

Xiaoli Dong

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.

79
papers

4,731
citations

31
h-index

68
g-index

83
ext. papers

6,230
ext. citations

11.3
avg, IF

6.18
L-index

#	Paper	IF	Citations
79	Building low-temperature batteries: non-aqueous or aqueous electrolyte?. <i>Current Opinion in Electrochemistry</i> , 2022 , 100949	7.2	1
78	Promoting Rechargeable Batteries Operated at Low Temperature. <i>Accounts of Chemical Research</i> , 2021 , 54, 3883-3894	24.3	25
77	Revisiting the designing criteria of advanced solid electrolyte interphase on lithium metal anode under practical condition. <i>Nano Energy</i> , 2021 , 83, 105847	17.1	29
76	All-Climate Iron-Based Sodium-Ion Full Cell for Energy Storage. <i>Advanced Functional Materials</i> , 2021 , 31, 2102856	15.6	9
75	Decoupled amphoteric water electrolysis and its integration with Mn ²⁺ /n battery for flexible utilization of renewables. <i>Energy and Environmental Science</i> , 2021 , 14, 883-889	35.4	15
74	Ultrathin Silicon Nanolayer Implanted Ni ₃ Si/Ni Nanoparticles as Superlong-Cycle Lithium-Ion Anode Material. <i>Small Structures</i> , 2021 , 2, 2000126	8.7	10
73	Dendrite-Free and Long-Cycling Sodium Metal Batteries Enabled by Sodium-Ether Cointercalated Graphite Anode. <i>Advanced Functional Materials</i> , 2021 , 31, 2009778	15.6	5
72	A High-Voltage Zn/Organic Battery Using a Nonflammable Organic Electrolyte. <i>Angewandte Chemie</i> , 2021 , 133, 21193-21200	3.6	0
71	A High-Voltage Zn-Organic Battery Using a Nonflammable Organic Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 21025-21032	16.4	15
70	A New Germanium-Based Anode Material with High Stability for Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11883-11890	8.3	0
69	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie</i> , 2021 , 133, 25828	3.6	8
68	Advanced Electrolyte Design for High-Energy-Density Li-Metal Batteries under Practical Conditions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25624-25638	16.4	17
67	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. <i>Angewandte Chemie</i> , 2021 , 133, 24051	3.6	2
66	A Desolvation-Free Sodium Dual-Ion Chemistry for High Power Density and Extremely Low Temperature. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23858-23862	16.4	8
65	Hybrid Li-Ion Capacitor Operated within an All-Climate Temperature Range from -60 to +55 °C. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 45630-45638	9.5	2
64	An all-climate CF _x /Li battery with mechanism-guided electrolyte. <i>Energy Storage Materials</i> , 2021 , 42, 477-483	19.4	11
63	Ammonium-ion batteries with a wide operating temperature window from -40 to 80 °C. <i>EScience</i> , 2021 , 1, 212-218		8

