

Jiguo Tu

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.

92
papers

2,791
citations

28
h-index

50
g-index

93
ext. papers

3,407
ext. citations

8.9
avg, IF

5.67
L-index

#	Paper	IF	Citations
92	Photo-electrochemical enhanced mechanism enables a fast-charging and high-energy aqueous Al/MnO ₂ battery. <i>Energy Storage Materials</i> , 2022 , 45, 586-594	19.4	4
91	Enhanced storage behavior of quasi-solid-state aluminum-selenium battery.. <i>RSC Advances</i> , 2021 , 11, 39484-39492	3.7	0
90	Nonaqueous Rechargeable Aluminum Batteries: Progresses, Challenges, and Perspectives. <i>Chemical Reviews</i> , 2021 , 121, 4903-4961	68.1	34
89	Enhanced intercalation behaviors of edge-rich flakes-stacked graphite for Al-graphite dual-ion battery. <i>Journal of Power Sources</i> , 2021 , 492, 229674	8.9	5
88	A Review of Integrated Systems Based on Perovskite Solar Cells and Energy Storage Units: Fundamental, Progresses, Challenges, and Perspectives. <i>Advanced Science</i> , 2021 , 8, 2100552	13.6	5
87	Hierarchical N-doped porous carbon hosts for stabilizing tellurium in promoting Al-Te batteries. <i>Journal of Energy Chemistry</i> , 2021 , 57, 378-385	12	10
86	Al homogeneous deposition induced by N-containing functional groups for enhanced cycling stability of Al-ion battery negative electrode. <i>Nano Research</i> , 2021 , 14, 646-653	10	6
85	A dual-protection strategy using CMK-3 coated selenium and modified separators for high-energy AlSe batteries. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1030-1038	6.8	4
84	Coordination interaction boosts energy storage in rechargeable Al battery with a positive electrode material of CuSe. <i>Chemical Engineering Journal</i> , 2021 , 421, 127792	14.7	11
83	An investigation into the anodic behavior of TiB ₂ in a CaCl ₂ -based molten salt. <i>Corrosion Science</i> , 2021 , 178, 109089	6.8	3
82	A cobalt-based metal-organic framework and its derived material as sulfur hosts for aluminum-sulfur batteries with the chemical anchoring effect. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 10326-10334	3.6	2
81	Effect of Laser Remelting on Microstructure, Residual Stress, and Mechanical Property of Selective Laser Melting-Processed Ti-6Al-4V Alloy. <i>Minerals, Metals and Materials Series</i> , 2021 , 92-99	0.3	
80	Green and sustainable molten salt electrochemistry for the conversion of secondary carbon pollutants to advanced carbon materials. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14119-14146	13	8
79	Stable and low-voltage-hysteresis zinc negative electrode promoting aluminum dual-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 132743	14.7	1
78	Green preparation of vanadium carbide through one-step molten salt electrolysis. <i>Ceramics International</i> , 2021 , 47, 28203-28209	5.1	2
77	Surface treatment functionalization of sodium hydroxide onto 3D printed porous Ti6Al4V for improved biological activities and osteogenic potencies. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 13661-13670	5.5	6
76	Rechargeable High-Capacity Antimony-Aluminum Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 080541	3.9	5

