

# Jiguo Tu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7716517/publications.pdf>

Version: 2024-02-01

92  
papers

4,083  
citations

117571

34  
h-index

123376

61  
g-index

93  
all docs

93  
docs citations

93  
times ranked

3222  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Aluminum-Ion Battery: Al/AlCl <sub>3</sub> -[EMIm]Cl/Ni <sub>3</sub> S <sub>2</sub> @Graphene. <i>Advanced Energy Materials</i> , 2016, 6, 1600137.	10.2	365
2	A new cathode material for super-valent battery based on aluminium ion intercalation and deintercalation. <i>Scientific Reports</i> , 2013, 3, 3383.	1.6	286
3	Flexible Stable Solid-State Al-Ion Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806799.	7.8	177
4	Rechargeable ultrahigh-capacity tellurium-aluminum batteries. <i>Energy and Environmental Science</i> , 2019, 12, 1918-1927.	15.6	172
5	A long-life rechargeable Al ion battery based on molten salts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1282-1291.	5.2	153
6	A rechargeable Al-ion battery: Al/molten AlCl <sub>3</sub> -urea/graphite. <i>Chemical Communications</i> , 2017, 53, 2331-2334.	2.2	147
7	Nonaqueous Rechargeable Aluminum Batteries: Progresses, Challenges, and Perspectives. <i>Chemical Reviews</i> , 2021, 121, 4903-4961.	23.0	147
8	An industrialized prototype of the rechargeable Al/AlCl <sub>3</sub> -[EMIm]Cl/graphite battery and recycling of the graphitic cathode into graphene. <i>Carbon</i> , 2016, 109, 276-281.	5.4	129
9	Straightforward Approach toward SiO <sub>2</sub> Nanospheres and Their Superior Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7357-7362.	1.5	104
10	Flower-like Vanadium Sulfide/Reduced Graphene Oxide Composite: An Energy Storage Material for Aluminum-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 709-715.	3.6	101
11	A Novel Ultrafast Rechargeable Multi-Ions Battery. <i>Advanced Materials</i> , 2017, 29, 1606349.	11.1	97
12	A novel dual-graphite aluminum-ion battery. <i>Energy Storage Materials</i> , 2018, 12, 119-127.	9.5	86
13	Ordered WO <sub>3</sub> nanorods: facile synthesis and their electrochemical properties for aluminum-ion batteries. <i>Chemical Communications</i> , 2018, 54, 1343-1346.	2.2	86
14	Cu <sub>3</sub> P as a novel cathode material for rechargeable aluminum-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8368-8375.	5.2	85
15	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.	1.3	83
16	Mg-Ti co-doping behavior of porous LiFePO <sub>4</sub> microspheres for high-rate lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17021-17028.	5.2	80
17	Rechargeable Nickel Telluride/Aluminum Batteries with High Capacity and Enhanced Cycling Performance. <i>ACS Nano</i> , 2020, 14, 3469-3476.	7.3	70
18	High-efficiency transformation of amorphous carbon into graphite nanoflakes for stable aluminum-ion battery cathodes. <i>Nanoscale</i> , 2019, 11, 12537-12546.	2.8	61

#	ARTICLE	IF	CITATIONS
19	Nickel Phosphide Nanosheets Supported on Reduced Graphene Oxide for Enhanced Aluminum-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6004-6012.	3.2	61
20	Metal-Organic Framework-Derived $\text{Co}_3\text{O}_4$ @MWCNTs Polyhedron as Cathode Material for a High-Performance Aluminum-Ion Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16200-16208.	3.2	55
21	Gel electrolytes with a wide potential window for high-rate Al-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 20348-20356.	5.2	54
22	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.	6.7	53
23	Exfoliation Mechanism of Graphite Cathode in Ionic Liquids. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36702-36707.	4.0	50
24	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, 3204-3213.	1.3	49
25	Active cyano groups to coordinate $\text{AlCl}_2^+$ cation for rechargeable aluminum batteries. <i>Energy Storage Materials</i> , 2020, 33, 250-257.	9.5	49
26	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.	2.6	41
27	The electrochemical behavior of an aluminum alloy anode for rechargeable Al-ion batteries using an $\text{AlCl}_3$ -urea liquid electrolyte. <i>RSC Advances</i> , 2017, 7, 32288-32293.	1.7	41
28	Ternary $\text{AlCl}_3$ -Urea-[EMIm]Cl Ionic Liquid Electrolyte for Rechargeable Aluminum-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3093-A3100.	1.3	40
29	Room temperature solid state dual-ion batteries based on gel electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4313-4323.	5.2	40
30	$\text{Sb}_2\text{Se}_3$ 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.	2.8	38
31	Self-supporting and high-loading hierarchically porous Co-P cathode for advanced Al-ion battery. <i>Chemical Engineering Journal</i> , 2020, 389, 124370.	6.6	38
32	Modified separators for rechargeable high-capacity selenium-aluminium batteries. <i>Chemical Engineering Journal</i> , 2020, 385, 123452.	6.6	36
33	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.	5.2	35
34	Selection of Carbon Sources for Enhancing 3D Conductivity in the Secondary Structure of $\text{LiFePO}_4/\text{C}$ Cathode. <i>Electrochimica Acta</i> , 2016, 193, 206-215.	2.6	34
35	Facile synthesis of $\text{Ni}_{11}(\text{HPO}_3)_8(\text{OH})_6/\text{rGO}$ nanorods with enhanced electrochemical performance for aluminum-ion batteries. <i>Nanoscale</i> , 2018, 10, 21284-21291.	2.8	34
36	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.	5.2	32

