Xingwen Yu (Ph.D.)

Google Scholar

- Seasoned professor, scientist, engineer, and entrepreneur with 20+ years of experience in electrochemical energy storage and conversion. Currently ranked among the Best 2,000 Scientists in Materials Science in the United States.
- Expertise spans batteries and fuel cells, from fundamental research in electrochemical materials to technology scale-up and manufacturing. Proven track record across academia and industry, bridging innovation and commercialization.
- Dedicated to teaching undergraduate and graduate courses to better prepare students for careers in science and engineering. Committed to integrating academic learning with industry-relevant skills.

EDUCATION

- **Ph.D.** (Materials Science & Engineering), Harbin Institute of Technology, China **1999**
- **M.S.** (Chemistry), Harbin Institute of Technology, China **1996**
- **B.S.** (Chemical Engineering), Shenyang University of Chemical Technology, China **1994**

PROFESSIONAL EXPERIENCE

- **Texas State University, San Marcos, TX, USA** **Associate Professor of Practice** **2026 – Present**
  * Teaching undergraduate and graduate classes
  * Managing a co-op and internship program
  * Networking with internal and external faculty members for collaborative research
- **YuSun Inc., San Marcos, TX, USA** **Founder/CEO/CTO** **2025 – 2025**
  * Developed and refined comprehensive business plans; took all aspects of the startup's operations
  * Developed grant proposals for STTR/SBIR applications
  * Networked with industry and academia partners
- **Cabot Corporation Inc., Billerica, MA, USA** **Lead Scientist** **2022 – 2025**
  * Managed/Led multiple R&D programs of Li-ion battery and fuel cell technologies
  * Oversaw the lab operation and improved lab work efficiency
  * Built and managed networks of external collaborations; interacted with customers
  * Led research proposals for funding applications (from DOE)
- **University of Louisiana, Lafayette, LA, USA** **Research Professor** **2022 – 2022**
  * Managed and conducted multiple DOE, NASA, and NSF-funded programs of solid-state Li batteries, redox flow batteries, and CO_2, CH_4, and H_2O electrolysis, as PI, Co-PI, or director
- **Blue Current Inc., Hayward, CA, USA** **Battery Engineer** **2021 – 2022**
  * Developed and scaled up a pouch cell operation process for a solid-state Li-ion battery technology - cell design, cell fabrication, and optimization of anode, cathode, and solid-electrolyte separator
- **The University of Texas, Austin, TX, USA** **Research Scientist/Teaching Faculty** **2013 – 2021**
  * Led/conducted multiple DOE, NSF, and industry-funded programs of Li-ion batteries, Li-S batteries, sodium-ion batteries, solid-state batteries, redox flow batteries, and fuel cells, as PI, Co-PI, or director
  * Wrote many proposals for research grant applications, with seven of them funded
  * Published 60+ papers in high-impact journals and established a world-leading publication record
  * Taught interdisciplinary graduate and undergraduate classes
- **Ambri Inc., Cambridge, MA, USA** **Process Engineer - Principal Engineer** **2011 – 2013**
  * Developed a pre-production pilot for a liquid metal battery technology from a research lab; prototype demo – process scale-up –pilot scale operation
  * Proposed and validated a battery concept that was implemented later by the company; won 4 patents
  * Assisted manufacturing engineers with battery module design and BMS development
  * Failure mode and effect analysis of single cells and battery modules
- **Brilliant Light Power Inc., Cranbury, NJ, USA** **Research Scientist** **2010 – 2011**
  * Prototype validation and performance evaluation of fuel cell/battery technologies

POSTGRADUATE RESEARCH WORK

- **Memorial University of Newfoundland, Canada** **Research Associate** **2007 – 2010**
- **The University of British Columbia, Canada** **Research Associate** **2007 – 2007**
- **University of Massachusetts, Boston, MA, USA** **Research Associate** **2005 – 2007**
- **National Research Council, Canada** **Research Associate** **2003 – 2005**
- **Max Planck Institute for Iron Research, Germany** **Research Associate** **2002 – 2003**
- **Institute of Physics, Chinese Academy of Sciences** **Research Associate** **2001 – 2001**
- **Institute of Metal Research, Chinese Academy of Sciences** **Research Associate** **1999 – 2001**

