Jun Liu

List of Publications by Citations

75 papers	7,518 citations	32 h-index	75 g-index
75 ext. papers	8,476 ext. citations	8.7 avg, IF	5.9 L-index

#	Paper	IF	Citations
75	Self-assembled TiO2-graphene hybrid nanostructures for enhanced Li-ion insertion. *ACS Nano*, **2009**, 3, 907-14	16.7	1517
74	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. *Nature Energy*, **2016**, 1,	62.3	1461
73	Analysis of the chemical diffusion coefficient of lithium ions in Li3V2(PO4)3 cathode material. *Electrochimica Acta*, **2010**, 55, 2384-2390	6.7	468
72	Self-supported Li4Ti5O12-C nanotube arrays as high-rate and long-life anode materials for flexible Li-ion batteries. *Nano Letters*, **2014**, 14, 2597-603	11.5	365
71	Uniform yolk□shell Sn4P3@C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. *Energy and Environmental Science*, **2015**, 8, 3531-3538	35.4	350
70	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. *Journal of Materials Chemistry*, **2010**, 20, 9193		293
69	MOF-Derived Hollow Co9 S8 Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. *Small*, **2016**, 12, 2354-64	11	274
68	Low-Defect and Low-Porosity Hard Carbon with High Coulombic Efficiency and High Capacity for Practical Sodium Ion Battery Anode. *Advanced Energy Materials*, **2018**, 8, 1703238	21.8	262
67	Synthesis of Mo2N nanolayer coated MoO2 hollow nanostructures as high-performance anode materials for lithium-ion batteries. *Energy and Environmental Science*, **2013**, 6, 2691	35.4	215
66	Carbon-encapsulated pyrite as stable and earth-abundant high energy cathode material for rechargeable lithium batteries. *Advanced Materials*, **2014**, 26, 6025-30	24	192
65	Ultrathin Li3VO4 nanoribbon/graphene sandwich-like nanostructures with ultrahigh lithium ion storage properties. *Nano Energy*, **2015**, 12, 709-724	17.1	142
64	Dual yolk-shell structure of carbon and silica-coated silicon for high-performance lithium-ion batteries. *Scientific Reports*, **2015**, 5, 10908	4.9	141
63	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO2 Batteries. *Chemistry of Materials*, **2019**, 31, 2036-2047	9.6	119
62	Yolk-Shell Sn@C Eggette-like Nanostructure: Application in Lithium-Ion and Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 19438-45	9.5	109
61	Improved electrochemical performance of yolk-shell structured SnO2@void@C porous nanowires as anode for lithium and sodium batteries. *Journal of Power Sources*, **2016**, 324, 780-787	8.9	90
60	Free-standing V2O5 electrode for flexible lithium ion batteries. *Electrochemistry Communications*, **2011**, 13, 383-386	5.1	84
59	Hierarchical MoO2/Mo2C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 19987-93	9.5	78

58	New Prelithiated V2O5 Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. *ACS Energy Letters*, **2020**, 5, 31-38	20.1	78
57	Graphene nanosheets encapsulated □MoO3 nanoribbons with ultrahigh lithium ion storage properties. *CrystEngComm*, **2014**, 16, 6745-6755	3.3	75
56	Self-Assembly of Parallelly Aligned NiO Hierarchical Nanostructures with Ultrathin Nanosheet Subunits for Electrochemical Supercapacitor Applications. *ACS Applied Materials & Interfaces*, **2016**, 8, 780-91	9.5	73
55	Mechanism of Li+/Electron Conductivity in Rutile and Anatase TiO2 Nanoparticles. *Journal of Physical Chemistry C*, **2010**, 114, 20277-20283	3.8	68
54	Facile Synthesis of Na0.33V2O5 Nanosheet-Graphene Hybrids as Ultrahigh Performance Cathode Materials for Lithium Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 17433-40	9.5	65
53	Ultrafine Cobalt Phosphide Nanoparticles Embedded in Nitrogen-Doped Carbon Matrix as a Superior Anode Material for Lithium Ion Batteries. *Advanced Materials Interfaces*, **2017**, 4, 1700377	4.6	63
52	A stable nanoporous silicon anode prepared by modified magnesiothermic reactions. *Nano Energy*, **2016**, 20, 68-75	17.1	58
51	Li4Ti5O12 nanosheets as high-rate and long-life anode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 24446-24452	13	57
50	Novel Amorphous MoS2/MoO3/Nitrogen-Doped Carbon Composite with Excellent Electrochemical Performance for Lithium Ion Batteries and Sodium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 8025-8034	8.3	53
49	Effect of Chemical Lithium Insertion into Rutile TiO2 Nanorods. *Journal of Physical Chemistry C*, **2009**, 113, 14567-14574	3.8	51
48	Carbon fiber cloth@VO2 (B): excellent binder-free flexible electrodes with ultrahigh mass-loading. *Journal of Materials Chemistry A*, **2016**, 4, 6426-6432	13	51
47	Metal-Organic Frameworks derived novel hierarchical durian-like nickel sulfide (NiS2) as an anode material for high-performance sodium-ion batteries. *Materials Letters*, **2017**, 197, 180-183	3.3	49
46	Dynamics of Coupled Lithium/Electron Diffusion in TiO2 Polymorphs. *Journal of Physical Chemistry C*, **2009**, 113, 20998-21007	3.8	44
45	Ultrafine MoO2 nanoparticles grown on graphene sheets as anode materials for lithium-ion batteries. *Materials Letters*, **2014**, 127, 32-35	3.3	40
44	Hollow bean-pod-like SiO2-supported-SnO2/C nanocomposites for durable lithium and sodium storage. *Journal of Materials Chemistry A*, **2017**, 5, 1629-1636	13	36
43	Porous Mo2N nanobelts as a new anode material for sodium-ion batteries. *Materials Letters*, **2016**, 172, 56-59	3.3	32
42	Effects of TiO2 phase on the performance of Li4Ti5O12 anode for lithium-ion batteries. *Journal of Alloys and Compounds*, **2016**, 689, 812-819	5.7	29
41	Facile synthesis of uniform MoO2/Mo2CTx heteromicrospheres as high-performance anode materials for lithium-ion batteries. *Journal of Power Sources*, **2017**, 363, 392-403	8.9	26

