

Huilin Pan

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.

65 papers	19,673 citations	43 h-index	69 g-index
69 ext. papers	22,648 ext. citations	20.9 avg, IF	6.91 L-index

#	Paper	IF	Citations
65	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	12	1
64	Advanced Buffering Acidic Aqueous Electrolytes for Ultra-Long Life Aqueous Zinc-Ion Batteries.. <i>Small</i> , 2022 , e2200742	11	5
63	The Quest for Stable Potassium-Ion Battery Chemistry. <i>Advanced Materials</i> , 2021 , e2106876	24	10
62	Manipulating Zn anode reactions through salt anion involving hydrogen bonding network in aqueous electrolytes with PEO additive. <i>Nano Energy</i> , 2021 , 82, 105739	17.1	40
61	Engineering Solid Electrolyte Interface at Nano-Scale for High-Performance Hard Carbon in Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100278	15.6	22
60	Effects of water-based binders on electrochemical performance of manganese dioxide cathode in mild aqueous zinc batteries 2021 , 3, 473-481		13
59	Cathodes for Aqueous Zn-Ion Batteries: Materials, Mechanisms, and Kinetics. <i>Chemistry - A European Journal</i> , 2021 , 27, 830-860	4.8	31
58	Value personal growth. <i>Nature Energy</i> , 2021 , 6, 4-4	62.3	
57	Surface/Interface Structure and Chemistry of LithiumSulfur Batteries: From Density Functional Theory CalculationsIPerspective. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100007	1.6	9
56	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	20.1	26
55	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. <i>Nano Energy</i> , 2020 , 76, 105041	17.1	14
54	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	15.6	27
53	Rechargeable Mild Aqueous Zinc Batteries for Grid Storage. <i>Advanced Energy and Sustainability Research</i> , 2020 , 1, 2000026	1.6	5
52	Reaction heterogeneity in practical high-energy lithiumSulfur pouch cells. <i>Energy and Environmental Science</i> , 2020 , 13, 3620-3632	35.4	59
51	Highly Reversible Sodium Ion Batteries Enabled by Stable Electrolyte-Electrode Interphases. <i>ACS Energy Letters</i> , 2020 , 5, 3212-3220	20.1	40
50	Stabilizing Zinc Anode Reactions by Polyethylene Oxide Polymer in Mild Aqueous Electrolytes. <i>Advanced Functional Materials</i> , 2020 , 30, 2003932	15.6	78
49	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	12.8	8

48	Monolithic solid electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019 , 4, 796-805	62.3	325
47	Electrolyte Effect on the Electrochemical Performance of Mild Aqueous Zinc-Electrolytic Manganese Dioxide Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37524-37530	9.5	28
46	Joint Charge Storage for High-Rate Aqueous Zinc-Manganese Dioxide Batteries. <i>Advanced Materials</i> , 2019 , 31, e1900567	24	163
45	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. <i>Nature Energy</i> , 2019 , 4, 551-559	62.3	283
44	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , 2019 , 3, 1662-1676	27.8	272
43	Rechargeable Lithium Metal Batteries 2019 , 147-203		
42	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. <i>Joule</i> , 2019 , 3, 1094-1105	27.8	219
41	Bridging the academic and industrial metrics for next-generation practical batteries. <i>Nature Nanotechnology</i> , 2019 , 14, 200-207	28.7	255
40	Addressing Passivation in Lithium-Sulfur Battery Under Lean Electrolyte Condition. <i>Advanced Functional Materials</i> , 2018 , 28, 1707234	15.6	111
39	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	21.8	262
38	High-Voltage Lithium-Metal Batteries Enabled by Localized High-Concentration Electrolytes. <i>Advanced Materials</i> , 2018 , 30, e1706102	24	452
37	Tailored Reaction Route by Micropore Confinement for Li-S Batteries Operating under Lean Electrolyte Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800590	21.8	42
36	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	20.1	51
35	Lean Electrolyte Batteries: Addressing Passivation in Lithium-Sulfur Battery Under Lean Electrolyte Condition (Adv. Funct. Mater. 38/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870275	15.6	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	62.3	357
33	Manipulating Adsorption/Insertion Mechanisms in Nanostructured Carbon Materials for High-Efficiency Sodium Ion Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1700403	21.8	486
32	Improving Lithium-Sulfur Battery Performance under Lean Electrolyte through Nanoscale Confinement in Soft Swellable Gels. <i>Nano Letters</i> , 2017 , 17, 3061-3067	11.5	99
31	Multinuclear NMR Study of the Solid Electrolyte Interface Formed in Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 14741-14748	9.5	36

