

# Yu-Shi He

## List of Publications by Citations

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L-index

#	Paper	IF	Citations
77	Sulfur-based composite cathode materials for high-energy rechargeable lithium batteries. <i>Advanced Materials</i> , <b>2015</b> , 27, 569-75	24	247
76	Structure optimization of Prussian blue analogue cathode materials for advanced sodium ion batteries. <i>Chemical Communications</i> , <b>2014</b> , 50, 13377-80	5.8	161
75	Low-temperature performance of LiFePO <sub>4</sub> /C cathode in a quaternary carbonate-based electrolyte. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 691-694	5.1	161
74	Single-crystal nickel-rich layered-oxide battery cathode materials: synthesis, electrochemistry, and intra-granular fracture. <i>Energy Storage Materials</i> , <b>2020</b> , 27, 140-149	19.4	152
73	Electrochemical properties of P2-Na <sub>2/3</sub> [Ni <sub>1/3</sub> Mn <sub>2/3</sub> ]O <sub>2</sub> cathode material for sodium ion batteries when cycled in different voltage ranges. <i>Electrochimica Acta</i> , <b>2013</b> , 113, 200-204	6.7	144
72	A Co(OH) <sub>2</sub> /graphene nanosheets composite as a high performance anode material for rechargeable lithium batteries. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 570-573	5.1	129
71	Prussian blue without coordinated water as a superior cathode for sodium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 8181-4	5.8	122
70	Carbon coated SnO <sub>2</sub> nanoparticles anchored on CNT as a superior anode material for lithium-ion batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 4121-6	7.7	113
69	Facile Spray Drying Route for the Three-Dimensional Graphene-Encapsulated Fe <sub>2</sub> O <sub>3</sub> Nanoparticles for Lithium Ion Battery Anodes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 1197-1204	3.9	105
68	Multilayered Graphene Hydrogel Membranes for Guided Bone Regeneration. <i>Advanced Materials</i> , <b>2016</b> , 28, 4025-31	24	104
67	Self-Supporting Graphene Hydrogel Film as an Experimental Platform to Evaluate the Potential of Graphene for Bone Regeneration. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3494-3502	15.6	100
66	Electrochemical characteristics and intercalation mechanism of ZnS/C composite as anode active material for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1213-1218	6.7	84
65	Effects of fluorine-substitution on the electrochemical behavior of LiFePO <sub>4</sub> /C cathode materials. <i>Journal of Power Sources</i> , <b>2007</b> , 174, 720-725	8.9	79
64	A novel bath lily-like graphene sheet-wrapped nano-Si composite as a high performance anode material for Li-ion batteries. <i>RSC Advances</i> , <b>2011</b> , 1, 958	3.7	78
63	Electrochemical Behavior of LiFePO <sub>4</sub> /C Cathode Material for Rechargeable Lithium Batteries. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, A1969	3.9	75
62	Large-Scale Synthesis of NaNi <sub>1/3</sub> Fe <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> as High Performance Cathode Materials for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, A565-A570	3.9	72
61	Hierarchical sulfur-based cathode materials with long cycle life for rechargeable lithium batteries. <i>ChemSusChem</i> , <b>2014</b> , 7, 563-9	8.3	71

