Jie Shu

List of Publications by Citations

125 papers	2,700 citations	33 h-index	46 g-index
132 ext. papers	3,481 ext. citations	8.7 avg, IF	5.47 L-index

#	Paper	IF	Citations
125	TiNb 2 O 7 hollow nanofiber anode with superior electrochemical performance in rechargeable lithium ion batteries. *Nano Energy*, **2017**, 38, 109-117	17.1	122
124	Advanced electrochemical properties of Mo-doped Li4Ti5O12 anode material for power lithium ion battery. *RSC Advances*, **2012**, 2, 3541	3.7	112
123	Heteroatom-doped carbon-based materials for lithium and sodium ion batteries. *Energy Storage Materials*, **2020**, 32, 65-90	19.4	89
122	Metal selenides for high performance sodium ion batteries. *Chemical Engineering Journal*, **2020**, 380, 122557	14.7	86
121	Deep insights into kinetics and structural evolution of nitrogen-doped carbon coated TiNb24O62 nanowires as high-performance lithium container. *Nano Energy*, **2018**, 54, 227-237	17.1	71
120	Highly porous TiO2 hollow microspheres constructed by radially oriented nanorods chains for high capacity, high rate and long cycle capability lithium battery. *Nano Energy*, **2015**, 16, 339-349	17.1	70
119	Lithiation mechanism of hierarchical porous MoO2 nanotubes fabricated through one-step carbothermal reduction. *Journal of Materials Chemistry A*, **2014**, 2, 80-86	13	67
118	W3Nb14O44 nanowires: Ultrastable lithium storage anode materials for advanced rechargeable batteries. *Energy Storage Materials*, **2019**, 16, 535-544	19.4	65
117	New insights into understanding the exceptional electrochemical performance of P2-type manganese-based layered oxide cathode for sodium ion batteries. *Energy Storage Materials*, **2018**, 15, 257-265	19.4	61
116	Electrochemical potassium/lithium-ion intercalation into TiSe2: Kinetics and mechanism. *Energy Storage Materials*, **2019**, 16, 512-518	19.4	61
115	Recent developments in the doping and surface modification of LiFePO4 as cathode material for power lithium ion battery. *Ionics*, **2012**, 18, 529-539	2.7	60
114	Electrospun WNb12O33 nanowires: superior lithium storage capability and their working mechanism. *Journal of Materials Chemistry A*, **2017**, 5, 8972-8980	13	58
113	FeNb11O29 nanotubes: Superior electrochemical energy storage performance and operating mechanism. *Nano Energy*, **2019**, 58, 399-409	17.1	56
112	Functional cation defects engineering in TiS2 for high-stability anode. *Nano Energy*, **2020**, 67, 104295	17.1	55
111	High performance Na-doped lithium zinc titanate as anode material for Li-ion batteries. *RSC Advances*, **2015**, 5, 49890-49898	3.7	51
110	A comparative study of overdischarge behaviors of cathode materials for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2012**, 16, 819-824	2.6	50
109	Large-scale synthesis of Li1.15V3O8 nanobelts and their lithium storage behavior studied by in situ X-ray diffraction. *Journal of Materials Chemistry*, **2012**, 22, 3035		50