* Conducted many research programs in Li-ion batteries, alkaline batteries, fuel cells (PEMFCs, SOFCs), corrosion protection, surface modification, electro-catalysis, and in situ characterization
* Accumulated extensive knowledge, hands-on experimental experiences, and problem-solving skills
* Published 70+ peer-reviewed journal papers and established a strong publication record

TEACHING EXPERIENCE

- **Texas State University, San Marcos, TX, USA** **Associate Professor of Practice** **2026 – Present**
  - Engineering Chemistry (undergraduate, 1 session, 90 - 120 students)
  - Physical Chemistry (undergraduate, 1 session, 30 - 50 students)
  - Cooperative Education (undergraduate, 1 session, 10 -20 students)
  - Collaborative Research/Commercialization Experience (graduate, 1 session, 10 – 20 students)
- **The University of Texas, Austin, TX, USA** **Teaching Faculty** **2017 – 2021**
  - Introduction to Chemical Practice (undergraduate, 2 sessions, 30 – 40 students)
  - Electrochemical Energy Materials (graduate, 1 session, 10 – 20 students)

MENTORING/ADVISING EXPERIENCE IN ACADEMIA

- **University of Louisiana, Lafayette, LA, USA** **2022 – 2022**
  - Mentored 3 graduate students
  - Published 1 journal article and 5 conference presentations with them
- **University of Texas, Austin, TX, USA** **2013 – 2021**
  - Mentored 3 postdocs and 8 graduate students
  - Published 12 journal articles and many conference presentations with them
- **Memorial University of Newfoundland, Canada** **2007 – 2010**
  - Mentored 1 graduate student
  - Published 1 conference presentation with him
- **University of Massachusetts, Boston, MA, USA** **2005 – 2007**
  - Mentored 2 graduate students
  - Published 2 journal articles and 2 conference presentations with them

FUNDED RESEARCH GRANT (SINCE 2014)

- **Total amount:** $66.27 million (11 grants)
- **Research topics:** conventional Li-ion batteries, solid-state Li batteries, Li-S batteries, Na batteries, redox flow batteries, fuel cells, electrochemical energy materials, interfacial electrochemistry
- **Role:** PI, Co-PI, deputy director, senior personnel
- **Agencies:** DOE-BES, DOE-ARPA-E, DOE-EERE, DOE-MESC, NASA, ExxonMobil, Welch Foundation

- Grant 1: Department of Energy (DOE), Office of Manufacturing and Energy Supply Chains (MESC)
  Title: Development of a new U.S.-based manufacturing facility to produce battery-grade carbon nanotubes (CNTs) and conductive additive dispersions at commercial scale
  Total amount: $50,000,000 Time period: 2024 – 2029 Role: Personnel
- Grant 2: Department of Energy (DOE), Office of Energy Efficiency & Renewable Energy (EERE)
  Title: Scalable, Innovative Manufacturing Process for Novel Carbon Supports for Metal Catalysts for MDV/HDV PEM Fuel Cells
  Total amount: $7,500,000 Time period: 2024 – 2027 Role: Co-PI, director