40	MnO2 nanolayer coated on carbon cloth as a high-activity aqueous zinc-ion battery cathode with high-capacity and long-cycle-life. *Materials Letters*, **2019**, 248, 207-210	3.3	25
39	High-Performance Aqueous Zinc-Manganese Battery with Reversible Mn/Mn Double Redox Achieved by Carbon Coated MnO Nanoparticles. *Nano-Micro Letters*, **2020**, 12, 110	19.5	25
38	Self-healing active anticorrosion coatings with polyaniline/cerium nitrate hollow microspheres. *Surface and Coatings Technology*, **2018**, 341, 64-70	4.4	23
37	Synthesis of mesoporous Co 3 O 4 nanosheet-assembled hollow spheres towards efficient electrocatalytic oxygen evolution. *Journal of Alloys and Compounds*, **2018**, 754, 72-77	5.7	22
36	Synthesis of coral-like Fe2N@C nanoparticles and application in sodium ion batteries as a novel anode electrode material. *RSC Advances*, **2016**, 6, 86131-86136	3.7	22
35	Synthesis of hollow porous ZnCo2O4 microspheres as high-performance oxygen reduction reaction electrocatalyst. *International Journal of Hydrogen Energy*, **2016**, 41, 13024-13031	6.7	22
34	Layer-by-layer self-assembly of graphene-like Co3O4 nanosheet/graphene hybrids: Towards high-performance anode materials for lithium-ion batteries. *Journal of Alloys and Compounds*, **2016**, 667, 29-35	5.7	22
33	Facile synthesis of multiwalled carbon nanotube V2O5 nanocomposites as cathode materials for Li-ion batteries. *Journal of Solid State Electrochemistry*, **2014**, 18, 2841-2846	2.6	18
32	Porous VO(x)N(y) nanoribbons supported on CNTs as efficient and stable non-noble electrocatalysts for the oxygen reduction reaction. *Scientific Reports*, **2015**, 5, 17385	4.9	18
31	A three-dimensional surface modified carbon cloth designed as flexible current collector for high-performance lithium and sodium batteries. *Journal of Alloys and Compounds*, **2017**, 726, 837-845	5.7	16
30	Controlled fabrication of GaOOH with a novel needle-like submicron tubular structure and its enhanced photocatalytic performance. *Journal of Alloys and Compounds*, **2015**, 644, 485-490	5.7	15
29	Na0.33V2O5 nanosheet@graphene composites: Towards high performance cathode materials for sodium ion batteries. *Materials Letters*, **2016**, 183, 346-350	3.3	14
28	Novel one-step in situ growth of SnO2 quantum dots on reduced graphene oxide and its application for lithium ion batteries. *Journal of Solid State Chemistry*, **2019**, 273, 128-131	3.3	13
27	Self-assembly of single layer V2O5 nanoribbon/graphene heterostructures as ultrahigh-performance cathode materials for lithium-ion batteries. *Carbon*, **2019**, 154, 24-32	10.4	13
26	Large-scale synthesis of hierarchical SnO spheres assisted with poly (N-isopropylacrylamide) for high lithium storage capacity. *Ceramics International*, **2019**, 45, 1246-1250	5.1	13
25	Ultrafine Ni2P nanoparticles embedded in one-dimensional carbon skeleton derived from metal-organic frameworks template as a high-performance anode for lithium ion battery. *Journal of Alloys and Compounds*, **2019**, 775, 490-497	5.7	11
24	Polyaniline/zinc/cerium nitrate pigment for epoxy based anticorrosion coatings. *Reactive and Functional Polymers*, **2018**, 131, 22-28	4.6	10
23	Super-thin LiV3O8 nanosheets/graphene sandwich-like nanostructures with ultrahigh lithium ion storage properties. *Ceramics International*, **2019**, 45, 2968-2976	5.1	10

