

Huilin Pan

List of Publications by Year in descending order

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68
papers

25,973
citations

36203

51
h-index

102304

66
g-index

69
all docs

69
docs citations

69
times ranked

17722
citing authors

#	ARTICLE	IF	CITATIONS
1	The Quest for Stable Potassium-Ion Battery Chemistry. <i>Advanced Materials</i> , 2022, 34, e2106876.	11.1	41
2	Adjusting the local solvation structures and hydrogen bonding networks for stable aqueous batteries with reduced cost. <i>Journal of Energy Chemistry</i> , 2022, 68, 411-419.	7.1	6
3	Origin of Air-Stability for Transition Metal Oxide Cathodes in Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5338-5345.	4.0	32
4	Advanced Buffering Acidic Aqueous Electrolytes for Ultra-Long Life Aqueous Zinc-Ion Batteries. <i>Small</i> , 2022, 18, e2200742.	5.2	49
5	Towards the practical application of Zn metal anodes for mild aqueous rechargeable Zn batteries. <i>Chemical Science</i> , 2022, 13, 8243-8252.	3.7	63
6	Low-solvation electrolytes for high-voltage sodium-ion batteries. <i>Nature Energy</i> , 2022, 7, 718-725.	19.8	137
7	Effects of water-based binders on electrochemical performance of manganese dioxide cathode in mild aqueous zinc batteries. , 2021, 3, 473-481.		44
8	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. <i>Chemistry - A European Journal</i> , 2021, 27, 830-860.	1.7	84
9	Value personal growth. <i>Nature Energy</i> , 2021, 6, 4-4.	19.8	0
10	Surface/Interface Structure and Chemistry of Lithium-Sulfur Batteries: From Density Functional Theory Calculations™ Perspective. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100007.	2.8	27
11	Manipulating Zn anode reactions through salt anion involving hydrogen bonding network in aqueous electrolytes with PEO additive. <i>Nano Energy</i> , 2021, 82, 105739.	8.2	115
12	Engineering Solid Electrolyte Interface at Nano-Scale for High-Performance Hard Carbon in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2100278.	7.8	90
13	Tailoring the Stability and Kinetics of Zn Anodes through Trace Organic Polymer Additives in Dilute Aqueous Electrolyte. <i>ACS Energy Letters</i> , 2021, 6, 3236-3243.	8.8	124
14	Rechargeable Mild Aqueous Zinc Batteries for Grid Storage. <i>Advanced Energy and Sustainability Research</i> , 2020, 1, 2000026.	2.8	10
15	Reaction heterogeneity in practical high-energy lithium-sulfur pouch cells. <i>Energy and Environmental Science</i> , 2020, 13, 3620-3632.	15.6	127
16	Highly Reversible Sodium Ion Batteries Enabled by Stable Electrolyte-Electrode Interphases. <i>ACS Energy Letters</i> , 2020, 5, 3212-3220.	8.8	97
17	Stabilizing Zinc Anode Reactions by Polyethylene Oxide Polymer in Mild Aqueous Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2003932.	7.8	210
18	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. <i>Nano Energy</i> , 2020, 76, 105041.	8.2	25

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19	Excellent Cycling Stability of Sodium Anode Enabled by a Stable Solid Electrolyte Interphase Formed in Ether-Based Electrolytes. <i>Advanced Functional Materials</i> , 2020, 30, 2001151.	7.8	60
20	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , 2019, 3, 1662-1676.	11.7	598
21	Monitoring the State-of-Charge of a Vanadium Redox Flow Battery with the Acoustic Attenuation Coefficient: An In Operando Noninvasive Method. <i>Small Methods</i> , 2019, 3, 1900494.	4.6	14
22	Monolithic solid-electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019, 4, 796-805.	19.8	621
23	Electrolyte Effect on the Electrochemical Performance of Mild Aqueous Zinc-Electrolytic Manganese Dioxide Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37524-37530.	4.0	47
24	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , 2019, 31, e1900567.	11.1	299
25	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. <i>Nature Energy</i> , 2019, 4, 551-559.	19.8	492
26	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. <i>Joule</i> , 2019, 3, 1094-1105.	11.7	358
27	Bridging the academic and industrial metrics for next-generation practical batteries. <i>Nature Nanotechnology</i> , 2019, 14, 200-207.	15.6	420
28	Rechargeable Lithium Metal Batteries. , 2019, , 147-203.		0
29	Addressing Passivation in Lithium-Sulfur Battery Under Lean Electrolyte Condition. <i>Advanced Functional Materials</i> , 2018, 28, 1707234.	7.8	143
30	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. <i>Advanced Energy Materials</i> , 2018, 8, 1703238.	10.2	414
31	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , 2018, 30, e1706102.	11.1	761
32	Detrimental Effects of Chemical Crossover from the Lithium Anode to Cathode in Rechargeable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2921-2930.	8.8	89
33	Lean Electrolyte Batteries: Addressing Passivation in Lithium-Sulfur Battery Under Lean Electrolyte Condition (<i>Adv. Funct. Mater.</i> 38/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870275.	7.8	5
34	Non-flammable electrolytes with high salt-to-solvent ratios for Li-ion and Li-metal batteries. <i>Nature Energy</i> , 2018, 3, 674-681.	19.8	557
35	Tailored Reaction Route by Micropore Confinement for Li-S Batteries Operating under Lean Electrolyte Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1800590.	10.2	55
36	Manipulating Adsorption-Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017, 7, 1700403.	10.2	662

