

Jun Liu

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.

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	Influence of powder characteristics on microstructure and mechanical properties of Inconel 718 superalloy manufactured by direct energy deposition. <i>Applied Surface Science</i> , 2022 , 583, 152545	6.7	0
74	Microstructure and mechanical properties of Fe ₃ Al based alloy fabricated by laser metal deposition. <i>Materials Letters</i> , 2022 , 306, 130919	3.3	1
73	Enhancing lithium storage performance of metal sulfide compound via Fe _{1-x} S/SnS@C complementary heterostructure design. <i>Journal of Power Sources</i> , 2022 , 536, 231460	8.9	1
72	Heterostructural MoO ₂ /MoC ₂ microspheres for efficient electrocatalytic hydrogen evolution. <i>Materials Letters</i> , 2021 , 297, 129973	3.3	0
71	Core-shell structural iron based metal matrix composite powder for laser cladding. <i>Journal of Alloys and Compounds</i> , 2021 , 878, 160127	5.7	5
70	Synergistical coupling Janus SnS-Fe _{1-x} S heterostructure cell and polydopamine-derived S doped carbon as high-rate anodes for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 425, 130534	14.7	9
69	High-Performance Aqueous Zinc-Manganese Battery with Reversible Mn/Mn Double Redox Achieved by Carbon Coated MnO Nanoparticles. <i>Nano-Micro Letters</i> , 2020 , 12, 110	19.5	25
68	Bubble-sheet-like Ni _{0.85} Co _{2.15} V ₂ O ₈ nanosheets for high-rate lithium storage. <i>Ceramics International</i> , 2020 , 46, 14488-14495	5.1	1
67	Magnetic Sn/SnO/FeSn ₂ nanocomposite as a high-performance anode material for lithium-ion batteries. <i>Powder Technology</i> , 2020 , 364, 719-724	5.2	3
66	New Prelithiated V ₂ O ₅ Superstructure for Lithium-Ion Batteries with Long Cycle Life and High Power. <i>ACS Energy Letters</i> , 2020 , 5, 31-38	20.1	78
65	Reaction mechanism and electrochemical performance of manganese (II) oxide in zinc ion batteries. <i>Solid State Ionics</i> , 2020 , 356, 115439	3.3	3
64	Micro-sized FeS ₂ @FeSO ₄ core-shell composite for advanced lithium storage. <i>Journal of Alloys and Compounds</i> , 2020 , 814, 151922	5.7	4
63	SnO@amorphous TiO ₂ core-shell composite for advanced lithium storage. <i>Ceramics International</i> , 2019 , 45, 19404-19408	5.1	3
62	Novel one-step in situ growth of SnO ₂ quantum dots on reduced graphene oxide and its application for lithium ion batteries. <i>Journal of Solid State Chemistry</i> , 2019 , 273, 128-131	3.3	13
61	In-situ grown ultrathin MoS ₂ nanosheets on MoO ₂ hollow nanospheres to synthesize hierarchical nanostructures and its application in lithium-ion batteries. <i>Ionics</i> , 2019 , 25, 1487-1494	2.7	6
60	Characteristics of twins in Li(Ni _{0.67} Co _{0.33})O ₂ as a cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 1167-1175	5.7	1
59	Gel-assisted synthesis of Cu Co S nanosheets for lithium-ion batteries. <i>Applied Surface Science</i> , 2019 , 488, 537-545	6.7	5

