# Yu Ding

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10665888/publications.pdf

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|---|---|---|---|
| 69 papers | 8,685 citations | 46918 47 h-index | 85405 71 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 9615 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Bioâ€Derived and Costâ€Effective Membranes with High Selectivity for Redox Flow Batteries Based on Hostâ€“Guest Chemistry. Small, 2022, 18, e2107055. | 5.2 | 6 |
| 2 | Liquid Alloy Enabled Solidâ€State Batteries for Conformal Electrodeâ€“Electrolyte Interfaces. Advanced Functional Materials, 2021, 31, 2010863. | 7.8 | 29 |
| 3 | Pulverizing Fe<sub>2</sub>O<sub>3</sub> Nanoparticles for Developing Fe<sub>3</sub>C/Nâ€Codoped Carbon Nanoboxes with Multiple Polysulfide Anchoring and Converting Activity in Liâ€S Batteries. Advanced Functional Materials, 2021, 31, 2011249. | 7.8 | 79 |
| 4 | Design Principles and Applications of Nextâ€Generation Highâ€Energyâ€Density Batteries Based on Liquid Metals. Advanced Materials, 2021, 33, e2100052. | 11.1 | 38 |
| 5 | Novel Quasiâ€Liquid Kâ€Na Alloy as a Promising Dendriteâ€Free Anode for Rechargeable Potassium Metal Batteries. Advanced Science, 2021, 8, e2101866. | 5.6 | 18 |
| 6 | Anode Materials: Design Principles and Applications of Nextâ€Generation Highâ€Energyâ€Density Batteries Based on Liquid Metals (Adv. Mater. 29/2021). Advanced Materials, 2021, 33, 2170226. | 11.1 | 1 |
| 7 | High-performance room-temperature sodiumâ€“sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. Energy and Environmental Science, 2020, 13, 562-570. | 15.6 | 163 |
| 8 | Hierarchically Porous C/Fe<sub>3</sub>C Membranes with Fast Ion-Transporting Channels and Polysulfide-Trapping Networks for High-Areal-Capacity Liâ€“S Batteries. Nano Letters, 2020, 20, 701-708. | 4.5 | 72 |
| 9 | Low-Temperature Multielement Fusible Alloy-Based Molten Sodium Batteries for Grid-Scale Energy Storage. ACS Central Science, 2020, 6, 2287-2293. | 5.3 | 21 |
| 10 | Reversible redox chemistry in azobenzene-based organic molecules for high-capacity and long-life nonaqueous redox flow batteries. Nature Communications, 2020, 11, 3843. | 5.8 | 76 |
| 11 | Redistributing Liâ€Ion Flux by Parallelly Aligned Holey Nanosheets for Dendriteâ€Free Li Metal Anodes. Advanced Materials, 2020, 32, e2003920. | 11.1 | 81 |
| 12 | Reversible Deposition of Lithium Particles Enabled by Ultraconformal and Stretchable Graphene Film for Lithium Metal Batteries. Advanced Materials, 2020, 32, e2005763. | 11.1 | 64 |
| 13 | Scalable High-Areal-Capacity Liâ€“S Batteries Enabled by Sandwich-Structured Hierarchically Porous Membranes with Intrinsic Polysulfide Adsorption. Nano Letters, 2020, 20, 6922-6929. | 4.5 | 47 |
| 14 | Roomâ€Temperature Allâ€Liquidâ€Metal Batteries Based on Fusible Alloys with Regulated Interfacial Chemistry and Wetting. Advanced Materials, 2020, 32, e2002577. | 11.1 | 102 |
| 15 | When graphite meets Li metal. National Science Review, 2020, 7, 1521-1522. | 4.6 | 3 |
| 16 | Next-Generation Liquid Metal Batteries Based on the Chemistry of Fusible Alloys. ACS Central Science, 2020, 6, 1355-1366. | 5.3 | 67 |
| 17 | A Ternary Hybridâ€Cation Roomâ€Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. Advanced Materials, 2020, 32, e2000316. | 11.1 | 40 |
| 18 | In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendriteâ€Free Alkaliâ€Metalâ€Ion Batteries. Angewandte Chemie, 2020, 132, 12268-12275. | 1.6 | 9 |