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37	Improving Lithium-Sulfur Battery Performance under Lean Electrolyte through Nanoscale Confinement in Soft Swellable Gels. <i>Nano Letters</i> , 2017, 17, 3061-3067.	4.5	122
38	Multinuclear NMR Study of the Solid Electrolyte Interface Formed in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14741-14748.	4.0	47
39	Elucidating the Solvation Structure and Dynamics of Lithium Polysulfides Resulting from Competitive Salt and Solvent Interactions. <i>Chemistry of Materials</i> , 2017, 29, 3375-3379.	3.2	117
40	Ammonium Additives to Dissolve Lithium Sulfide through Hydrogen Binding for High-Energy Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4290-4295.	4.0	74
41	Non-encapsulation approach for high-performance Li-S batteries through controlled nucleation and growth. <i>Nature Energy</i> , 2017, 2, 813-820.	19.8	326
42	Effects of Anion Mobility on Electrochemical Behaviors of Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2017, 29, 9023-9029.	3.2	35
43	Restricting the Solubility of Polysulfides in Li-S Batteries Via Electrolyte Salt Selection. <i>Advanced Energy Materials</i> , 2016, 6, 1600160.	10.2	66
44	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016, 1, .	19.8	2,186
45	Tunable Oxygen Functional Groups as Electrocatalysts on Graphite Felt Surfaces for All-Vanadium Flow Batteries. <i>ChemSusChem</i> , 2016, 9, 1455-1461.	3.6	66
46	Hard carbon nanoparticles as high-capacity, high-stability anodic materials for Na-ion batteries. <i>Nano Energy</i> , 2016, 19, 279-288.	8.2	341
47	Alkali-Ion Storage Behaviour in Spinel Lithium Titanate Electrodes. <i>ChemElectroChem</i> , 2015, 2, 1678-1681.	1.7	5
48	On the Way Toward Understanding Solution Chemistry of Lithium Polysulfides for High Energy Li-S Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500113.	10.2	142
49	Following the Transient Reactions in Lithium-Sulfur Batteries Using an In Situ Nuclear Magnetic Resonance Technique. <i>Nano Letters</i> , 2015, 15, 3309-3316.	4.5	107
50	Direct Observation of the Redistribution of Sulfur and Polysulfides in Li-S Batteries During the First Cycle by In Situ X-Ray Fluorescence Microscopy. <i>Advanced Energy Materials</i> , 2015, 5, 1500072.	10.2	84
51	High Energy Density Lithium-Sulfur Batteries: Challenges of Thick Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2015, 5, 1402290.	10.2	483
52	Electrospun Na ₃ V ₂ (PO ₄) ₃ /C nanofibers as stable cathode materials for sodium-ion batteries. <i>Nanoscale</i> , 2014, 6, 5081.	2.8	266
53	Lewis Acid-Base Interactions between Polysulfides and Metal Organic Framework in Lithium Sulfur Batteries. <i>Nano Letters</i> , 2014, 14, 2345-2352.	4.5	623
54	Materials Science and Materials Chemistry for Large Scale Electrochemical Energy Storage: From Transportation to Electrical Grid. <i>Advanced Functional Materials</i> , 2013, 23, 929-946.	7.8	590

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55	Room-temperature stationary sodium-ion batteries for large-scale electric energy storage. <i>Energy and Environmental Science</i> , 2013, 6, 2338.	15.6	2,799
56	A Size-Dependent Sodium Storage Mechanism in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Investigated by a Novel Characterization Technique Combining in Situ X-ray Diffraction and Chemical Sodiation. <i>Nano Letters</i> , 2013, 13, 4721-4727.	4.5	212
57	Direct atomic-scale confirmation of three-phase storage mechanism in $\text{Li}_4\text{Ti}_5\text{O}_{12}$ anodes for room-temperature sodium-ion batteries. <i>Nature Communications</i> , 2013, 4, 1870.	5.8	628
58	Sodium Storage and Transport Properties in Layered $\text{Na}_2\text{Ti}_3\text{O}_7$ for Room-Temperature Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 1186-1194.	10.2	456
59	Controlled Nucleation and Growth Process of $\text{Li}_2\text{S}_2/\text{Li}_2\text{S}$ in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1992-A1996.	1.3	89
60	How to Obtain Reproducible Results for Lithium Sulfur Batteries?. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2288-A2292.	1.3	149
61	Sodium Ion Insertion in Hollow Carbon Nanowires for Battery Applications. <i>Nano Letters</i> , 2012, 12, 3783-3787.	4.5	1,552
62	High capacity, reversible alloying reactions in SnSb/C nanocomposites for Na-ion battery applications. <i>Chemical Communications</i> , 2012, 48, 3321.	2.2	566
63	Improved Li-Storage Performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Coated with C_iN_j Compounds Derived from Pyrolysis of Urea through a Low-Temperature Approach. <i>ChemSusChem</i> , 2012, 5, 526-529.	3.6	52
64	Carbon coated $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ as novel electrode material for sodium ion batteries. <i>Electrochemistry Communications</i> , 2012, 14, 86-89.	2.3	693
65	A Soft Approach to Encapsulate Sulfur: Polyaniline Nanotubes for Lithium-Sulfur Batteries with Long Cycle Life. <i>Advanced Materials</i> , 2012, 24, 1176-1181.	11.1	959
66	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7660.	1.3	347
67	Electrochemical Energy Storage for Green Grid. <i>Chemical Reviews</i> , 2011, 111, 3577-3613.	23.0	4,276
68	Reversible Sodium Ion Insertion in Single Crystalline Manganese Oxide Nanowires with Long Cycle Life. <i>Advanced Materials</i> , 2011, 23, 3155-3160.	11.1	638