Aqueous Sodium-Ion Batteries and Beyond”, **2023 ACS Spring meeting**, Indianapolis, IN, USA (March 28, 2023)

2022 “Restructuring of Electrocatalysts: *In-Situ* Synchrotron X-ray Studies”, **26<sup>th</sup> Canadian Symposium on Catalysis**, Vancouver, British Columbia, Canada (May 17, 2022)

2021 “Reducing Carbon Emission Using Efficiently Electrochemical Energy Storage and Conversion Systems”, **International Symposium on Opportunities and Challenges in the Context of “Double Carbon” and The Belt and Road Initiative**, Lanzhou, China (December 17, 2021)

2020 “Fast Charging Ceramic Anodes for Aqueous Sodium-Ion Batteries”, **Electronic Materials and Applications (EMA)**, Orlando, FL, USA (January 23, 2020)