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|---|---|---|---|
| 19 | In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendriteâ€Free Alkaliâ€Metalâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12170-12177. | 7.2 | 41 |
| 20 | Pathways to Widespread Applications: Development of Redox Flow Batteries Based on New Chemistries. CheM, 2019, 5, 1964-1987. | 5.8 | 105 |
| 21 | Room-temperature liquid metal and alloy systems for energy storage applications. Energy and Environmental Science, 2019, 12, 2605-2619. | 15.6 | 122 |
| 22 | High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. ACS Nano, 2019, 13, 10612-10621. | 7.3 | 214 |
| 23 | A Liquidâ€Metalâ€Enabled Versatile Organic Alkaliâ€Ion Battery. Advanced Materials, 2019, 31, e1806956. | 11.1 | 99 |
| 24 | Conductive polymers for stretchable supercapacitors. Nano Research, 2019, 12, 1978-1987. | 5.8 | 217 |
| 25 | Redox Flow Batteries: Phenothiazineâ€Based Organic Catholyte for Highâ€Capacity and Longâ€Life Aqueous Redox Flow Batteries (Adv. Mater. 24/2019). Advanced Materials, 2019, 31, 1970175. | 11.1 | 3 |
| 26 | Phenothiazineâ€Based Organic Catholyte for Highâ€Capacity and Longâ€Life Aqueous Redox Flow Batteries. Advanced Materials, 2019, 31, e1901052. | 11.1 | 138 |
| 27 | A graphite intercalation compound associated with liquid Naâ€“K towards ultra-stable and high-capacity alkali metal anodes. Energy and Environmental Science, 2019, 12, 1989-1998. | 15.6 | 90 |
| 28 | Biredox Eutectic Electrolytes Derived from Organic Redoxâ€Active Molecules: Highâ€Energy Storage Systems. Angewandte Chemie - International Edition, 2019, 58, 7045-7050. | 7.2 | 82 |
| 29 | Biredox Eutectic Electrolytes Derived from Organic Redoxâ€Active Molecules: Highâ€Energy Storage Systems. Angewandte Chemie, 2019, 131, 7119-7124. | 1.6 | 19 |
| 30 | Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. Energy and Environmental Science, 2019, 12, 3370-3379. | 15.6 | 55 |
| 31 | An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 6181-6184. | 1.6 | 149 |
| 32 | An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 6073-6076. | 7.2 | 568 |
| 33 | Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. Energy Storage Materials, 2018, 15, 46-52. | 9.5 | 203 |
| 34 | Enabling Graphene-Oxide-Based Membranes for Large-Scale Energy Storage by Controlling Hydrophilic Microstructures. CheM, 2018, 4, 1035-1046. | 5.8 | 65 |
| 35 | Molecular engineering of organic electroactive materials for redox flow batteries. Chemical Society Reviews, 2018, 47, 69-103. | 18.7 | 442 |
| 36 | Gradientâ€Distributed Metalâ€“Organic Frameworkâ€“Based Porous Membranes for Nonaqueous Redox Flow Batteries. Advanced Energy Materials, 2018, 8, 1802533. | 10.2 | 70 |

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|---|---|---|---|
| 37 | Highly Concentrated Phthalimide-Based Anolytes for Organic Redox Flow Batteries with Enhanced Reversibility. CheM, 2018, 4, 2814-2825. | 5.8 | 105 |
| 38 | Insights into Hydrotropic Solubilization for Hybrid Ion Redox Flow Batteries. ACS Energy Letters, 2018, 3, 2641-2648. | 8.8 | 54 |
| 39 | A Selfâ€Healing Roomâ€Temperature Liquidâ€Metal Anode for Alkaliâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1804649. | 7.8 | 147 |
| 40 | RÃ¼cktitelbild: An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions (Angew. Chem. 21/2018). Angewandte Chemie, 2018, 130, 6462-6462. | 1.6 | 0 |
| 41 | Eutectic Electrolytes for High-Energy-Density Redox Flow Batteries. ACS Energy Letters, 2018, 3, 2875-2883. | 8.8 | 95 |
| 42 | Defect Engineering Metalâ€Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 10403-10407. | 1.6 | 139 |
| 43 | Defect Engineering Metalâ€Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 10246-10250. | 7.2 | 619 |
| 44 | Solar-Powered Redox Cells: Efficient Solar Energy Harvesting and Storage through a Robust Photocatalyst Driving Reversible Redox Reactions (Adv. Mater. 31/2018). Advanced Materials, 2018, 30, 1870229. | 11.1 | 1 |
| 45 | Efficient Solar Energy Harvesting and Storage through a Robust Photocatalyst Driving Reversible Redox Reactions. Advanced Materials, 2018, 30, e1802294. | 11.1 | 43 |
| 46 | Progress and prospects of next-generation redox flow batteries. Energy Storage Materials, 2018, 15, 324-350. | 9.5 | 239 |
| 47 | A Conductive Molecular Framework Derived Li<sub>2</sub>S/N,Pâ€Codoped Carbon Cathode for Advanced Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602876. | 10.2 | 258 |
| 48 | MolekÃ¼lâ€Engineering: das Versprechen umweltvertrÃglicher Redoxâ€Flowâ€Batterien. Angewandte Chemie, 2017, 129, 8738-8740. | 1.6 | 11 |
| 49 | A Sustainable Redoxâ€Flow Battery with an Aluminumâ€Based, Deepâ€Eutecticâ€Solvent Anolyte. Angewandte Chemie - International Edition, 2017, 56, 7454-7459. | 7.2 | 121 |
| 50 | A Sustainable Redoxâ€Flow Battery with an Aluminumâ€Based, Deepâ€Eutecticâ€Solvent Anolyte. Angewandte Chemie, 2017, 129, 7562-7567. | 1.6 | 27 |
| 51 | An Allâ€Stretchableâ€Component Sodiumâ€Ion Full Battery. Advanced Materials, 2017, 29, 1700898. | 11.1 | 141 |
| 52 | The Promise of Environmentally Benign Redox Flow Batteries by Molecular Engineering. Angewandte Chemie - International Edition, 2017, 56, 8614-8616. | 7.2 | 54 |
| 53 | A Low-Cost and High-Energy Hybrid Iron-Aluminum Liquid Battery Achieved by Deep Eutectic Solvents. Joule, 2017, 1, 623-633. | 11.7 | 116 |
| 54 | A high-performance all-metallocene-based, non-aqueous redox flow battery. Energy and Environmental Science, 2017, 10, 491-497. | 15.6 | 189 |