60	Synthesis and characterization of submicron-sized LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> by a simple self-propagating solid-state metathesis method. <i>Journal of Power Sources</i> , <b>2007</b> , 163, 1053-1058	8.9	71
59	Synthesis of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> -Fz cathode material from oxalate precursors for lithium ion battery. <i>Journal of Fluorine Chemistry</i> , <b>2007</b> , 128, 139-143	2.1	67
58	A Novel Synthesis Route for LiFePO <sub>4</sub> /C Cathode Materials for Lithium-Ion Batteries. <i>Electrochemical and Solid-State Letters</i> , <b>2004</b> , 7, A522		65
57	High voltage supercapacitors using hydrated graphene film in a neutral aqueous electrolyte. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 1166-1169	5.1	61
56	An experimental insight into the advantages of in situ solvothermal route to construct 3D graphene-based anode materials for lithium-ion batteries. <i>Nano Energy</i> , <b>2015</b> , 16, 235-246	17.1	56
55	Insight into Ca-Substitution Effects on O <sub>3</sub> -Type NaNi Fe Mn O Cathode Materials for Sodium-Ion Batteries Application. <i>Small</i> , <b>2018</b> , 14, e1704523	11	56
54	Superior high-rate cycling performance of LiFePO <sub>4</sub> /C-PPy composite at 55°C. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1277-1280	5.1	55
53	A solvothermal strategy: one-step in situ synthesis of self-assembled 3D graphene-based composites with enhanced lithium storage capacity. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9200-9207 <sup>13</sup>		53
52	One-Pot Spray-Dried Graphene Sheets-Encapsulated Nano-Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Microspheres for a Hybrid BatCap System. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 10849-10857	3.9	51
51	A flexible and binder-free reduced graphene oxide/Na <sub>2/3</sub> [Ni <sub>1/3</sub> Mn <sub>2/3</sub> ]O <sub>2</sub> composite electrode for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6723-6726	13	46
50	Direct scattered growth of MWNT on Si for high performance anode material in Li-ion batteries. <i>Chemical Communications</i> , <b>2010</b> , 46, 9149-51	5.8	42
49	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. <i>Nanoscale</i> , <b>2016</b> , 8, 2395-402	7.7	40
48	Improved cycling performance of prussian blue cathode for sodium ion batteries by controlling operation voltage range. <i>Electrochimica Acta</i> , <b>2017</b> , 225, 235-242	6.7	38
47	Nitrogen and Phosphorus Codoped Porous Carbon Framework as Anode Material for High Rate Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36969-36975	9.5	35
46	Incorporation of rubidium cations into Li <sub>1.2</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> Ni <sub>0.13</sub> O <sub>2</sub> layered oxide cathodes for improved cycling stability. <i>Electrochimica Acta</i> , <b>2017</b> , 231, 363-370	6.7	33
45	A novel graphene sheet-wrapped Co <sub>2</sub> (OH) <sub>3</sub> Cl composite as a long-life anode material for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16925-16930	13	33
44	Rational Design of the Robust Janus Shell on Silicon Anodes for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 17375-17383	9.5	29
43	Coaxial Carbon Nanotube Supported TiO@MoO@Carbon Core-Shell Anode for Ultrafast and High-Capacity Sodium Ion Storage. <i>ACS Nano</i> , <b>2019</b> , 13, 671-680	16.7	29