- Grant 3: Department of Energy (DOE), Office of Energy Efficiency & Renewable Energy (EERE)
  Title: Low-cost, Chemistry-agnostic Process for Surface Modification of Cathode Active Materials Using Metal Oxide Nanoparticles
  Total amount: $900,000 Time period: 2023 – 2026 Role: PI
- Grant 4: National Aeronautics and Space Administration (NASA), Office of STEM Engagement
  Title: Development of Solid-State Electrolyte for Safe and Ultra-High-Capacity Batteries for NASA's Future Missions
  Total amount: $1,500,000 Time period: 2022 – 2025 Role: Co-PI, deputy director
- Grant 5: Department of Energy (DOE), Office of Basic Energy Science (BES)
  Title: Materials Electrochemistry for Next-Generation Energy Storage
  Total amount: $2,100,000 Time period: 2019 – 2022 Role: Co-PI, deputy director
- Grant 6 Exxon Mobil, UTEI Member-Directed Seed Fund
  Title: Nonaqueous Redox Flow Batteries with a Mediator-ion Solid Electrolyte
  Total amount: $200,000 Time period: 2019 – 2021 Role: PI
- Grant 7: The Welch Foundation, Catalyst for Discovery Program Grant
  Title: Membraneless Direct Liquid Fuel Cells Based on a Catalyst-Selective Strategy
  Total amount: $600,000 Time period: 2016 – 2019 Role: PI
- Grant 8: Department of Energy (DOE), Office of Energy Efficiency & Renewable Energy (EERE)
  Title: High Energy Lithium-Sulfur Batteries
  Total amount: $900,000 Time period: 2016 – 2019 Role: Senior personnel
- Grant 9: Department of Energy (DOE), Advanced Research Projects Agency-Energy (ARPA-E)
  Title: Solid-State Electrolytes for Lithium-based Batteries
  Total amount: $270,000 Time period: 2016 – 2017 Role: Co-PI, deputy director
- Grant 10: Department of Energy (DOE), Advanced Research Projects Agency-Energy (ARPA-E)
  Title: Stabilization of Lithium Anode with Advanced Anolytes for Hybrid Li-S Batteries
  Total amount: $350,000 Time period: 2014 – 2016 Role: Co-PI
- Grant 11: Department of Energy (DOE), Advanced Research Projects Agency-Energy (ARPA-E)
  Title: Advanced, Hybrid Planar Lithium/Sulfur Batteries
  Total amount: $950,000 Time period: 2014 – 2017 Role: Senior personnel

SKILLS & CERTIFICATES

- **Materials Synthesis:** wet chemical, sol-gel, solid-state, hydrothermal, solvothermal, organic synthesis
- **Materials Characterization:** XRD, SEM/EDS, XPS, TEM, ToF-SIMS, AES, XRF, EPMA, DSC/TGA
- **Electrochemical Techniques:** CV, EIS, RDE/RRDE, Potential Transients, Ultra-Fast Pulse
- **Analytical Chemistry:** MS, FTIR, UV/VIS, HPLC, GC/MS, ICP, NMR, Raman, BET
- **In-situ EC-SPM Characterization**: EC-STM/AFM, EC-FTIR, EC-SKP, SKPFM, EQCM
- **Electrochemical Surface Techniques:** electroplating, electrochemical polishing, electrochemical anodizing, electroless plating, and conversion coating
- **Certificates:** SolidWorks, Autodesk, Six Sigma (Green belt), FMEA, JMP-DOE, MATLAB, Minitab, Machine Learning, Python (non-programmer), Business Analysis, Market Research, Project Management, Executive Leadership

BATTERY ENGINEERING

- Prototype cell design, fabrication, and testing
- Process scale-up and optimization; failure mode and effect analysis (FMEA)
- Design and operation of battery modules
- Preproduction pilot manufacturing

PROFESSIONAL MEMBERSHIPS & SERVICES

- Active Member of ACS, ECS, and MRS
- Reviewer of the US Department of Energy (DOE)
- Editorial Board Member of "Energy Storage and Applications" (2026 – Present)

- Editorial Advisory Board Member of 'The Open Electrochemistry Journal,' 2009 - 2013
- Referee of Journals: (reviewed 500+ manuscripts for 50+ journals since 2001)

HONORS & AWARDS

- Best 2000 Scientists in Materials Science in the United States, Research.com, 2026
- Patent Awards of Ambri Inc., 2016, 2017, 2018, and 2019
- Natural Sciences & Engineering Research Council (NSERC, Canada) Fellowship, 2004
- Max-Planck-Society (Germany) Fellowship, 2003

IMPLEMENTED PATENTS (4)

- D. Bradwell, **X. Yu** et al. "Voltage-enhanced energy storage devices" *US Patent* 10,297,870 (2019), *US Patent* 9,876,258 (2018), *US Patent* 9,559,386 (2017), and *US Patent* 9,502,737 (2016).

