Yu Ding

List of Publications by Year in descending order

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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	Nanostructured conductive polymers for advanced energy storage. Chemical Society Reviews, 2015, 44, 6684-6696.	18.7	719
2	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
3	An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie - International Edition, 2018, 57, 6073-6076.	7.2	568
4	Molecular engineering of organic electroactive materials for redox flow batteries. Chemical Society Reviews, 2018, 47, 69-103.	18.7	442
5	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
6	In Situ Reactive Synthesis of Polypyrrole-MnO₂ Coaxial Nanotubes as Sulfur Hosts for High-Performance Lithiumâ€“Sulfur Battery. Nano Letters, 2016, 16, 7276-7281.	4.5	271
7	A Conductive Molecular Framework Derived Li₂S/N,Pâ€Codoped Carbon Cathode for Advanced Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602876.	10.2	258
8	Progress and prospects of next-generation redox flow batteries. Energy Storage Materials, 2018, 15, 324-350.	9.5	239
9	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. Nano Letters, 2015, 15, 7736-7741.	4.5	227
10	Conductive polymers for stretchable supercapacitors. Nano Research, 2019, 12, 1978-1987.	5.8	217
11	High-Performance Flexible Solid-State Asymmetric Supercapacitors Based on Bimetallic Transition Metal Phosphide Nanocrystals. ACS Nano, 2019, 13, 10612-10621.	7.3	214
12	Exploring Bio-inspired Quinone-Based Organic Redox Flow Batteries: A Combined Experimental and Computational Study. CheM, 2016, 1, 790-801.	5.8	203
13	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
14	A high-performance all-metallocene-based, non-aqueous redox flow battery. Energy and Environmental Science, 2017, 10, 491-497.	15.6	189
15	Understanding the Size-Dependent Sodium Storage Properties of Na₂C₆O₆-Based Organic Electrodes for Sodium-Ion Batteries. Nano Letters, 2016, 16, 3329-3334.	4.5	184
16	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
17	An Amorphous Nobleâ€Metalâ€Free Electrocatalyst that Enables Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 6181-6184.	1.6	149
18	A Selfâ€Healing Roomâ€Temperature Liquidâ€Metal Anode for Alkaliâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1804649.	7.8	147

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19	An Allâ€Stretchableâ€Component Sodiumâ€Ion Full Battery. Advanced Materials, 2017, 29, 1700898.	11.1	141
20	Defect Engineering Metalâ€Free Polymeric Carbon Nitride Electrocatalyst for Effective Nitrogen Fixation under Ambient Conditions. Angewandte Chemie, 2018, 130, 10403-10407.	1.6	139
21	Phenothiazineâ€Based Organic Catholyte for Highâ€Capacity and Longâ€Life Aqueous Redox Flow Batteries. Advanced Materials, 2019, 31, e1901052.	11.1	138
22	A reversible Br₂/Br^{â^'} 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
23	Sustainable Electrical Energy Storage through the Ferrocene/Ferrocenium Redox Reaction in Aprotic Electrolyte. Angewandte Chemie - International Edition, 2014, 53, 11036-11040.	7.2	133
24	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
25	Room-temperature liquid metal and alloy systems for energy storage applications. Energy and Environmental Science, 2019, 12, 2605-2619.	15.6	122
26	A Sustainable Redoxâ€Flow Battery with an Aluminumâ€Based, Deepâ€Eutecticâ€Solvent Anolyte. Angewandte Chemie - International Edition, 2017, 56, 7454-7459.	7.2	121
27	A Membrane-Free Ferrocene-Based High-Rate Semiliquid Battery. Nano Letters, 2015, 15, 4108-4113.	4.5	118
28	A Low-Cost and High-Energy Hybrid Iron-Aluminum Liquid Battery Achieved by Deep Eutectic Solvents. Joule, 2017, 1, 623-633.	11.7	116
29	Highly Concentrated Phthalimide-Based Anolytes for Organic Redox Flow Batteries with Enhanced Reversibility. CheM, 2018, 4, 2814-2825.	5.8	105
30	Pathways to Widespread Applications: Development of Redox Flow Batteries Based on New Chemistries. CheM, 2019, 5, 1964-1987.	5.8	105
31	Roomâ€Temperature Allâ€Liquidâ€Metal Batteries Based on Fusible Alloys with Regulated Interfacial Chemistry and Wetting. Advanced Materials, 2020, 32, e2002577.	11.1	102
32	A Liquidâ€Metalâ€Enabled Versatile Organic Alkaliâ€Ion Battery. Advanced Materials, 2019, 31, e1806956.	11.1	99
33	Eutectic Electrolytes for High-Energy-Density Redox Flow Batteries. ACS Energy Letters, 2018, 3, 2875-2883.	8.8	95
34	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
35	Durability of the Li_{1+x}Ti_{2â€“x}Al_x(PO₄)₃ Solid Electrolyte in Lithiumâ€“Sulfur Batteries. ACS Energy Letters, 2016, 1, 1080-1085.	8.8	89
36	Biredox Eutectic Electrolytes Derived from Organic Redoxâ€Active Molecules: Highâ€Energy Storage Systems. Angewandte Chemie - International Edition, 2019, 58, 7045-7050.	7.2	82