#	ARTICLE	IF	CITATIONS
37	Aluminum-Ion Asymmetric Supercapacitor Incorporating Carbon Nanotubes and an Ionic Liquid Electrolyte: Al/AlCl <sub>3</sub> -[EMIm]Cl/CNTs. <i>Energy Technology</i> , 2016, 4, 1112-1118.	1.8	30
38	The molten chlorides for aluminum-graphite rechargeable batteries. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153285.	2.8	30
39	The effect of graphitization degree of carbonaceous material on the electrochemical performance for aluminum-ion batteries. <i>RSC Advances</i> , 2019, 9, 38990-38997.	1.7	29
40	Coral-Like TeO <sub>2</sub> Microwires for Rechargeable Aluminum Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2416-2422.	3.2	29
41	Coordination interaction boosts energy storage in rechargeable Al battery with a positive electrode material of CuSe. <i>Chemical Engineering Journal</i> , 2021, 421, 127792.	6.6	28
42	The Effects of Anions Behaviors on Electrochemical Properties of Al/Graphite Rechargeable Aluminum-Ion Battery via Molten AlCl <sub>3</sub> -NaCl Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3292-A3302.	1.3	27
43	Production of AlCrNbTaTi High Entropy Alloy via Electro-Deoxidation of Metal Oxides. <i>Journal of the Electrochemical Society</i> , 2018, 165, D574-D579.	1.3	27
44	Single-crystal and hierarchical VSe <sub>2</sub> as an aluminum-ion battery cathode. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2717-2724.	2.5	26
45	Electrochemical graphitization conversion of CO <sub>2</sub> through soluble NaVO <sub>3</sub> homogeneous catalyst in carbonate molten salt. <i>Electrochimica Acta</i> , 2020, 331, 135461.	2.6	26
46	Liquid gallium as long cycle life and recyclable negative electrode for Al-ion batteries. <i>Chemical Engineering Journal</i> , 2020, 391, 123594.	6.6	25
47	A nitrogen-doped graphene cathode for high-capacitance aluminum-ion hybrid supercapacitors. <i>New Journal of Chemistry</i> , 2018, 42, 15684-15691.	1.4	24
48	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.	1.3	24
49	Hierarchical N-doped porous carbon hosts for stabilizing tellurium in promoting Al-Te batteries. <i>Journal of Energy Chemistry</i> , 2021, 57, 378-385.	7.1	23
50	3D skeleton nanostructured Ni <sub>3</sub> S <sub>2</sub> /Ni foam@RGO composite anode for high-performance dual-ion battery. <i>Journal of Energy Chemistry</i> , 2019, 28, 144-150.	7.1	22
51	NiCo <sub>2</sub> S <sub>4</sub> Nanosheet with Hexagonal Architectures as an Advanced Cathode for Al-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A3504-A3509.	1.3	21
52	Cellulose-derived flake graphite as positive electrodes for Al-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3561-3568.	2.5	21
53	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.	5.2	20
54	Hierarchical Flower-Like MoS <sub>2</sub> Microspheres and Their Efficient Al Storage Properties. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26794-26802.	1.5	20