PUBLICATIONS:

136 peer-reviewed journal papers (first author: 118), 3 book chapters, 12 proceedings papers, 100+ conference presentations/invited talks

Google Scholar: https://scholar.google.com/citations?user=q_Z7mhUAAAAJ&hl=en

Journal Impact Factor (IF) of My Publications - Summary Statistics

IF > 50	20 < IF < 50	10 < IF < 20	5 < IF < 10	IF < 5
2 journals, 2 papers	10 journals, 21 papers	14 journals, 26 papers	16 journals, 34 papers	20+ journals, 50+ papers

LIST of PUBLICATIONS:

Peer-Reviewed Journal Papers [IF: Journal Impact Factor] *The author is a Nobel Prize Laureate

Representative high-impact journals (IF ≥ 20): *Nature Review Materials (IF: 86), Electrochemical Energy Reviews (51), Joule (IF: 37), Energy & Environmental Science (IF: 33), Advanced Materials (IF: 30), Advanced Energy Materials (IF: 29), Chem (IF: 20), Account of Chemical Research (IF: 20), Applied Catalysis B-Environmental (IF: 20), Energy Storage Materials (IF: 20), Advanced Functional Materials (IF: 20).*

136. **X. Yu**, Z. He, Z. Chen, S. Yildirim, K. Smith, J. Wu, A. Manthiram, S. Cao, Y. Wang, N. Xu, P. Alpay, R. Maric, S. Sun, X. Zhou, "Solid-State Lithium Batteries with Liquid Additives: A Critical Review of Progress and Challenges," *Electrochemical Energy Reviews*, 9, 3 (2026). [IF: 51].
135. **X. Yu**, Z. He, Y. Wang, N. Xu, A. Manthiram, A. Virkar, X. Zhou, "Lithium deposition in solid-state electrolytes: Fundamental mechanisms, advanced characterization, and mitigation strategies," *APL Energy*, 3, 031501 (2025). [IF: 5].
134. C. Fetrow, C. Carugati, **X. Yu**, X. Zhou, S. Wei, "A Secondary Al–CO_2 Battery Enabled by Aluminum Iodide as a Homogeneous Redox Mediator," *ACS Applied Materials & Interfaces*, 15, 12908-12914 (2023). [IF: 10].
133. **X. Yu**, A. Manthiram, "Nonaqueous hybrid redox flow energy storage with a sodium–TEMPO chemistry and a single-ion solid electrolyte separator," *Energy Advances*, 1, 21-27 (2022). [IF: 6].
132. **X. Yu**, A. Manthiram, "A Review of Composite Polymer-Ceramic Electrolytes for Lithium Batteries," *Energy Storage Materials*, 34, 282-300 (2021). [IF: 20].
131. **X. Yu**, L. Xue, J.B. Goodenough,* A. Manthiram, "Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte," *Advanced Functional Materials*, 31, 2002144 (2021). [IF: 20].
130. **X. Yu**, Wiley A. Yu, A. Manthiram, "Advances and Prospects of High-Voltage Spinel Cathodes for Lithium-Based Batteries," *Small Methods*, 5, 202001196 (2021). [IF: 15].
129. **X. Yu**, Y. Liu, J.B. Goodenough,* A. Manthiram, "Rationally Designed PEGDA–LLZTO Composite Electrolyte for Solid-State Lithium Batteries," *ACS Applied Materials & Interfaces*, 13, 30703–30711 (2021). [IF: 10].
128. **X. Yu**, N.S. Grundish, J.B. Goodenough,* A. Manthiram, "Ionic Liquid (IL) Laden Metal–Organic