58	EMnO ₂ nanolayer coated on carbon cloth as a high-activity aqueous zinc-ion battery cathode with high-capacity and long-cycle-life. <i>Materials Letters</i> , 2019 , 248, 207-210	3.3	25
57	Hollow paramecium-like SnO ₂ /TiO ₂ heterostructure designed for sodium storage. <i>Journal of Solid State Chemistry</i> , 2019 , 274, 176-181	3.3	9
56	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO ₂ Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 2036-2047	9.6	119
55	Self-assembly of single layer V ₂ O ₅ nanoribbon/graphene heterostructures as ultrahigh-performance cathode materials for lithium-ion batteries. <i>Carbon</i> , 2019 , 154, 24-32	10.4	13
54	Preparation of dual-shell Si/TiO ₂ /CFs composite and its lithium storage performance. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 2384-2391	3.3	7
53	NiCo ₂ O ₄ nanolayer cover on carbon cloth as anode materials for supercapacitors. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 89, 486-491	2.3	6
52	Hexagonal sheet-like tin disulfide@ graphene oxide prepared by a novel two-step method as anode material for high-performance lithium-ion batteries. <i>Materials Letters</i> , 2019 , 237, 29-33	3.3	4
51	Super-thin LiV ₃ O ₈ nanosheets/graphene sandwich-like nanostructures with ultrahigh lithium ion storage properties. <i>Ceramics International</i> , 2019 , 45, 2968-2976	5.1	10
50	Ultrafine Ni ₂ P nanoparticles embedded in one-dimensional carbon skeleton derived from metal-organic frameworks template as a high-performance anode for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019 , 775, 490-497	5.7	11
49	Large-scale synthesis of hierarchical SnO spheres assisted with poly (N-isopropylacrylamide) for high lithium storage capacity. <i>Ceramics International</i> , 2019 , 45, 1246-1250	5.1	13
48	Synthesis of mesoporous Co ₃ O ₄ nanosheet-assembled hollow spheres towards efficient electrocatalytic oxygen evolution. <i>Journal of Alloys and Compounds</i> , 2018 , 754, 72-77	5.7	22
47	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
46	Polyaniline/zinc/cerium nitrate pigment for epoxy based anticorrosion coatings. <i>Reactive and Functional Polymers</i> , 2018 , 131, 22-28	4.6	10
45	Self-healing active anticorrosion coatings with polyaniline/cerium nitrate hollow microspheres. <i>Surface and Coatings Technology</i> , 2018 , 341, 64-70	4.4	23
44	A unique intricate hollow Si nanocomposite designed for lithium storage. <i>Journal of Alloys and Compounds</i> , 2018 , 758, 177-183	5.7	10
43	Metal-Organic Frameworks derived novel hierarchical durian-like nickel sulfide (NiS ₂) as an anode material for high-performance sodium-ion batteries. <i>Materials Letters</i> , 2017 , 197, 180-183	3.3	49
42	Core-shell MoO ₂ /C nanospheres embedded in bubble sheet-like carbon film as lithium ion Battery anodes. <i>Materials Letters</i> , 2017 , 199, 139-142	3.3	7
41	Hollow bean-pod-like SiO ₂ -supported-SnO ₂ /C nanocomposites for durable lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1629-1636	13	36

40	Ultrafine Cobalt Phosphide Nanoparticles Embedded in Nitrogen-Doped Carbon Matrix as a Superior Anode Material for Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700377	4.6	63
39	A three-dimensional surface modified carbon cloth designed as flexible current collector for high-performance lithium and sodium batteries. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 837-845	5.7	16
38	Facile synthesis of uniform MoO ₂ /Mo ₂ CT _x heteromicrospheres as high-performance anode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2017 , 363, 392-403	8.9	26
37	Novel Amorphous MoS ₂ /MoO ₃ /Nitrogen-Doped Carbon Composite with Excellent Electrochemical Performance for Lithium Ion Batteries and Sodium Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8025-8034	8.3	53
36	Na _{0.33} V ₂ O ₅ nanosheet@graphene composites: Towards high performance cathode materials for sodium ion batteries. <i>Materials Letters</i> , 2016 , 183, 346-350	3.3	14
35	Synthesis of coral-like Fe ₂ N@C nanoparticles and application in sodium ion batteries as a novel anode electrode material. <i>RSC Advances</i> , 2016 , 6, 86131-86136	3.7	22
34	Yolk-Shell Sn@C Egg-like Nanostructure: Application in Lithium-Ion and Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19438-45	9.5	109
33	Hierarchical MoO ₂ /Mo ₂ C/C Hybrid Nanowires as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19987-93	9.5	78
32	Improved electrochemical performance of yolk-shell structured SnO ₂ @void@C porous nanowires as anode for lithium and sodium batteries. <i>Journal of Power Sources</i> , 2016 , 324, 780-787	8.9	90
31	Reversible aqueous zinc/manganese oxide energy storage from conversion reactions. <i>Nature Energy</i> , 2016 , 1,	62.3	1461
30	Synthesis of hollow porous ZnCo ₂ O ₄ microspheres as high-performance oxygen reduction reaction electrocatalyst. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 13024-13031	6.7	22
29	Layer-by-layer self-assembly of graphene-like Co ₃ O ₄ nanosheet/graphene hybrids: Towards high-performance anode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 667, 29-35	5.7	22
28	Self-Assembly of Parallelly Aligned NiO Hierarchical Nanostructures with Ultrathin Nanosheet Subunits for Electrochemical Supercapacitor Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 780-91	9.5	73
27	Porous Mo ₂ N nanobelts as a new anode material for sodium-ion batteries. <i>Materials Letters</i> , 2016 , 172, 56-59	3.3	32
26	A stable nanoporous silicon anode prepared by modified magnesiothermic reactions. <i>Nano Energy</i> , 2016 , 20, 68-75	17.1	58
25	MOF-Derived Hollow Co ₉ S ₈ Nanoparticles Embedded in Graphitic Carbon Nanocages with Superior Li-Ion Storage. <i>Small</i> , 2016 , 12, 2354-64	11	274
24	Carbon fiber cloth@VO ₂ (B): excellent binder-free flexible electrodes with ultrahigh mass-loading. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6426-6432	13	51
23	Effects of TiO ₂ phase on the performance of Li ₄ Ti ₅ O ₁₂ anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 689, 812-819	5.7	29