75	Stable Interface between a NaCl-AlCl Melt and a Liquid Ga Negative Electrode for a Long-Life Stationary Al-Ion Energy Storage Battery. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15063-15070 ^{9.5}	9.5	5
74	Preparation of petaloid graphite nanoflakes in molten salt for high-performance lithium-ion batteries. <i>Ionics</i> , 2020 , 26, 3351-3358	2.7	2
73	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020 , 14, 3469-3476	16.7	36
72	Self-supporting and high-loading hierarchically porous Co-P cathode for advanced Al-ion battery. <i>Chemical Engineering Journal</i> , 2020 , 389, 124370	14.7	28
71	Electrochemical behavior of NiCl ₂ /Ni in acidic AlCl ₃ -based ionic liquid electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1909-1917	6.8	4
70	Rapid Electrodeposition of Ti on a Liquid Zn Cathode from a Consumable Casting Ti _{0.5} O _{0.5} Anode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 123502	3.9	7
69	Nanosheet-stacked flake graphite for high-performance Al storage in inorganic molten AlCl ₃ -NaCl salt. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 1711-1722	3.1	3
68	Modified separators for rechargeable high-capacity selenium-aluminium batteries. <i>Chemical Engineering Journal</i> , 2020 , 385, 123452	14.7	16
67	The molten chlorides for aluminum-graphite rechargeable batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153285	5.7	14
66	Electrochemical graphitization conversion of CO ₂ through soluble NaVO ₃ homogeneous catalyst in carbonate molten salt. <i>Electrochimica Acta</i> , 2020 , 331, 135461	6.7	15
65	Liquid gallium as long cycle life and recyclable negative electrode for Al-ion batteries. <i>Chemical Engineering Journal</i> , 2020 , 391, 123594	14.7	13
64	Active cyano groups to coordinate AlCl ₂ ⁺ cation for rechargeable aluminum batteries. <i>Energy Storage Materials</i> , 2020 , 33, 250-257	19.4	15
63	Coral-Like TeO ₂ Microwires for Rechargeable Aluminum Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2416-2422	8.3	12
62	Sb ₂ Te ₃ Hexagonal Nanosheets as High-Capacity Positive Materials for Rechargeable Aluminum Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12635-12643	6.1	2
61	A strategy for massively suppressing the shuttle effect in rechargeable Al ^{III} /Fe batteries. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 4000-4009	6.8	5
60	Cu-Al Composite as the Negative Electrode for Long-life Al-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A3539-A3545	3.9	11
59	Metal-Organic Framework-Derived Co ₃ O ₄ @MWCNTs Polyhedron as Cathode Material for a High-Performance Aluminum-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16200-16208	8.3	32
58	Depolarization Behavior of Ti Deposition at Liquid Metal Cathodes in a NaCl-KCl-KF Melt. <i>Journal of the Electrochemical Society</i> , 2019 , 166, E401-E406	3.9	5

57	High-efficiency transformation of amorphous carbon into graphite nanoflakes for stable aluminum-ion battery cathodes. <i>Nanoscale</i> , 2019 , 11, 12537-12546	7.7	34
56	Electrochemically Exfoliating Graphite Cathode to N-Doped Graphene Analogue and Its Excellent Al Storage Performance. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A1738-A1744	3.9	5
55	Rechargeable ultrahigh-capacity tellurium/aluminum batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 1918-1927	35.4	124
54	A Rechargeable Al/Graphite Battery Based on AlCl ₃ /1-butyl-3-methylimidazolium Chloride Ionic Liquid Electrolyte. <i>ChemistrySelect</i> , 2019 , 4, 3018-3024	1.8	11
53	The potential application of black and blue phosphorene as cathode materials in rechargeable aluminum batteries: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7021-7028	3.6	16
52	Cu ₃ P as a novel cathode material for rechargeable aluminum-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8368-8375	13	52
51	A green electrochemical transformation of inferior coals to crystalline graphite for stable Li-ion storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7533-7540	13	22
50	3D skeleton nanostructured Ni ₃ S ₂ /Ni foam@RGO composite anode for high-performance dual-ion battery. <i>Journal of Energy Chemistry</i> , 2019 , 28, 144-150	12	13
49	SbSe nanorods with N-doped reduced graphene oxide hybrids as high-capacity positive electrode materials for rechargeable aluminum batteries. <i>Nanoscale</i> , 2019 , 11, 16437-16444	7.7	24
48	Gel electrolytes with a wide potential window for high-rate Al-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20348-20356	13	29
47	Single-crystal and hierarchical VSe ₂ as an aluminum-ion battery cathode. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2717-2724	5.8	12
46	Hierarchical Flower-Like MoS ₂ Microspheres and Their Efficient Al Storage Properties. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26794-26802	3.8	15
45	Nickel Phosphide Nanosheets Supported on Reduced Graphene Oxide for Enhanced Aluminum-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6004-6012	8.3	40
44	Cellulose-derived flake graphite as positive electrodes for Al-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3561-3568	5.8	11
43	The effect of graphitization degree of carbonaceous material on the electrochemical performance for aluminum-ion batteries. <i>RSC Advances</i> , 2019 , 9, 38990-38997	3.7	14
42	Flexible Stable Solid-State Al-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1806799	15.6	126
41	Room temperature solid state dual-ion batteries based on gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4313-4323	13	29
40	Flower-like Vanadium Sulfide/Reduced Graphene Oxide Composite: An Energy Storage Material for Aluminum-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 709-715	8.3	79