Framework (IL-MOF) Electrolyte for Quasi-Solid-State Sodium Batteries," *ACS Applied Materials & Interfaces*, 13, 24662–24669 (2021). [IF: 10].
127. N. Wang, X. Zhang, Z. Ju, **X. Yu**, Y. Wang, Y. Du, Z. Bai, S. Dou, G. Yu, "Thickness-independent scalable high-performance Li-S batteries with high areal sulfur loading via electron-enriched carbon framework," *Nature Communications*, 12, 4519 (2021). [IF: 18].
126. **X. Yu**, A. Manthiram, "Sustainable batteries for next-generation electrical energy storage," *Advanced Energy & Sustainability Research*, 2, 2000102 (2021). [IF: 6].
125. **X. Yu**, L. Xue, J.B. Goodenough,* A. Manthiram, "All-Solid-State Sodium Batteries with a Polyethylene Glycol Diacrylate–$Na_3Zr_2Si_2PO_{12}$ Composite Electrolyte," *Advanced Energy & Sustainability Research*, 2, 2000061 (2021). [IF: 6].
124. **X. Yu**, A. Manthiram, "Accessing a high-voltage nonaqueous hybrid flow battery with a sodium-methylphenothiazine chemistry and a sodium-ion solid electrolyte," *Energy Storage*, 3, e281 (2021). [IF: 4.7].
123. **X. Yu**, H. Wu, J.H. Koo, A. Manthiram, "Tailoring the Pore Size of a Polypropylene Separator with a Polymer having Intrinsic Nanoporosity for Suppressing the Polysulfide Shuttle in Lithium-Sulfur Batteries," *Advanced Energy Materials*, 10, 1902872 (2020). [IF: 29].
122. **X. Yu**, A. Manthiram, "A Progress Report on Metal-Sulfur Batteries," *Advanced Functional Materials*, 30, 2004084 (2020). [IF: 19].
121. **X. Yu**, Wiley A. Yu, A. Manthiram, "An Asymmetric Electrolyte Approach for the Enhancement of Energy Density of a Novel Nitrobenzene - Iodine (NB – I_2) Nonaqueous Redox Flow Battery with a Mediator-ion Solid Electrolyte," *Energy Storage Materials*, 5, 266-272 (2020). [IF: 20].
120. **X. Yu**, Wiley A. Yu, A. Manthiram, "A Unique Single-ion Mediation Approach for Crossover-free Nonaqueous Redox Flow Batteries with a Na^+-ion Solid Electrolyte," *Small Methods*, 4, 1900697 (2020). [IF: 15].
119. P. Chiochan, **X. Yu**, A. Manthiram, "A Metal Organic Framework (MOF) – Derived Solid Electrolyte for Lithium-Sulfur Batteries," *Advanced Energy Materials*, 10, 2001285 (2020). [IF: 29].