62	Zinc-Organic Battery with a Wide Operation-Temperature Window from -70 to 150 °C. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14577-14583	16.4	65
61	Zinc-Organic Battery with a Wide Operation-Temperature Window from -70 to 150 °C. <i>Angewandte Chemie</i> , 2020 , 132, 14685-14691	3.6	28
60	A High-Rate and Long-Life Rechargeable Battery Operated at -75 °C. <i>Batteries and Supercaps</i> , 2020 , 3, 1016-1020	5.6	11
59	Low-Temperature Charge/Discharge of Rechargeable Battery Realized by Intercalation Pseudocapacitive Behavior. <i>Advanced Science</i> , 2020 , 7, 2000196	13.6	45
58	Fluorinated carboxylate ester-based electrolyte for lithium ion batteries operated at low temperature. <i>Chemical Communications</i> , 2020 , 56, 9640-9643	5.8	25
57	Energizing hybrid supercapacitors by using Mn ²⁺ -based active electrolyte. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15051-15057	13	8
56	Garnet-Based All-Ceramic Lithium Battery Enabled by LiBOCl Solder. <i>iScience</i> , 2020 , 23, 101071	6.1	11
55	Intercalation Pseudocapacitive Nanoscale Nickel Nanotubes as a High-Rate Cathode Material for Aqueous Sodium-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3655-3663	8.3	19
54	An organic/inorganic electrode-based hydronium-ion battery. <i>Nature Communications</i> , 2020 , 11, 959	17.4	65
53	An aqueous manganese-lead battery for large-scale energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5959-5967	13	10
52	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 5346-5349	16.4	22
51	Li/Garnet Interface Stabilization by Thermal-Decomposition Vapor Deposition of an Amorphous Carbon Layer. <i>Angewandte Chemie</i> , 2020 , 132, 5384-5387	3.6	0
50	Solid-State Proton Battery Operated at Ultralow Temperature. <i>ACS Energy Letters</i> , 2020 , 5, 685-691	20.1	54
49	A New Strategy of Constructing a Highly Fluorinated Solid-Electrolyte Interface towards High-Performance Lithium Anode. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000154	4.6	12
48	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18322-18333	16.4	40
47	Progress of Organic Electrodes in Aqueous Electrolyte for Energy Storage and Conversion. <i>Angewandte Chemie</i> , 2020 , 132, 18478-18489	3.6	14
46	Hybrid electrolyte for advanced rechargeable batteries. <i>Science Bulletin</i> , 2020 , 65, 92-93	10.6	0
45	Stabilized Rechargeable Aqueous Zinc Batteries Using Ethylene Glycol as Water Blocker. <i>ChemSusChem</i> , 2020 , 13, 5556-5564	8.3	25

44	Low-cost and high safe manganese-based aqueous battery for grid energy storage and conversion. <i>Science Bulletin</i> , 2019 , 64, 1780-1787	10.6	31
43	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. <i>Angewandte Chemie</i> , 2019 , 131, 4670-4674	3.6	3
42	Organic Proton-Buffer Electrode to Separate Hydrogen and Oxygen Evolution in Acid Water Electrolysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 4622-4626	16.4	28
41	Building an Interfacial Framework: Li/Garnet Interface Stabilization through a Cu ₆ Sn ₅ Layer. <i>ACS Energy Letters</i> , 2019 , 4, 1725-1731	20.1	52
40	Engineering a High-Energy-Density and Long Lifespan Aqueous Zinc Battery via Ammonium Vanadium Bronze. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20796-20803	9.5	51
39	A Metal-Organic Framework Host for Highly Reversible Dendrite-free Zinc Metal Anodes. <i>Joule</i> , 2019 , 3, 1289-1300	27.8	351
38	Interfacial modification of Li/Garnet electrolyte by a lithiophilic and breathing interlayer. <i>Journal of Power Sources</i> , 2019 , 419, 91-98	8.9	68
37	An All-Solid-State Sodium Sulfur Battery Using a Sulfur/Carbonized Polyacrylonitrile Composite Cathode. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5263-5271	6.1	29
36	Synergistic Effects of Salt Concentration and Working Temperature towards Dendrite-Free Lithium Deposition. <i>Research</i> , 2019 , 2019, 7481319	7.8	5
35	High-Energy Rechargeable Metallic Lithium Battery at 70 °C Enabled by a Cosolvent Electrolyte. <i>Angewandte Chemie</i> , 2019 , 131, 5679-5683	3.6	38
34	High-Energy Rechargeable Metallic Lithium Battery at -70 °C Enabled by a Cosolvent Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5623-5627	16.4	97
33	Anchoring an Artificial Solid-Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2093-2097	16.4	69
32	Anchoring an Artificial Solid-Electrolyte Interphase Layer on a 3D Current Collector for High-Performance Lithium Anodes. <i>Angewandte Chemie</i> , 2019 , 131, 2115-2119	3.6	8
31	Organic Batteries Operated at 70°C. <i>Joule</i> , 2018 , 2, 902-913	27.8	172
30	Integrating Desalination and Energy Storage using a Saltwater-based Hybrid Sodium-ion Supercapacitor. <i>ChemSusChem</i> , 2018 , 11, 1741-1745	8.3	23
29	A clean and membrane-free chlor-alkali process with decoupled Cl and H ₂ /NaOH production. <i>Nature Communications</i> , 2018 , 9, 438	17.4	42
28	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2904-2908	16.4	45
27	Decoupling Hydrogen and Oxygen Production in Acidic Water Electrolysis Using a Polytriphenylamine-Based Battery Electrode. <i>Angewandte Chemie</i> , 2018 , 130, 2954-2958	3.6	12