108	K2Nb8O21 nanotubes with superior electrochemical performance for ultrastable lithium storage. *Journal of Materials Chemistry A*, **2018**, 6, 8620-8632	13	48
107	In situ fabrication of Li4Ti5O12@CNT composites and their superior lithium storage properties. *RSC Advances*, **2012**, 2, 10306	3.7	46
106	Design and comparison of ex situ and in situ devices for Raman characterization of lithium titanate anode material. *Ionics*, **2011**, 17, 503-509	2.7	45
105	High-Rate Long-Life Pored Nanoribbon VNbO Built by Interconnected Ultrafine Nanoparticles as Anode for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 30608-30616	9.5	43
104	K6Nb10.8O30 groove nanobelts as high performance lithium-ion battery anode towards long-life energy storage. *Nano Energy*, **2018**, 52, 192-202	17.1	41
103	Ultrathin W9Nb8O47 nanofibers modified with thermal NH3 for superior electrochemical energy storage. *Energy Storage Materials*, **2018**, 14, 159-168	19.4	39
102	Insight into the Synergistic Effect of N, S Co-Doping for Carbon Coating Layer on Niobium Oxide Anodes with Ultra-Long Life. *Advanced Functional Materials*, **2021**, 31, 2100311	15.6	39
101	Controllable defect engineering enhanced bond strength for stable electrochemical energy storage. *Nano Energy*, **2021**, 79, 105460	17.1	39
100	Self-assembly of hybrid Fe2Mo3O8□educed graphene oxide nanosheets with enhanced lithium storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 4468	13	37
99	BaNb3.6O10 nanowires with superior electrochemical performance towards ultrafast and highly stable lithium storage. *Energy Storage Materials*, **2019**, 16, 400-410	19.4	35
98	Kinetic study on LiFePO4-positive electrode material of lithium-ion battery. *Ionics*, **2011**, 17, 437-441	2.7	35
97	A New Look at Lithium Cobalt Oxide in a Broad Voltage Range for Lithium-Ion Batteries. *Journal of Physical Chemistry C*, **2010**, 114, 3323-3328	3.8	35
96	Electrospun porous LiNb3O8 nanofibers with enhanced lithium-storage properties. *Journal of Materials Chemistry A*, **2013**, 1, 15053	13	34
95	A TiSe -Graphite Dual Ion Battery: Fast Na-Ion Insertion and Excellent Stability. *Angewandte Chemie - International Edition*, **2021**, 60, 18430-18437	16.4	34
94	Review on niobium-based chalcogenides for electrochemical energy storage devices: Application and progress. *Nano Energy*, **2019**, 65, 104049	17.1	33
93	SrLi2Ti6O14: A probable host material for high performance lithium storage. *Electrochimica Acta*, **2015**, 180, 831-844	6.7	33
92	A compact Bi2WO6 microflowers anode for potassium-ion storage: Taming a sequential phase evolution toward stable electrochemical cycling. *Nano Energy*, **2021**, 82, 105784	17.1	33
91	Tin/tin antimonide alloy nanoparticles embedded in electrospun porous carbon fibers as anode materials for lithium-ion batteries. *Journal of Materials Science*, **2019**, 54, 9025-9033	4.3	32

90	Boosting Coulombic Efficiency of Conversion-Reaction Anodes for Potassium-Ion Batteries via Confinement Effect. *Advanced Functional Materials*, **2020**, 30, 2007712	15.6	30
89	GITT studies on oxide cathode LiNi1/3Co1/3Mn1/3O2 synthesized by citric acid assisted high-energy ball milling. *Bulletin of Materials Science*, **2013**, 36, 495-498	1.7	28
88	Preparation of TiNb6O17 nanospheres as high-performance anode candidates for lithium-ion storage. *Chemical Engineering Journal*, **2019**, 374, 937-946	14.7	27
87	Polymorphism-Controlled Electrochemical Energy Storage Performance of LiNbWO6. *Chemistry of Materials*, **2020**, 32, 3376-3384	9.6	26
86	Cu2Nb34O87 nanowires as a superior lithium storage host in advanced rechargeable batteries. *Inorganic Chemistry Frontiers*, **2021**, 8, 444-451	6.8	24
85	Readily Exfoliated TiSe Nanosheets for High-Performance Sodium Storage. *Chemistry - A European Journal*, **2018**, 24, 1193-1197	4.8	24
84	Facile fabrication of Pb(NO3)2/C as advanced anode material and its lithium storage mechanism. *Electrochimica Acta*, **2014**, 120, 110-121	6.7	22
83	Cerium vanadate nanoparticles as a new anode material for lithium ion batteries. *RSC Advances*, **2013**, 3, 7403	3.7	21
82	Carbon-Enhanced Electrochemical Performance for Spinel Li5Cr7Ti6O25 as a Lithium Host Material. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 957-964	8.3	20
81	Lithium storage behavior of manganese based complex spinel titanate as anode material for Li-ion batteries. *Journal of Power Sources*, **2014**, 272, 622-628	8.9	20
80	Surface Behaviors of Conductive Acetylene Black for Lithium-Ion Batteries at Extreme Working Temperatures. *Journal of Physical Chemistry C*, **2011**, 115, 6954-6960	3.8	20
79	Rapid and durable electrochemical storage behavior enabled by V4Nb18O55 beaded nanofibers: a joint theoretical and experimental study. *Journal of Materials Chemistry A*, **2018**, 6, 17389-17400	13	19
78	Facile preparation of nano-micro structure PbSbO2Cl as a novel anode material for lithium-ion batteries. *RSC Advances*, **2013**, 3, 372-376	3.7	19
77	Effect of Sodium-Site Doping on Enhancing the Lithium Storage Performance of Sodium Lithium Titanate. *ACS Applied Materials & Interfaces*, **2016**, 8, 10302-14	9.5	19
76	Lab-Scale In Situ X-Ray Diffraction Technique for Different Battery Systems: Designs, Applications, and Perspectives. *Small Methods*, **2019**, 3, 1900119	12.8	18
75	Structure and physical properties of Li4Ti5O12 synthesized at deoxidization atmosphere. *Ionics*, **2011**, 17, 799-803	2.7	18
74	Hydrogen Bond-Assisted Ultra-Stable and Fast Aqueous NH Storage. *Nano-Micro Letters*, **2021**, 13, 139	19.5	17
73	Advanced BaLi2Ti6O14 Anode Fabricated via Lithium Site Substitution by Magnesium. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4859-4867	8.3	17