118. **X. Yu**, Wiley A. Yu, A. Manthiram, "A High Energy, Single-ion Mediated Nonaqueous Zinc-TEMPO Redox Flow Battery," *ACS Applied Materials & Interfaces*, 12, 48654–48661 (2020). [IF: 10].
117. **X. Yu**, J. Li, A. Manthiram, "Rational Design of a Laminated Copolymer/Polymer-ceramic Composite Electrolyte for High-voltage All-solid-state Lithium Batteries," *ACS Materials Letters*, 2, 317-324 (2020). [IF: 11].
116. **X. Yu**, A. Manthiram, "Recent Advances in Lithium Carbon Dioxide (Li-CO_2) Batteries," *Small Structures*, 1, 2000027 (2020). [IF: 11].
115. **X. Yu**, A. Manthiram, "A Long-cycle-life All-solid-state Lithium Battery with a Ceramic-polymer Composite Electrolyte," *ACS Applied Energy Materials*, 3, 2916-2924 (2020). [IF: 6].
114. S. Agarwal, **X. Yu**, A. Manthiram, "A Pair of Metal-Organic Framework (MOF) - Derived Oxygen Reduction Reaction (ORR) and Oxygen Evolution Reaction (OER) Catalysts for Zinc – Air Batteries," *Materials Today Energy*, 16, 100405 (2020). [IF: 9].
113. **X. Yu**, A. Manthiram, "Sodium-sulfur (Na-S) Batteries with a Polymer-coated NASICON-type Sodium-ion Solid Electrolyte," *Matter*, 1, 439-451 (2019). [IF: 19].
112. **X. Yu**, L. Xue, J.B. Goodenough,* A. Manthiram, "A High-Performance All-solid-state Sodium Battery with a Poly(ethylene oxide) - $Na_3Zr_2Si_2PO_{12}$ Composite Electrolyte," *ACS Materials Letters*, 1, 132-138 (2019). [IF: 11].
111. **X. Yu**, M. Boyer, G. Hwang, A. Manthiram, "Toward a Reversible Calcium-Sulfur Battery with a Lithium-ion Mediation Approach," *Advanced Energy Materials*, 9, 1803794 (2019). [IF: 29].
110. **X. Yu**, A. Manthiram, "Enhanced Interfacial Stability of Hybrid-Electrolyte Lithium-Sulfur Batteries with a Layer of Multifunctional Polymer with Intrinsic Nanoporosity," *Advanced Functional Materials*, 29, 1805996 (2019). [IF: 19].
109. **X. Yu**, A. Manthiram, "Electrode-Electrolyte Interfaces in Lithium-Based Batteries," *Energy and Environmental Science*, 11, 527-543 (2018). [IF: 39]
108. **X. Yu**, M. Boyer, G. Hwang, A. Manthiram, "Room-temperature Aluminium-sulfur Batteries with