26	Polyaniline-intercalated manganese dioxide nanolayers as a high-performance cathode material for an aqueous zinc-ion battery. <i>Nature Communications</i> , 2018 , 9, 2906	17.4	618
25	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie</i> , 2018 , 130, 11911-11915	3.6	106
24	An Environmentally Friendly and Flexible Aqueous Zinc Battery Using an Organic Cathode. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11737-11741	16.4	261
23	Combining water reduction and liquid fuel oxidization by nickel hydroxide for flexible hydrogen production. <i>Energy Storage Materials</i> , 2018 , 11, 260-266	19.4	12
22	High Power Lithium-ion Battery based on Spinel Cathode and Hard Carbon Anode. <i>Electrochimica Acta</i> , 2017 , 228, 251-258	6.7	26
21	All-Organic Rechargeable Battery with Reversibility Supported by "Water-in-Salt" Electrolyte. <i>Chemistry - A European Journal</i> , 2017 , 23, 2560-2565	4.8	95
20	Multi-functional Flexible Aqueous Sodium-Ion Batteries with High Safety. <i>Chem</i> , 2017 , 3, 348-362	16.2	135
19	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16606-16610	16.4	50
18	A Simple Prelithiation Strategy To Build a High-Rate and Long-Life Lithium-Ion Battery with Improved Low-Temperature Performance. <i>Angewandte Chemie</i> , 2017 , 129, 16833-16837	3.6	8
17	Separating hydrogen and oxygen evolution in alkaline water electrolysis using nickel hydroxide. <i>Nature Communications</i> , 2016 , 7, 11741	17.4	232
16	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. <i>Angewandte Chemie</i> , 2016 , 128, 7600-7603	3.6	20
15	Environmentally-friendly aqueous Li (or Na)-ion battery with fast electrode kinetics and super-long life. <i>Science Advances</i> , 2016 , 2, e1501038	14.3	245
14	Base-acid hybrid water electrolysis. <i>Chemical Communications</i> , 2016 , 52, 3147-50	5.8	19
13	Flexible Aqueous Lithium-Ion Battery with High Safety and Large Volumetric Energy Density. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7474-7	16.4	122
12	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie</i> , 2016 , 128, 14596-14600	3.6	25
11	A Self-Healing Aqueous Lithium-Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14384-14388	16.4	151
10	Synthesis of ruthenium oxide coated ordered mesoporous carbon nanofiber arrays as a catalyst for lithium oxygen battery. <i>Journal of Power Sources</i> , 2015 , 276, 181-188	8.9	63
9	A lithium air battery with a lithiated Al-carbon anode. <i>Chemical Communications</i> , 2015 , 51, 676-8	5.8	65

8	Re-building Daniell cell with a Li-ion exchange film. <i>Scientific Reports</i> , 2014 , 4, 6916	4.9	18
7	A Nitrogen-doped Hierarchical Mesoporous/Microporous Carbon for Supercapacitors. <i>Electrochimica Acta</i> , 2014 , 146, 485-494	6.7	28
6	Humidity effect on electrochemical performance of LiO ₂ batteries. <i>Journal of Power Sources</i> , 2014 , 264, 1-7	8.9	101
5	Flexible and Wire-Shaped Micro-Supercapacitor Based on Ni(OH) ₂ -Nanowire and Ordered Mesoporous Carbon Electrodes. <i>Advanced Functional Materials</i> , 2014 , 24, 3405-3412	15.6	277
4	Ordered hierarchical mesoporous/macroporous carbon: a high-performance catalyst for rechargeable Li-O ₂ batteries. <i>Advanced Materials</i> , 2013 , 25, 5668-72	24	270
3	TiO ₂ (B) nanofiber bundles as a high performance anode for a Li-ion battery. <i>RSC Advances</i> , 2013 , 3, 33523-7	3.7	36
2	Fluorinated Carbon Materials and the Applications in Energy Storage Systems. <i>ACS Applied Energy Materials</i> ,	6.1	0
1	Prussian Blue Cathode with Intercalation Pseudocapacitive Behavior for Low-Temperature Batteries. <i>Advanced Energy and Sustainability Research</i> , 2100105	1.6	2