72	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. *ACS Applied Materials & Interfaces*, **2019**, 11, 46705-46713	9.5	17
71	Ex situ FTIR spectroscopy study of LiVPO4F as cathode material for lithium-ion batteries. *Ionics*, **2013**, 19, 725-730	2.7	16
70	Enhanced lithium storage performance of Li 5 Cr 9 Ti 4 O 24 anode by nitrogen and sulfur dual-doped carbon coating. *Electrochimica Acta*, **2016**, 213, 217-224	6.7	16
69	Cu(PO): Novel Anion Convertor for Aqueous Dual-Ion Battery. *Nano-Micro Letters*, **2021**, 13, 41	19.5	16
68	Electrospun one-dimensional BaLi2Ti6O14 nanofibers for high rate performing lithium-ion battery. *Materials Today Energy*, **2016**, 1-2, 17-23	7	15
67	Observation of ZrNbO Nanowires as a Lithium Container via In Situ and Ex Situ Techniques for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 22429-22438	9.5	14
66	Improved electrochemical property of Pb(NO3)2 by carbon black, graphene and carbon nanotube. *Electrochimica Acta*, **2014**, 137, 767-773	6.7	14
65	LiCrTiO4 Nanowires with the (111) Peak Evolution during Cycling for High-Performance Lithium Ion Battery Anodes. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10580-10587	8.3	14
64	Inverted polymer solar cells with enhanced fill factor by inserting the potassium stearate interfacial modification layer. *Applied Physics Letters*, **2016**, 108, 181602	3.4	14
63	LiY(MoO4)2 nanotubes: Novel zero-strain anode for electrochemical energy storage. *Energy Storage Materials*, **2019**, 21, 297-307	19.4	13
62	Lithium, sodium and potassium storage behaviors of Pb3Nb4O13 nanowires for rechargeable batteries. *Ceramics International*, **2018**, 44, 17094-17101	5.1	13
61	Ba0.9La0.1Li2Ti6O14: Advanced lithium storage material for lithium-ion batteries. *Electrochimica Acta*, **2017**, 232, 132-141	6.7	12
60	Nano-structured GeNb18O47 as novel anode host with superior lithium storage performance. *Electrochimica Acta*, **2018**, 282, 634-641	6.7	12
59	Facile fabrication of conducting hollow carbon nanofibers/Si composites for copper phthalocyanine-based field effect transistors and high performance lithium-ion batteries. *RSC Advances*, **2012**, 2, 8323	3.7	12
58	Facile controlled growth of silica on carbon spheres and their superior electrochemical properties. *RSC Advances*, **2012**, 2, 5806	3.7	11
57	Li+ transportation kinetics of FeF3 □0.33H2O/C nanocomposite synthesized by one-step solid state method. *Ionics*, **2014**, 20, 1285-1290	2.7	10
56	The intercalation/deintercalation kinetic studies on the structure-integrated cathode material 0.5Li2MnO3 0.5LiNi0.5Mn0.5O2. *Ionics*, **2013**, 19, 1509-1514	2.7	10
55	Insight into the electrolyte strategies for aqueous zinc ion batteries. *Coordination Chemistry Reviews*, **2022**, 452, 214297	23.2	10