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37	Redistributing Liâ€Ion Flux by Parallelly Aligned Holey Nanosheets for Dendriteâ€Free Li Metal Anodes. Advanced Materials, 2020, 32, e2003920.	11.1	81
38	Pulverizing Fe₂O₃ Nanoparticles for Developing Fe₃C/Nâ€Codoped Carbon Nanoboxes with Multiple Polysulfide Anchoring and Converting Activity in Liâ€S Batteries. Advanced Functional Materials, 2021, 31, 2011249.	7.8	79
39	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
40	Hierarchically Porous C/Fe₃C 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
41	Gradientâ€Distributed Metalâ€“Organic Frameworkâ€“Based Porous Membranes for Nonaqueous Redox Flow Batteries. Advanced Energy Materials, 2018, 8, 1802533.	10.2	70
42	Next-Generation Liquid Metal Batteries Based on the Chemistry of Fusible Alloys. ACS Central Science, 2020, 6, 1355-1366.	5.3	67
43	Enabling Graphene-Oxide-Based Membranes for Large-Scale Energy Storage by Controlling Hydrophilic Microstructures. CheM, 2018, 4, 1035-1046.	5.8	65
44	Reversible Deposition of Lithium Particles Enabled by Ultraconformal and Stretchable Graphene Film for Lithium Metal Batteries. Advanced Materials, 2020, 32, e2005763.	11.1	64
45	Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. Energy and Environmental Science, 2019, 12, 3370-3379.	15.6	55
46	The Promise of Environmentally Benign Redox Flow Batteries by Molecular Engineering. Angewandte Chemie - International Edition, 2017, 56, 8614-8616.	7.2	54
47	Insights into Hydrotropic Solubilization for Hybrid Ion Redox Flow Batteries. ACS Energy Letters, 2018, 3, 2641-2648.	8.8	54
48	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
49	Molecular Engineering Enables Better Organic Flow Batteries. CheM, 2017, 3, 917-919.	5.8	43
50	Efficient Solar Energy Harvesting and Storage through a Robust Photocatalyst Driving Reversible Redox Reactions. Advanced Materials, 2018, 30, e1802294.	11.1	43
51	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
52	A Ternary Hybridâ€Cation Roomâ€Temperature Liquid Metal Battery and Interfacial Selection Mechanism Study. Advanced Materials, 2020, 32, e2000316.	11.1	40
53	Design Principles and Applications of Nextâ€Generation Highâ€Energyâ€Density Batteries Based on Liquid Metals. Advanced Materials, 2021, 33, e2100052.	11.1	38
54	A Bioâ€Inspired, Heavyâ€Metalâ€Free, Dualâ€Electrolyte Liquid Battery towards Sustainable Energy Storage. Angewandte Chemie, 2016, 128, 4850-4854.	1.6	36

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55	Liquid Alloy Enabled Solidâ€State Batteries for Conformal Electrodeâ€“Electrolyte Interfaces. Advanced Functional Materials, 2021, 31, 2010863.	7.8	29
56	A Sustainable Redoxâ€Flow Battery with an Aluminumâ€Based, Deepâ€Eutecticâ€Solvent Anolyte. Angewandte Chemie, 2017, 129, 7562-7567.	1.6	27
57	Low-Temperature Multielement Fusible Alloy-Based Molten Sodium Batteries for Grid-Scale Energy Storage. ACS Central Science, 2020, 6, 2287-2293.	5.3	21
58	Biredox Eutectic Electrolytes Derived from Organic Redoxâ€Active Molecules: Highâ€Energy Storage Systems. Angewandte Chemie, 2019, 131, 7119-7124.	1.6	19
59	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
60	Amorphous silicon honeycombs as a binder/carbon-free, thin-film Li-ion battery anode. Chemical Communications, 2014, 50, 12959-12962.	2.2	15
61	MolekÃ¼lâ€Engineering: das Versprechen umweltvertrÃglicher Redoxâ€Flowâ€Batterien. Angewandte Chemie, 2017, 129, 8738-8740.	1.6	11
62	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
63	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
64	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
65	When graphite meets Li metal. National Science Review, 2020, 7, 1521-1522.	4.6	3
66	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
67	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
68	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
69	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