39	A novel dual-graphite aluminum-ion battery. <i>Energy Storage Materials</i> , 2018 , 12, 119-127	19.4	61
38	Ordered WO nanorods: facile synthesis and their electrochemical properties for aluminum-ion batteries. <i>Chemical Communications</i> , 2018 , 54, 1343-1346	5.8	69
37	A nitrogen-doped graphene cathode for high-capacitance aluminum-ion hybrid supercapacitors. <i>New Journal of Chemistry</i> , 2018 , 42, 15684-15691	3.6	16
36	Facile synthesis of Ni(HPO)(OH)/rGO nanorods with enhanced electrochemical performance for aluminum-ion batteries. <i>Nanoscale</i> , 2018 , 10, 21284-21291	7.7	27
35	NiCo ₂ S ₄ Nanosheet with Hexagonal Architectures as an Advanced Cathode for Al-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3504-A3509	3.9	16
34	Production of AlCrNbTaTi High Entropy Alloy via Electro-Deoxidation of Metal Oxides. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D574-D579	3.9	15
33	Facile Electrochemical Preparation of Al-Sm Alloys in Molten Calcium Chloride. <i>Journal of the Electrochemical Society</i> , 2018 , 165, E616-E621	3.9	3
32	Production of Ti-Fe alloys molten oxide electrolysis at a liquid iron cathode.. <i>RSC Advances</i> , 2018 , 8, 17575-17581	3.7	158
31	A rechargeable Al-ion battery: Al/molten AlCl ₃ -urea/graphite. <i>Chemical Communications</i> , 2017 , 53, 2331-2334	3.84	125
30	A Novel Ultrafast Rechargeable Multi-Ions Battery. <i>Advanced Materials</i> , 2017 , 29, 1606349	24	74
29	Direct Production of Fe and Fe-Ni Alloy via Molten Oxides Electrolysis. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E113-E116	3.9	12
28	The electrochemical behavior of an aluminum alloy anode for rechargeable Al-ion batteries using an AlCl ₃ -urea liquid electrolyte. <i>RSC Advances</i> , 2017 , 7, 32288-32293	3.7	29
27	A long-life rechargeable Al ion battery based on molten salts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1282-1291	13	121
26	Exfoliation Mechanism of Graphite Cathode in Ionic Liquids. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36702-36707	9.5	37
25	The Effects of Anions Behaviors on Electrochemical Properties of Al/Graphite Rechargeable Aluminum-Ion Battery via Molten AlCl ₃ -NaCl Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3292-A3302	3.9	20
24	Ternary AlCl ₃ -Urea-[EMIm]Cl Ionic Liquid Electrolyte for Rechargeable Aluminum-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3093-A3100	3.9	29
23	High Specific Capacitance Based on N-Doped Microporous Carbon in [EMIm]AlxCl _y Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3319-A3325	3.9	6
22	Mg ²⁺ co-doping behavior of porous LiFePO ₄ microspheres for high-rate lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17021-17028	13	49