54	Interlayer gap widened TiS2 for highly efficient sodium-ion storage. *Journal of Materials Science and Technology*, **2022**, 107, 64-69	9.1	10
53	HKTiNbO Nanowires Enabling High-Performance Lithium-Ion Uptake. *ACS Applied Materials & Interfaces*, **2019**, 11, 9136-9143	9.5	10
52	VNb9O25 nanowires with superior electrochemical property towards lithium ion batteries. *Ceramics International*, **2019**, 45, 18111-18114	5.1	9
51	Constructing Hollow Nanofibers To Boost Electrochemical Performance: Insight into Kinetics and the Li Storage Mechanism for CrNb49O124. *ACS Applied Energy Materials*, **2019**, 2, 2672-2679	6.1	9
50	Commercially available InSb as a high-performance anode for secondary batteries towards superior lithium storage. *Sustainable Energy and Fuels*, **2019**, 3, 2668-2674	5.8	9
49	LiNi1/3Co1/3Mn1/3O2 cathode materials for LIB prepared by spray pyrolysis I: the spectral, structural, and electro-chemical properties. *Ionics*, **2013**, 19, 41-46	2.7	9
48	Enhanced lithium storage property of Na-doped Li2Na2Ti6O14 anode materials for secondary lithium-ion batteries. *RSC Advances*, **2015**, 5, 41999-42008	3.7	9
47	Rational construction and decoration of Fe0.5Nb24.5O62□@C nanowires as superior anode material for lithium storage. *Chemical Engineering Journal*, **2020**, 384, 123314	14.7	9
46	The journey of lithium ions in the lattice of PNb9O25. *Materials Chemistry Frontiers*, **2020**, 4, 631-637	7.8	9
45	Prussian Blue Analogues in Aqueous Batteries and Desalination Batteries. *Nano-Micro Letters*, **2021**, 13, 166	19.5	9
44	Highly efficient regular polymer solar cells based on Li-TFSI doping ZnO as electron-transporting interlayers. *Solar Energy*, **2018**, 169, 49-54	6.8	8
43	Sol-Gel Synthesis and in Situ X-ray Diffraction Study of LiNdWO as a Lithium Container. *ACS Applied Materials & Interfaces*, **2018**, 10, 12716-12721	9.5	6
42	Lithiation/Delithiation Behavior of Silver Nitrate as Lithium Storage Material for Lithium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 5686-5693	8.3	5
41	Micron-sized Na0.7MnO2.05 as cathode materials for aqueous rechargeable magnesium-ion batteries. *Ionics*, **2019**, 25, 4805-4815	2.7	5
40	LiNi1/3Co1/3Mn1/3O2 cathode materials for LIB prepared by spray pyrolysis. II. Li+ diffusion kinetics. *Ionics*, **2013**, 19, 47-52	2.7	5
39	Synthesis and characterization of GaNb11O29@C for high-performance lithium-ion battery. *Ceramics International*, **2020**, 46, 5913-5919	5.1	5
38	Facile synthesis of Y2(MoO4)3 nanowires as anode materials towards enhanced lithium storage performance. *Journal of Electroanalytical Chemistry*, **2019**, 841, 111-118	4.1	4
37	Understanding the lithium transport mechanism in Li9Cr3P8O29cathode material by molecular dynamics modeling. *Ionics*, **2019**, 25, 5689-5696	2.7	4

36	PNb9O25 nanofiber as a high-voltage anode material for advanced lithium ions batteries. *Journal of Materiomics*, **2020**, 6, 781-787	6.7	4
35	The facile in situ preparation and characterization of C/FeOF/FeF3 nanocomposites as LIB cathode materials. *Ionics*, **2018**, 24, 1561-1569	2.7	4
34	A TiSe2-Graphite Dual Ion Battery: Fast Na-Ion Insertion and Excellent Stability. *Angewandte Chemie* , **2021**, 133, 18578-18585	3.6	4
33	Issues and challenges of layered lithium nickel cobalt manganese oxides for lithium-ion batteries. *Journal of Electroanalytical Chemistry*, **2021**, 895, 115412	4.1	4
32	Common ion effect enhanced Prussian blue analogues for aqueous ammonium ion storage. *Dalton Transactions*, **2021**, 50, 6520-6527	4.3	4
31	Controllable C-N site assisting observable potential difference for homogeneous copper deposition in aqueous Cu-S batteries. *Energy Storage Materials*, **2022**, 48, 74-81	19.4	4
30	The differentiation of elementary polarizations of FeF3□3H2O/C cathode material in LIB. *Ionics*, **2015**, 21, 1003-1010	2.7	3
29	Thermal reactivity of three lithiated carbonaceous materials. *Ionics*, **2011**, 17, 183-188	2.7	3
28	Surface chemistry of LiFePO4 cathode material as unraveled by HRTEM and XPS. *Ionics*, **2021**, 27, 31-37	2.7	3
27	Understanding the sodium ion transport properties, deintercalation mechanism, and phase evolution of a NaMnSiO cathode by atomistic simulation. *Physical Chemistry Chemical Physics*, **2021**, 23, 1750-1758	3.6	3
26	Distribution of relaxation times investigation of (hbox {Co}^{3+}) doping lithium-rich cathode material (hbox {Li}[hbox {Li}_{0.2} hbox {Ni}_{0.1} hbox {Mn}_{0.5} hbox {Co}_{0.2}]hbox {O}_{2}). *Bulletin of Materials Science*, **2018**, 41, 1	1.7	3
25	Laser-Induced Graphene Assisting Self-Conversion Reaction for Sulfur-Free Aqueous Cu-S Battery. *Advanced Functional Materials*,2103893	15.6	3
24	Four-Electron Transfer Reaction Endows High Capacity for Aqueous Cu□e Battery. *Advanced Energy Materials*,2103998	21.8	3
23	Compositing SrLi2Ti6O14 with chemical deposited silver for enhancing lithium ion storage. *Ceramics International*, **2019**, 45, 6885-6890	5.1	2
22	Commercial Prussian blue: A highly efficient host for sodium storage. *Journal of Electroanalytical Chemistry*, **2020**, 870, 114263	4.1	2
21	The positive effect of nitridation on CrNb49O124 nanowires for high-performance lithium-ion storage. *Ceramics International*, **2020**, 46, 15527-15533	5.1	2
20	The determination of Li+ mobility in solid electrolyte Li1.3Al0.1Zn0.1Ti1.8P3O12 in view of ionic diffusivity and conductivity. *Ionics*, **2013**, 19, 731-737	2.7	2
19	Micronano Porous Mo2C@C Nanorods Composites as Robust Anodes for Li-ion Battery. *Energy Technology*, **2020**, 8, 2000189	3.5	2