30	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	9.6	78
29	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	9.5	51
28	Non-encapsulation approach for high-performance LiS batteries through controlled nucleation and growth. <i>Nature Energy</i> , 2017 , 2, 813-820	62.3	256
27	Effects of Anion Mobility on Electrochemical Behaviors of Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 9023-9029	9.6	28
26	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016 , 1,	62.3	1461
25	Tunable Oxygen Functional Groups as Electrocatalysts on Graphite Felt Surfaces for All-Vanadium Flow Batteries. <i>ChemSusChem</i> , 2016 , 9, 1455-61	8.3	52
24	Hard carbon nanoparticles as high-capacity, high-stability anodic materials for Na-ion batteries. <i>Nano Energy</i> , 2016 , 19, 279-288	17.1	289
23	Restricting the Solubility of Polysulfides in Li-S Batteries Via Electrolyte Salt Selection. <i>Advanced Energy Materials</i> , 2016 , 6, 1600160	21.8	57
22	On the Way Toward Understanding Solution Chemistry of Lithium Polysulfides for High Energy LiS Redox Flow Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1500113	21.8	103
21	Following the transient reactions in lithium-sulfur batteries using an in situ nuclear magnetic resonance technique. <i>Nano Letters</i> , 2015 , 15, 3309-16	11.5	88
20	Direct Observation of the Redistribution of Sulfur and Polysulfides in LiS Batteries During the First Cycle by In Situ X-Ray Fluorescence Microscopy. <i>Advanced Energy Materials</i> , 2015 , 5, 1500072	21.8	74
19	High Energy Density Lithium-Sulfur Batteries: Challenges of Thick Sulfur Cathodes. <i>Advanced Energy Materials</i> , 2015 , 5, 1402290	21.8	424
18	Alkali-Ion Storage Behaviour in Spinel Lithium Titanate Electrodes. <i>ChemElectroChem</i> , 2015 , 2, 1678-1681	4.3	3
17	Electrospun Na ₃ V ₂ (PO ₄) ₃ /C nanofibers as stable cathode materials for sodium-ion batteries. <i>Nanoscale</i> , 2014 , 6, 5081-6	7.7	235
16	Lewis acid-base interactions between polysulfides and metal organic framework in lithium sulfur batteries. <i>Nano Letters</i> , 2014 , 14, 2345-52	11.5	529
15	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	15.6	516
14	Room-temperature stationary sodium-ion batteries for large-scale electric energy storage. <i>Energy and Environmental Science</i> , 2013 , 6, 2338	35.4	2419
13	A size-dependent sodium storage mechanism in Li ₄ Ti ₅ O ₁₂ investigated by a novel characterization technique combining in situ X-ray diffraction and chemical sodiation. <i>Nano Letters</i> , 2013 , 13, 4721-7	11.5	195

12	Direct atomic-scale confirmation of three-phase storage mechanism in LiTiO_2 anodes for room-temperature sodium-ion batteries. <i>Nature Communications</i> , 2013 , 4, 1870	17.4	577
11	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	21.8	401
10	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	3.9	82
9	How to Obtain Reproducible Results for Lithium Sulfur Batteries?. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A2288-A2292	3.9	136
8	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	5.1	596
7	A soft approach to encapsulate sulfur: polyaniline nanotubes for lithium-sulfur batteries with long cycle life. <i>Advanced Materials</i> , 2012 , 24, 1176-81	24	881
6	Sodium ion insertion in hollow carbon nanowires for battery applications. <i>Nano Letters</i> , 2012 , 12, 3783-711.5	11.5	1322
5	High capacity, reversible alloying reactions in SnSb/C nanocomposites for Na-ion battery applications. <i>Chemical Communications</i> , 2012 , 48, 3321-3	5.8	538
4	Improved Li-storage performance of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ coated with C-N compounds derived from pyrolysis of urea through a low-temperature approach. <i>ChemSusChem</i> , 2012 , 5, 526-9	8.3	50
3	Sandwich-type functionalized graphene sheet-sulfur nanocomposite for rechargeable lithium batteries. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 7660-5	3.6	324
2	Electrochemical energy storage for green grid. <i>Chemical Reviews</i> , 2011 , 111, 3577-613	68.1	3471
1	Reversible sodium ion insertion in single crystalline manganese oxide nanowires with long cycle life. <i>Advanced Materials</i> , 2011 , 23, 3155-60	24	581