

# Yu Ding

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70  
papers

6,239  
citations

41  
h-index

74  
g-index

74  
ext. papers

7,530  
ext. citations

18.7  
avg, IF

6.52  
L-index

#	Paper	IF	Citations
70	Bio-Derived and Cost-Effective Membranes with High Selectivity for Redox Flow Batteries Based on Host-Guest Chemistry.. <i>Small</i> , <b>2022</b> , e2107055	11	
69	Design Principles and Applications of Next-Generation High-Energy-Density Batteries Based on Liquid Metals. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100052	24	16
68	Novel Quasi-Liquid K-Na Alloy as a Promising Dendrite-Free Anode for Rechargeable Potassium Metal Batteries. <i>Advanced Science</i> , <b>2021</b> , 8, e2101866	13.6	5
67	Anode Materials: Design Principles and Applications of Next-Generation High-Energy-Density Batteries Based on Liquid Metals (Adv. Mater. 29/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170226	24	
66	Liquid Alloy Enabled Solid-State Batteries for Conformal Electrode/Electrolyte Interfaces. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010863	15.6	10
65	Pulverizing Fe <sub>2</sub> O <sub>3</sub> Nanoparticles for Developing Fe <sub>3</sub> C/N-Codoped Carbon Nanoboxes with Multiple Polysulfide Anchoring and Converting Activity in Li-S Batteries. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2011249	15.6	23
64	Room-Temperature All-Liquid-Metal Batteries Based on Fusible Alloys with Regulated Interfacial Chemistry and Wetting. <i>Advanced Materials</i> , <b>2020</b> , 32, e2002577	24	48
63	When graphite meets Li metal. <i>National Science Review</i> , <b>2020</b> , 7, 1521-1522	10.8	0
62	Next-Generation Liquid Metal Batteries Based on the Chemistry of Fusible Alloys. <i>ACS Central Science</i> , <b>2020</b> , 6, 1355-1366	16.8	30
61	High-performance room-temperature sodium/sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 562-570	35.4	98
60	Hierarchically Porous C/FeC Membranes with Fast Ion-Transporting Channels and Polysulfide-Trapping Networks for High-Areal-Capacity Li-S Batteries. <i>Nano Letters</i> , <b>2020</b> , 20, 701-708	11.5	44
59	Low-Temperature Multielement Fusible Alloy-Based Molten Sodium Batteries for Grid-Scale Energy Storage. <i>ACS Central Science</i> , <b>2020</b> , 6, 2287-2293	16.8	12
58	Reversible redox chemistry in azobenzene-based organic molecules for high-capacity and long-life nonaqueous redox flow batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 3843	17.4	41
57	Redistributing Li-Ion Flux by Parallely Aligned Holey Nanosheets for Dendrite-Free Li Metal Anodes. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003920	24	43
56	Reversible Deposition of Lithium Particles Enabled by Ultraconformal and Stretchable Graphene Film for Lithium Metal Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e2005763	24	35
55	Scalable High-Areal-Capacity Li-S Batteries Enabled by Sandwich-Structured Hierarchically Porous Membranes with Intrinsic Polysulfide Adsorption. <i>Nano Letters</i> , <b>2020</b> , 20, 6922-6929	11.5	22
54	A Ternary Hybrid-Cation Room-Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000316	24	26

53	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 12268-12275	3.6	8
52	In Situ Formation of Liquid Metals via Galvanic Replacement Reaction to Build Dendrite-Free Alkali-Metal-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 12170-12177	16.4	23
51	High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. <i>ACS Nano</i> , <b>2019</b> , 13, 10612-10621	16.7	129
50	A Liquid-Metal-Enabled Versatile Organic Alkali-Ion Battery. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806956	24	70
49	Conductive polymers for stretchable supercapacitors. <i>Nano Research</i> , <b>2019</b> , 12, 1978-1987	10	109
48	Redox Flow Batteries: Phenothiazine-Based Organic Catholyte for High-Capacity and Long-Life Aqueous Redox Flow Batteries (Adv. Mater. 24/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970175	24	2
47	Phenothiazine-Based Organic Catholyte for High-Capacity and Long-Life Aqueous Redox Flow Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901052	24	76
46	A graphite intercalation compound associated with liquid NaK towards ultra-stable and high-capacity alkali metal anodes. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1989-1998	35.4	63
45	Biredox Eutectic Electrolytes Derived from Organic Redox-Active Molecules: High-Energy Storage Systems. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 7045-7050	16.4	54
44	Biredox Eutectic Electrolytes Derived from Organic Redox-Active Molecules: High-Energy Storage Systems. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 7119-7124	3.6	14
43	Pathways to Widespread Applications: Development of Redox Flow Batteries Based on New Chemistries. <i>CheM</i> , <b>2019</b> , 5, 1964-1987	16.2	69
42	Room-temperature liquid metal and alloy systems for energy storage applications. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2605-2619	35.4	69
41	Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3370-3379	35.4	31
40	An Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6181-6184	3.6	107
39	An Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 6073-6076	16.4	443
38	Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 46-52	19.4	139
37	Enabling Graphene-Oxide-Based Membranes for Large-Scale Energy Storage by Controlling Hydrophilic Microstructures. <i>CheM</i> , <b>2018</b> , 4, 1035-1046	16.2	50
36	Molecular engineering of organic electroactive materials for redox flow batteries. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 69-103	58.5	305