a Lithium-ion-mediated Ionic Liquid Electrolyte," *Chem,* 4, 586-598 (2018). [IF: 25]

107. **X. Yu**, A. Manthiram, "Towards Reversible Room-temperature Calcium-ion Batteries," *Chem*, 4, 1200-1202 (2018). [IF: 25].
106. **X. Yu**, A. Manthiram, "Electrochemical Energy Storage with an Aqueous Zinc-Quinone Chemistry Enabled by a Mediator-ion Solid Electrolyte," *ACS Applied Energy Materials*, 1, 273-277 (2018). [IF: 6].
105. **X. Yu**, A. Manthiram, "Electrochemical Energy Storage with an Aqueous Quinone-Air Chemistry," *ACS Applied Energy Materials*, 1, 2424-2428 (2018). [IF: 6].
104. **X. Yu**, A. Manthiram, "Reversible Nonaqueous Room-temperature Potassium-sulfur Chemistry for Electrochemical Energy Storage," *Energy Storage Materials*, 15, 368-373 (2018). [IF: 20].
103. **X. Yu**, A. Manthiram, "An Aqueous Methyl Viologen-Air Battery Enabled by Electrolyte Manipulation," *Sustainable Energy & Fuels*, 2, 1452-1457 (2018). [IF: 6].
102. **X. Yu**, A. Manthiram, "Scalable Membraneless Direct Liquid Fuel Cells Based on a Catalyst-selective Strategy," *Energy and Environmental Materials*, 1, 13-19 (2018). [IF: 15].
101. **X. Yu**, S. Feng, A. Manthiram, "Polysulfide Control in Lithium Sulfur (Li-S) Batteries with a Special Membrane Separator based on a Polymer of Intrinsic Microporosity," *Materials Today Energy*, 7, 98-104 (2018). [IF: 9].
100. **X. Yu**, L. Cheng, Y. Liu, A. Manthiram, "A Membraneless Direct Isopropanol Fuel Cell (DIPAFC) Developed with a Catalyst-Selective Operating Principle," *Journal of Physical Chemistry C*, 122, 13558-13563 (2018). [IF: 4].
099. Z. Zhao-Karger, R. Liu, W. Dai, Z. Li, T. Diemant, V. B. Parambatha, C. B. Minella, **X. Yu**, A. Manthiram, R. J. Behm, M. Ruben, M. Fichtner, "Towards highly reversible magnesium-sulfur batteries with efficient and practical $Mg[B(hfip)_4]_2$ electrolyte," *ACS Energy Letters*, 3, 2005-2013 (2018). [IF: 24]
098. **X. Yu**, A. Manthiram, "Electrode-Electrolyte Interfaces in Lithium-Sulfur Batteries with Liquid or Inorganic Solid Electrolytes," *Accounts of Chemical Research* 50, 2653-2660 (2017). [IF: 24].
097. **X. Yu**, A. Manthiram, "Electrochemical Energy Storage with a Reversible Non-Aqueous Room-Temperature Aluminium-Sulfur (Al-S) Chemistry," *Advanced Energy Materials* 7, 1700561 (2017). [IF: 29]
096. **X. Yu**, M. Gross, S. Wang, A. Manthiram, "Aqueous Electrochemical Energy Storage with a Mediator-Ion Solid Electrolyte," *Advanced Energy Materials* 7, 1602454 (2017). [IF: 29]
095. S. An, **X. Yu**, A. Manthiram, "Wiring" Fe-N*x*-Embedded Porous Carbon Framework onto 1D Nanotubes for Efficient Oxygen Reduction Reaction in Alkaline and Acidic Media," *Advanced Materials* 29, 1606534 (2017). [IF: 32]
094. **X. Yu**, A. Manthiram, "A Voltage-Enhanced, Low-Cost Aqueous Iron-Air Battery Enabled with a Mediator-Ion Solid Electrolyte," *ACS Energy Letters* 2, 1050-1055 (2017). [IF: 24]
093. A. Manthiram, **X. Yu**, S. Wang, "Lithium Battery Chemistries Enabled by Solid-State Electrolytes," *Nature Reviews Materials* 2, 16103 (2017). [IF: 76]
092. **X. Yu**, A. Manthiram, "A Mediator-ion Solid Electrolyte Strategy for the Development of Next-generation Electrochemical Energy Storage Technologies," *Joule* 1, 453-462 (2017). [IF: 46]
091. **X. Yu**, A. Manthiram, "A Zinc-Cerium Cell for Energy Storage Using a Sodium-ion Exchange Membrane," *Advanced Sustainable Systems* 1, 1700082 (2017). [IF: 6]
090. **X. Yu**, A. Manthiram, "Ambient-temperature Energy Storage with Polyvalent Metal-Sulfur Chemistries," *Small Methods* 1, 1700217 (2017). [IF: 15]
089. S. Feng, J. Pang, **X. Yu**, G. Wang, A. Manthiram, "A High-Performance Semicrystalline Poly(Ether Ketone)-Based Proton Exchange Membrane," *ACS Applied Materials & Interfaces* 9, 24527–24537 (2017). [IF: 10]
088. **X. Yu**, Z. Bi, F. Zhao, A. Manthiram, "Polysulfide-shuttle Control in Lithium-Sulfur Batteries

with a Chemically/Electrochemically Compatible NASICON-Type Solid Electrolyte," *Advanced Energy Materials* 6, 1601392 (2016). [IF: 29]