21	An industrialized prototype of the rechargeable Al/AlCl ₃ -[EMIm]Cl/graphite battery and recycling of the graphitic cathode into graphene. <i>Carbon</i> , 2016 , 109, 276-281	10.4	105
20	A Novel Aluminum-Ion Battery: Al/AlCl ₃ -[EMIm]Cl/Ni ₃ S ₂ @Graphene. <i>Advanced Energy Materials</i> , 2016 , 6, 1600137	21.8	306
19	Selection of Carbon Sources for Enhancing 3D Conductivity in the Secondary Structure of LiFePO ₄ /C Cathode. <i>Electrochimica Acta</i> , 2016 , 193, 206-215	6.7	26
18	Sodium modified molybdenum sulfide via molten salt electrolysis as an anode material for high performance sodium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3204-13	3.6	36
17	Aluminum-Ion Asymmetric Supercapacitor Incorporating Carbon Nanotubes and an Ionic Liquid Electrolyte: Al/AlCl ₃ -[EMIm]Cl/CNTs. <i>Energy Technology</i> , 2016 , 4, 1112-1118	3.5	25
16	A novel ordered SiO _x C _y film anode fabricated via electrodeposition in air for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2467	13	7
15	Electrochemically assembling of polythiophene film in ionic liquids (ILs) microemulsions and its application in an electrochemical capacitor. <i>Electrochimica Acta</i> , 2014 , 120, 122-127	6.7	36
14	Controllable Cu ₂ O/TiO ₂ nanoparticle electrodeposition onto carbon paper and its superior photoelectrochemical performance. <i>RSC Advances</i> , 2014 , 4, 16380	3.7	6
13	Straightforward Approach toward SiO ₂ Nanospheres and Their Superior Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 7357-7362	3.8	81
12	Core-shell Si-N-doped C assembled via an oxidative template for lithium-ion anodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18549-54	3.6	5
11	3D structure through planting core-shell Si@TiN into an amorphous carbon slag: improved capacity of lithium-ion anodes. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10472-6	3.6	5
10	Self-assembled amorphous manganese oxide/hydroxide spheres via multi-phase electrochemical interactions in reverse micelle electrolytes and their capacitive behavior. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5136	13	18
9	In-Situ Synthesis of Silicon/Polyaniline Core/Shell and Its Electrochemical Performance for Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013 , 160, A1916-A1921	3.9	16
8	A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. <i>Scientific Reports</i> , 2013 , 3, 3383	4.9	252
7	Nanostructured Li ₄ Ti ₅ O ₁₂ synthesized in a reverse micelle: A bridge between pseudocapacitor and lithium ion battery. <i>Electrochimica Acta</i> , 2012 , 68, 254-259	6.7	13
6	In situ electrochemical polymerization of a nanorod-PANI-Graphene composite in a reverse micelle electrolyte and its application in a supercapacitor. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 15652-6	3.6	71
5	Electrochemical performance of Si@TiN composite anode synthesized in a liquid ammonia for lithium-ion batteries. <i>Materials Chemistry and Physics</i> , 2012 , 136, 863-867	4.4	7
4	Electrochemically assembling of a porous nano-polyaniline network in a reverse micelle and its application in a supercapacitor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9027		52

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| 3 | Preparation of porous nanorod polyaniline film and its high electrochemical capacitance performance. <i>Synthetic Metals</i> , 2011 , 161, 1255-1258 | 3.6 | 19 |
| 2 | Cyclability Study of Si/TiN/C Composite Anode with High Rate Capability for Lithium-Ion Batteries | 773-779 | |
| 1 | Design Strategies of High-Performance Positive Materials for Nonaqueous Rechargeable Aluminum Batteries: From Crystal Control to Battery Configuration. <i>Small</i> , 2201362 | 11 | 1 |