22	A unique intricate hollow Si nanocomposite designed for lithium storage. *Journal of Alloys and Compounds*, **2018**, 758, 177-183	5.7	10
21	Hollow paramecium-like SnO2/TiO2 heterostructure designed for sodium storage. *Journal of Solid State Chemistry*, **2019**, 274, 176-181	3.3	9
20	Synergistical coupling Janus SnS-Fe1-xS heterostructure cell and polydopamine-derived S doped carbon as high-rate anodes for sodium-ion batteries. *Chemical Engineering Journal*, **2021**, 425, 130534	14.7	9
19	Core□hell MoO 2 /C nanospheres embedded in bubble sheet-like carbon film as lithium ion Battery anodes. *Materials Letters*, **2017**, 199, 139-142	3.3	7
18	Intercalation assembly of Li3VO4 nanoribbons/graphene sandwich-structured composites with enhanced oxygen reduction catalytic performance. *Journal of Alloys and Compounds*, **2015**, 646, 837-842	5.7	7
17	Preparation of dual-shell Si/TiO2/CFs composite and its lithium storage performance. *Transactions of Nonferrous Metals Society of China*, **2019**, 29, 2384-2391	3.3	7
16	In-situ grown ultrathin MoS2 nanosheets on MoO2 hollow nanospheres to synthesize hierarchical nanostructures and its application in lithium-ion batteries. *Ionics*, **2019**, 25, 1487-1494	2.7	6
15	Synthesis of □Fe2O3@SnO2 core-shell nanoparticles via low-temperature molten salt reaction route. *Transactions of Nonferrous Metals Society of China*, **2015**, 25, 3651-3656	3.3	6
14	NiCo2O4 nanolayer cover on carbon cloth as anode materials for supercapacitors. *Journal of Sol-Gel Science and Technology*, **2019**, 89, 486-491	2.3	6
13	Gel-assisted synthesis of Cu Co S nanosheets for lithium-ion batteries. *Applied Surface Science*, **2019** , 488, 537-545	6.7	5
12	Core-shell structural iron based metal matrix composite powder for laser cladding. *Journal of Alloys and Compounds*, **2021**, 878, 160127	5.7	5
11	Hexagonal sheet-like tin disulfide@ graphene oxide prepared by a novel two-step method as anode material for high-performance lithium-ion batteries. *Materials Letters*, **2019**, 237, 29-33	3.3	4
10	Micro-sized FeS2@FeSO4 core-shell composite for advanced lithium storage. *Journal of Alloys and Compounds*, **2020**, 814, 151922	5.7	4
9	SnO@amorphous TiO2core-shell composite for advanced lithium storage. *Ceramics International*, **2019**, 45, 19404-19408	5.1	3
8	Magnetic Sn/SnO/FeSn2 nanocomposite as a high-performance anode material for lithium-ion batteries. *Powder Technology*, **2020**, 364, 719-724	5.2	3
7	Reaction mechanism and electrochemical performance of manganese (II) oxide in zinc ion batteries. *Solid State Ionics*, **2020**, 356, 115439	3.3	3
6	Characteristics of twins in Li(Ni0.67Co0.33)O2 as a cathode material for lithium-ion batteries. *Journal of Alloys and Compounds*, **2019**, 791, 1167-1175	5.7	1
5	Bubble-sheet-like Ni0.85Co2.15V2O8 nanosheets for high-rate lithium storage. *Ceramics International*, **2020**, 46, 14488-14495	5.1	1

4	Microstructure and mechanical properties of Fe3Al based alloy fabricated by laser metal deposition. *Materials Letters*, **2022**, 306, 130919	3.3	1
3	Enhancing lithium storage performance of metal sulfide compound via Fe1-xS/SnS@C complementary heterostructure design. *Journal of Power Sources*, **2022**, 536, 231460	8.9	1
2	Influence of powder characteristics on microstructure and mechanical properties of Inconel 718 superalloy manufactured by direct energy deposition. *Applied Surface Science*, **2022**, 583, 152545	6.7	0
1	Heterostructural MoO2/MoC2 microspheres for efficient electrocatalytic hydrogen evolution. *Materials Letters*, **2021**, 297, 129973	3.3	0