087. **X. Yu**, J. Joseph, A. Manthiram, "Suppression of the Polysulfide-Shuttle Behavior in Li-S Batteries through the Development of a Facile Functional Group on the Polypropylene Separator," *Materials Horizons* 3, 314-319 (2016). [IF: 15]
086. **X. Yu**, A. Manthiram, "Sodium-Metal-Free, Ambient-Temperature Sodium-Sulfur Batteries with an Advanced Na_2S-Carbon Cathode and a Carbon-Coated Functional Nafion Separator," *Chemistry of Materials* 28, 896-905 (2016). [IF: 10]
085. **X. Yu**, A. Manthiram, "Performance Enhancement and Mechanistic Studies of Magnesium-Sulfur (Mg-S) Cells with an Advanced Cathode Structure," ACS *Energy Letters* 1, 431-437 (2016). [IF: 24]
084. **X. Yu**, E. Pascual, J. Wauson, A. Manthiram, "A Membraneless Alkaline Direct Liquid Fuel Cell (DLFC) Platform Developed with a Catalyst-Selective Strategy," *Journal of Power Sources* 331, 341-347 (2016). [IF: 9]
083. **X. Yu**, A. Manthiram, "Ambient-temperature Sodium-Sulfur Batteries with a Sodiated Nafion Membrane and a Carbon Nanofiber-Activated Carbon Composite Electrode," *Advanced Energy Materials* 5, 1500350 (2015). [IF: 29]
082. **X. Yu**, A. Manthiram, "Catalyst-selective, Scalable Membraneless Alkaline Direct Formate Fuel Cells," *Applied Catalysis B - Environmental* 165, 63-67 (2015). [IF: 24]
081. **X. Yu**, J. Joseph, A. Manthiram, "Polymer Lithium-Sulfur Batteries with a Nafion Membrane and an Advanced Sulfur Electrode," *Journal of Materials Chemistry A* 3, 15683-15691 (2015). [IF: 14]
080. **X. Yu**, Z. Bi, F. Zhao, A. Manthiram, "Hybrid Lithium-Sulfur Batteries with a Solid Electrolyte Membrane and Lithium Polysulfide Catholyte," *ACS Applied Materials & Interfaces* 7, 16625-16631 (2015). [IF: 10]
079. A. Manthiram, **X. Yu**, "Ambient Temperature Sodium-Sulfur Batteries," *Small* 11, 2108-2114 (2015). [IF: 15]
078. **X. Yu**, A. Manthiram, "$MnNiCoO_4$/N-MWCNT Nanocomposite Catalysts with High Selectivity in Membraneless Direct Formate Fuel Cells and Bifunctional Activity for Oxygen Electrochemistry," *Catalysis Science and Technology* 5, 2072-2075 (2015). [IF: 6]
077. **X. Yu**, A. Manthiram, "Na_2S-Carbon Nanotube Fabric Electrodes for Room Temperature Sodium-Sulfur Batteries," *Chemistry – A European Journal* 21, 4233-4237 (2015). [IF: 5]
076. **X. Yu**, A. Manthiram, "A class of Polysulfide Catholytes for Lithium–Sulfur Batteries: Energy Density, Cyclability, and Voltage Enhancement," *Physical Chemistry Chemical Physics*, 17, 2127-2136 (2015). [IF: 4]
075. **X. Yu**, A. Manthiram, "Highly Reversible Room-Temperature Sulfur/Long-Chain Sodium Polysulfide Batteries," *The Journal of Physical Chemistry Letters* 5, 1943-1947 (2014). [IF: 9]
074. **X. Yu**, A. Manthiram, "Room-Temperature Sodium-Sulfur Batteries with Liquid-Phase Sodium Polysulfide Catholytes and Binder-Free Multi-wall Carbon Nanotube (MWCNT) Fabric Electrodes," *Journal of Physical Chemistry C* 118, 22952-22959 (2014). [IF: 4]
073. **X. Yu**, A. Manthiram, "Capacity Enhancement and Discharge Mechanisms of Room-temperature Sodium-Sulfur Batteries," *ChemElectroChem* 1, 1275-1280 (2014). [IF: 4]
072. R. Mills, **X. Yu**, Y. Lu, G. Chu, J. He, J. Lotoski, "Catalyst Induced Hydrino Transition Electrochemical Cell," *International Journal of Energy Research* 38, 1741-1765 (2014). [IF: 5]
071. **X. Yu**, P. G. Pickup, "Co-deposited PtSb/C Catalysts for Direct Formic Acid Fuel Cells," *Journal of Power Sources* 196, 7951-7956 (2011). [IF: 9]
070. **X. Yu**, P. G. Pickup, "Carbon Supported PtBi Catalysts for Direct Formic Acid Fuel Cells," *Electrochimica Acta* 56, 4037-4043 (2011). [IF: 7]
069. **X. Yu**, P. G. Pickup, "Screening of Pd-M and Pt-M Catalysts in a Multi-anode Direct Formic Acid

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