#	ARTICLE	IF	CITATIONS
55	Cu-Al Composite as the Negative Electrode for Long-life Al-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3539-A3545.	1.3	20
56	A Rechargeable Al/Graphite Battery Based on $\text{AlCl}_3$ /1-butyl-3-methylimidazolium Chloride Ionic Liquid Electrolyte. <i>ChemistrySelect</i> , 2019, 4, 3018-3024.	0.7	20
57	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.	1.3	20
58	Preparation of porous nanorod polyaniline film and its high electrochemical capacitance performance. <i>Synthetic Metals</i> , 2011, 161, 1255-1258.	2.1	19
59	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.	5.8	19
60	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.	5.6	19
61	Photo-electrochemical enhanced mechanism enables a fast-charging and high-energy aqueous Al/MnO <sub>2</sub> battery. <i>Energy Storage Materials</i> , 2022, 45, 586-594.	9.5	19
62	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.	1.3	17
63	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.	2.6	17
64	A dual-protection strategy using CMK-3 coated selenium and modified separators for high-energy Al-Se batteries. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 1030-1038.	3.0	16
65	Design Strategies of High-Performance Positive Materials for Nonaqueous Rechargeable Aluminum Batteries: From Crystal Control to Battery Configuration. <i>Small</i> , 2022, 18, .	5.2	15
66	Nanostructured Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> synthesized in a reverse micelle: A bridge between pseudocapacitor and lithium ion battery. <i>Electrochimica Acta</i> , 2012, 68, 254-259.	2.6	14
67	Enhanced intercalation behaviors of edge-rich flakes-stacked graphite for Al-graphite dual-ion battery. <i>Journal of Power Sources</i> , 2021, 492, 229674.	4.0	14
68	Direct Production of Fe and Fe-Ni Alloy via Molten Oxides Electrolysis. <i>Journal of the Electrochemical Society</i> , 2017, 164, E113-E116.	1.3	13
69	Production of Ti-Fe alloys via molten oxide electrolysis at a liquid iron cathode. <i>RSC Advances</i> , 2018, 8, 17575-17581.	1.7	13
70	Green preparation of vanadium carbide through one-step molten salt electrolysis. <i>Ceramics International</i> , 2021, 47, 28203-28209.	2.3	13
71	Stable Interface between a $\text{NaCl}/\text{AlCl}_3$ Melt and a Liquid Ga Negative Electrode for a Long-Life Stationary Al-Ion Energy Storage Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15063-15070.	4.0	12
72	High Specific Capacitance Based on N-Doped Microporous Carbon in [EMIm]Al <sub>x</sub> Cl <sub>y</sub> Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3319-A3325.	1.3	10

#	ARTICLE	IF	CITATIONS
73	An investigation into the anodic behavior of TiB <sub>2</sub> in a CaCl <sub>2</sub> -based molten salt. <i>Corrosion Science</i> , 2021, 178, 109089.	3.0	10
74	Controllable Cu <sub>2</sub> O@Cu nanoparticle electrodeposition onto carbon paper and its superior photoelectrochemical performance. <i>RSC Advances</i> , 2014, 4, 16380.	1.7	9
75	Rapid Electrodeposition of Ti on a Liquid Zn Cathode from a Consumable Casting TiC <sub>0.5</sub> O <sub>0.5</sub> Anode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 123502.	1.3	9
76	Graphene-encapsulated selenium@polyaniline nanowires with three-dimensional hierarchical architecture for high-capacity aluminum-selenium batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15146-15154.	5.2	9
77	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.	2.0	8
78	A novel ordered SiO <sub>x</sub> C <sub>y</sub> film anode fabricated via electrodeposition in air for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2467.	5.2	8
79	A strategy for massively suppressing the shuttle effect in rechargeable Al-Te batteries. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4000-4009.	3.0	8
80	Rechargeable High-Capacity Antimony-Aluminum Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 080541.	1.3	8
81	Electrochemical behavior of NiCl <sub>2</sub> /Ni in acidic AlCl <sub>3</sub> -based ionic liquid electrolyte. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1909-1917.	3.0	8
82	Stable and low-voltage-hysteresis zinc negative electrode promoting aluminum dual-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 430, 132743.	6.6	8
83	Sb <sub>2</sub> Te <sub>3</sub> Hexagonal Nanosheets as High-Capacity Positive Materials for Rechargeable Aluminum Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 12635-12643.	2.5	7
84	Core-shell Si@N-doped C assembled via an oxidative template for lithium-ion anodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18549.	1.3	6
85	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.	1.3	6
86	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.	1.3	6
87	Preparation of petaloid graphite nanoflakes in molten salt for high-performance lithium-ion batteries. <i>Ionics</i> , 2020, 26, 3351-3358.	1.2	6
88	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.	1.3	5
89	Nanosheet-stacked flake graphite for high-performance Al storage in inorganic molten AlCl <sub>3</sub> -NaCl salt. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 1711-1722.	2.4	5
90	Facile Electrochemical Preparation of Al-Sm Alloys in Molten Calcium Chloride. <i>Journal of the Electrochemical Society</i> , 2018, 165, E616-E621.	1.3	3

#	ARTICLE	IF	CITATIONS
91	Enhanced storage behavior of quasi-solid-state aluminum-selenium battery. RSC Advances, 2021, 11, 39484-39492.	1.7	3
92	Effect of Laser Remelting on Microstructure, Residual Stress, and Mechanical Property of Selective Laser Melting-Processed Ti-6Al-4V Alloy. Minerals, Metals and Materials Series, 2021, , 92-99.	0.3	0