35	Solar-Powered Redox Cells: Efficient Solar Energy Harvesting and Storage through a Robust Photocatalyst Driving Reversible Redox Reactions (Adv. Mater. 31/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870229	24	1
34	Efficient Solar Energy Harvesting and Storage through a Robust Photocatalyst Driving Reversible Redox Reactions. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802294	24	33
33	Progress and prospects of next-generation redox flow batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 324-350	19.4	164
32	Gradient-Distributed Metal-Organic Framework-Based Porous Membranes for Nonaqueous Redox Flow Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802533	21.8	47
31	Highly Concentrated Phthalimide-Based Anolytes for Organic Redox Flow Batteries with Enhanced Reversibility. <i>Chem</i> , <b>2018</b> , 4, 2814-2825	16.2	65
30	Insights into Hydrotropic Solubilization for Hybrid Ion Redox Flow Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2641-2648	20.1	37
29	A Self-Healing Room-Temperature Liquid-Metal Anode for Alkali-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804649	15.6	89
28	Reaktitelbild: An Amorphous Noble-Metal-Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions (Angew. Chem. 21/2018). <i>Angewandte Chemie</i> , <b>2018</b> , 130, 6462-6462	3.6	
27	Eutectic Electrolytes for High-Energy-Density Redox Flow Batteries. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2875-2881	16.1	69
26	Defect Engineering Metal-Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10403-10407	3.6	86
25	Defect Engineering Metal-Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10246-10250	16.4	456
24	A Conductive Molecular Framework Derived Li <sub>2</sub> S/N,P-Codoped Carbon Cathode for Advanced Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602876	21.8	212
23	Molekül-Engineering: das Versprechen umweltverträglicher Redox-Flow-Batterien. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 8738-8740	3.6	9
22	A Sustainable Redox-Flow Battery with an Aluminum-Based, Deep-Eutectic-Solvent Anolyte. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 7454-7459	16.4	101
21	A Sustainable Redox-Flow Battery with an Aluminum-Based, Deep-Eutectic-Solvent Anolyte. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 7562-7567	3.6	21
20	An All-Stretchable-Component Sodium-Ion Full Battery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1700898	24	114
19	The Promise of Environmentally Benign Redox Flow Batteries by Molecular Engineering. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 8614-8616	16.4	48
18	A Low-Cost and High-Energy Hybrid Iron-Aluminum Liquid Battery Achieved by Deep Eutectic Solvents. <i>Joule</i> , <b>2017</b> , 1, 623-633	27.8	88

17	A high-performance all-metallocene-based, non-aqueous redox flow battery. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 491-497	35.4	155
16	Molecular Engineering Enables Better Organic Flow Batteries. <i>CheM</i> , <b>2017</b> , 3, 917-919	16.2	33
15	In Situ Reactive Synthesis of Polypyrrole-MnO Coaxial Nanotubes as Sulfur Hosts for High-Performance Lithium-Sulfur Battery. <i>Nano Letters</i> , <b>2016</b> , 16, 7276-7281	11.5	236
14	Exploring Bio-inspired Quinone-Based Organic Redox Flow Batteries: A Combined Experimental and Computational Study. <i>CheM</i> , <b>2016</b> , 1, 790-801	16.2	160
13	Durability of the $\text{Li}_{1+x}\text{Ti}_2\text{Al}_x(\text{PO}_4)_3$ Solid Electrolyte in Lithium-Sulfur Batteries. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 1080-1085	20.1	67
12	Innentitelbild: A Bio-Inspired, Heavy-Metal-Free, Dual-Electrolyte Liquid Battery towards Sustainable Energy Storage (Angew. Chem. 15/2016). <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4690-4690	3.6	
11	A Bio-Inspired, Heavy-Metal-Free, Dual-Electrolyte Liquid Battery towards Sustainable Energy Storage. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 4772-6	16.4	119
10	A Bio-Inspired, Heavy-Metal-Free, Dual-Electrolyte Liquid Battery towards Sustainable Energy Storage. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 4850-4854	3.6	35
9	Understanding the Size-Dependent Sodium Storage Properties of $\text{Na}_2\text{C}_6\text{O}_6$ -Based Organic Electrodes for Sodium-Ion Batteries. <i>Nano Letters</i> , <b>2016</b> , 16, 3329-34	11.5	147
8	Nanostructured conductive polymers for advanced energy storage. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 6684-96	58.5	542
7	A Membrane-Free Ferrocene-Based High-Rate Semiliquid Battery. <i>Nano Letters</i> , <b>2015</b> , 15, 4108-13	11.5	110
6	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. <i>Nano Letters</i> , <b>2015</b> , 15, 7736-41	11.5	178
5	A chemistry and material perspective on lithium redox flow batteries towards high-density electrical energy storage. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 7968-96	58.5	322
4	Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. <i>Chemical Communications</i> , <b>2014</b> , 50, 12959-62	5.8	12
3	A reversible $\text{Br}_2/\text{Br}^-$ redox couple in the aqueous phase as a high-performance catholyte for alkali-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 1990-1995	35.4	119
2	Sustainable electrical energy storage through the ferrocene/ferrocenium redox reaction in aprotic electrolyte. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 11036-40	16.4	118
1	Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 11216-11220	3.6	29