18	Copper niobate nanowires boosted by a N, S co-doped carbon coating for superior lithium storage. *Dalton Transactions*, **2021**, 50, 11030-11038	4.3	2
17	Expounding the Initial Alloying Behavior of Na-K Liquid Alloy Electrodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 40118-40126	9.5	2
16	Pre-intercalation chemistry of electrode materials in aqueous energy storage systems. *Coordination Chemistry Reviews*, **2022**, 460, 214477	23.2	2
15	Engineering solid electrolyte interphase for the application of propylene carbonate solvent for graphite anode in low temperate battery. *Applied Surface Science*, **2022**, 598, 153740	6.7	2
14	In situ characterization of LiY(WO4)2 nanotubes for electrochemical energy storage. *Ceramics International*, **2019**, 45, 11812-11818	5.1	1
13	Potential dependent EIS investigation of FeF3 □0.33H2O/C nano-composite synthesized by one-step solid-state method. *Ionics*, **2015**, 21, 2247-2252	2.7	1
12	Micronano Porous Mo2C@C Nanorods Composites as Robust Anodes for Li-ion Battery. *Energy Technology*, **2020**, 8, 2070065	3.5	1
11	Studies on micron-sized Na0.7MnO2.05 with excellent cycling performance as a cathode material for aqueous rechargeable sodium-ion batteries. *Applied Physics A: Materials Science and Processing*, **2020**, 126, 1	2.6	1
10	Hydrothermal synthesis of □MnO2 nanorods for highly efficient zinc-ion storage. *Ionics*, **2021**, 27, 3943-3950	2.7	1
9	Lithium storage behaviors of PbNb2O6 in rechargeable batteries. *Ceramics International*, **2021**, 47, 26732-26737	5.1	1
8	An anode-free aqueous dual-ion battery. *Sustainable Energy and Fuels*,	5.8	1
7	Synergistic dual conversion reactions assisting Pb-S electrochemistry for energy storage.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2118675119	11.5	1
6	Disordered carbon coating free Li0.2375La0.5875TiO3: a superior perovskite anode material for high power long-life lithium-ion batteries. *Journal of Materials Science*, **2022**, 57, 2825	4.3	0
5	The finding of nickel extraction material: How nickel ferrocyanide offer excess capacity. *Nano Today* , **2021**, 41, 101327	17.9	0
4	Deep insight into the lithium transportation mechanism and lithium deintercalation study on □LiVOPO4 cathode material by atomistic simulation and first-principles method. *Journal of Power Sources*, **2021**, 503, 230061	8.9	0
3	The Nature of the Ultrahigh Initial Coulombic Efficiency of Ni2Fe(CN)6 in Aqueous Ammonium-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 9594-9599	6.1	0
2	Deep insight into the defect structure, lithium diffusion kinetics and deintercalation study on □LiVOPO4 cathode material by atomistic simulation method. *Journal of Energy Storage*, **2022**, 45, 103706	7.8	
1	Ultrathin carbon layer enhanced Cu2Nb34O87 nanowires as high-performance lithium host. *Ceramics International*, **2021**, 47, 24511-24518	5.1	