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|---|---|---|---|
| 55 | Molecular Engineering Enables Better Organic Flow Batteries. CheM, 2017, 3, 917-919. | 5.8 | 43 |
| 56 | A Bioâ€Inspired, Heavyâ€Metalâ€Free, Dualâ€Electrolyte Liquid Battery towards Sustainable Energy Storage. Angewandte Chemie - International Edition, 2016, 55, 4772-4776. | 7.2 | 127 |
| 57 | A Bioâ€Inspired, Heavyâ€Metalâ€Free, Dualâ€Electrolyte Liquid Battery towards Sustainable Energy Storage. Angewandte Chemie, 2016, 128, 4850-4854. | 1.6 | 36 |
| 58 | Understanding the Size-Dependent Sodium Storage Properties of Na<sub>2</sub>C<sub>6</sub>O<sub>6</sub>-Based Organic Electrodes for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3329-3334. | 4.5 | 184 |
| 59 | In Situ Reactive Synthesis of Polypyrrole-MnO<sub>2</sub> Coaxial Nanotubes as Sulfur Hosts for High-Performance Lithiumâ€“Sulfur Battery. Nano Letters, 2016, 16, 7276-7281. | 4.5 | 271 |
| 60 | Exploring Bio-inspired Quinone-Based Organic Redox Flow Batteries: A Combined Experimental and Computational Study. CheM, 2016, 1, 790-801. | 5.8 | 203 |
| 61 | Durability of the Li<sub>1+x</sub>Ti<sub>2â€“x</sub>Al<sub>x</sub>(PO<sub>4</sub>)<sub>3</sub> Solid Electrolyte in Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2016, 1, 1080-1085. | 8.8 | 89 |
| 62 | Innentitelbild: A Bioâ€Inspired, Heavyâ€Metalâ€Free, Dualâ€Electrolyte Liquid Battery towards Sustainable Energy Storage (Angew. Chem. 15/2016). Angewandte Chemie, 2016, 128, 4690-4690. | 1.6 | 0 |
| 63 | Nanostructured conductive polymers for advanced energy storage. Chemical Society Reviews, 2015, 44, 6684-6696. | 18.7 | 719 |
| 64 | A Membrane-Free Ferrocene-Based High-Rate Semiliquid Battery. Nano Letters, 2015, 15, 4108-4113. | 4.5 | 118 |
| 65 | Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. Nano Letters, 2015, 15, 7736-7741. | 4.5 | 227 |
| 66 | A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. Chemical Society Reviews, 2015, 44, 7968-7996. | 18.7 | 388 |
| 67 | Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. Chemical Communications, 2014, 50, 12959-12962. | 2.2 | 15 |
| 68 | A reversible Br<sub>2</sub>/Br<sup>â^’</sup> redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. Energy and Environmental Science, 2014, 7, 1990-1995. | 15.6 | 137 |
| 69 | Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. Angewandte Chemie - International Edition, 2014, 53, 11036-11040. | 7.2 | 133 |