22	Facile Synthesis of Na _{0.33} V ₂ O ₅ Nanosheet-Graphene Hybrids as Ultrahigh Performance Cathode Materials for Lithium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 17433-40	9.5	65
21	Controlled fabrication of FeGaOOH with a novel needle-like submicron tubular structure and its enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 485-490	5.7	15
20	Intercalation assembly of Li ₃ VO ₄ nanoribbons/graphene sandwich-structured composites with enhanced oxygen reduction catalytic performance. <i>Journal of Alloys and Compounds</i> , 2015 , 646, 837-842	5.7	7
19	Li ₄ Ti ₅ O ₁₂ nanosheets as high-rate and long-life anode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 24446-24452	13	57
18	Uniform yolk-shell Sn ₄ P ₃ @C nanospheres as high-capacity and cycle-stable anode materials for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2015 , 8, 3531-3538	35.4	350
17	Porous VO _x N _y nanoribbons supported on CNTs as efficient and stable non-noble electrocatalysts for the oxygen reduction reaction. <i>Scientific Reports</i> , 2015 , 5, 17385	4.9	18
16	Dual yolk-shell structure of carbon and silica-coated silicon for high-performance lithium-ion batteries. <i>Scientific Reports</i> , 2015 , 5, 10908	4.9	141
15	Synthesis of Fe ₂ O ₃ @SnO ₂ core-shell nanoparticles via low-temperature molten salt reaction route. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3651-3656	3.3	6
14	Ultrathin Li ₃ VO ₄ nanoribbon/graphene sandwich-like nanostructures with ultrahigh lithium ion storage properties. <i>Nano Energy</i> , 2015 , 12, 709-724	17.1	142
13	Self-supported Li ₄ Ti ₅ O ₁₂ -C nanotube arrays as high-rate and long-life anode materials for flexible Li-ion batteries. <i>Nano Letters</i> , 2014 , 14, 2597-603	11.5	365
12	Graphene nanosheets encapsulated FeMoO ₃ nanoribbons with ultrahigh lithium ion storage properties. <i>CrystEngComm</i> , 2014 , 16, 6745-6755	3.3	75
11	Facile synthesis of multiwalled carbon nanotube/V ₂ O ₅ nanocomposites as cathode materials for Li-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 2841-2846	2.6	18
10	Carbon-encapsulated pyrite as stable and earth-abundant high energy cathode material for rechargeable lithium batteries. <i>Advanced Materials</i> , 2014 , 26, 6025-30	24	192
9	Ultrafine MoO ₂ nanoparticles grown on graphene sheets as anode materials for lithium-ion batteries. <i>Materials Letters</i> , 2014 , 127, 32-35	3.3	40
8	Synthesis of Mo ₂ N nanolayer coated MoO ₂ hollow nanostructures as high-performance anode materials for lithium-ion batteries. <i>Energy and Environmental Science</i> , 2013 , 6, 2691	35.4	215
7	Free-standing V ₂ O ₅ electrode for flexible lithium ion batteries. <i>Electrochemistry Communications</i> , 2011 , 13, 383-386	5.1	84
6	Mechanism of Li ⁺ /Electron Conductivity in Rutile and Anatase TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20277-20283	3.8	68
5	Facile synthesized nanorod structured vanadium pentoxide for high-rate lithium batteries. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9193		293

4	Analysis of the chemical diffusion coefficient of lithium ions in $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ cathode material. <i>Electrochimica Acta</i> , 2010 , 55, 2384-2390	6.7	468
3	Self-assembled TiO_2 -graphene hybrid nanostructures for enhanced Li-ion insertion. <i>ACS Nano</i> , 2009 , 3, 907-14	16.7	1517
2	Effect of Chemical Lithium Insertion into Rutile TiO_2 Nanorods. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14567-14574	3.8	51
1	Dynamics of Coupled Lithium/Electron Diffusion in TiO_2 Polymorphs. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 20998-21007	3.8	44