42	Carbon-coated FeP nanoparticles anchored on carbon nanotube networks as an anode for long-life sodium-ion storage. <i>Chemical Communications</i> , <b>2018</b> , 54, 11348-11351	5.8	29
41	Integrating in situ solvothermal approach synthesized nanostructured tin anchored on graphene sheets into film anodes for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 572-578	6.7	25
40	A Na <sub>4</sub> Fe(CN) <sub>6</sub> /NaCl solid solution cathode material with an enhanced electrochemical performance for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13417	13	25
39	Induction of Osteogenic Differentiation of Human Adipose-Derived Stem Cells by a Novel Self-Supporting Graphene Hydrogel Film and the Possible Underlying Mechanism. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20245-54	9.5	22
38	Biomimetic Glycopolypeptide Hydrogels with Tunable Adhesion and Microporous Structure for Fast Hemostasis and Highly Efficient Wound Healing. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2105628	15.6	22
37	Highly crystalline sodium manganese ferrocyanide microcubes for advanced sodium ion battery cathodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 22248-22256	13	21
36	Effectively incorporating iron, nitrogen, and sulfur functionalities on carbon surface for a superior electrocatalyst toward oxygen reduction reaction. <i>Electrochemistry Communications</i> , <b>2017</b> , 81, 34-37	5.1	19
35	Influence of lithium precursors and calcination atmospheres on graphene sheets-modified nano-Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anode material. <i>Journal of Power Sources</i> , <b>2015</b> , 285, 51-62	8.9	19
34	A nitrogen-containing carbon film derived from vapor phase polymerized polypyrrole as a fast charging/discharging capability anode for lithium-ion batteries. <i>Chemical Communications</i> , <b>2016</b> , 52, 1125-58	5.8	18
33	MXene Frameworks Promote the Growth and Stability of LiF-Rich Solid-Electrolyte Interphases on Silicon Nanoparticle Bundles. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18541-18550	9.5	18
32	Enhanced Electrochemical Performance of Nanofibrous CoO/CNF Cathode Catalyst for Li-O <sub>2</sub> Batteries. <i>Electrochimica Acta</i> , <b>2014</b> , 137, 183-189	6.7	18
31	Nanofibrous MnNi/CNF Composite Catalyst for Rechargeable Li/O <sub>2</sub> Cell. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A1112-A1117	3.9	17
30	Boosting the Sodiation Capability and Stability of FeP by In Situ Anchoring on the Graphene Conductive Framework. <i>ChemNanoMat</i> , <b>2018</b> , 4, 309-315	3.5	16
29	Synthesis and electrochemical characterization of LiFePO <sub>4</sub> /C-polypyrrole composite prepared by a simple chemical vapor deposition method. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 1383-1388	2.6	16
28	Electrochemical Performance of NaFeFe(CN) <sub>6</sub> Prepared by Solid Reaction for Sodium Ion Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A3910-A3917	3.9	16
27	Boosting potassium storage in nanosheet assembled MoSe <sub>2</sub> hollow sphere through surface decoration of MoO <sub>2</sub> nanoparticles. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144573	6.7	15
26	Cobalt phosphide embedded in a graphene nanosheet network as a high-performance anode for Li-ion batteries. <i>Dalton Transactions</i> , <b>2019</b> , 48, 7778-7785	4.3	14
25	Achieving highly reversible and fast sodium storage of Na <sub>4</sub> V <sub>2</sub> Mn(PO <sub>4</sub> ) <sub>3</sub> /C-rGO composite with low-fraction rGO via spray-drying technique. <i>Nano Energy</i> , <b>2021</b> , 89, 106462	17.1	14

24	A novel Co(phen) <sub>2</sub> /C catalyst for the oxygen electrode in rechargeable lithium air batteries. <i>Science Bulletin</i> , <b>2012</b> , 57, 1959-1963		13
23	N-doped pierced graphene microparticles as a highly active electrocatalyst for Li-air batteries. <i>2D Materials</i> , <b>2015</b> , 2, 024002	5.9	11
22	Rechargeable Li/O <sub>2</sub> Cell Based on a LiTFSI-DMMP/PFSA-Li Composite Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A1874-A1879	3.9	11
21	Structural Tuning of a Flexible and Porous Polypyrrole Film by a Template-Assisted Method for Enhanced Capacitance for Supercapacitor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 17726-17735	9.5	11
20	Urchin-like MoP Nanocrystals Embedded in N-Doped Carbon as High Rate Lithium Ion Battery Anode. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 7140-7145	6.1	10
19	Enhanced low-temperature performance of slight Mn-substituted LiFePO <sub>4</sub> /C cathode for lithium ion batteries. <i>Science Bulletin</i> , <b>2011</b> , 56, 1262-1266		9
18	Low-Cost Nickel Phosphide as an Efficient Bifunctional Cathode Catalyst for Li-O <sub>2</sub> Batteries. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, A2904-A2908	3.9	9
17	Improved Cycling Performance of P2-NaNiMnO Based on Sn Substitution Combined with Polypyrrole Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 3793-3804	9.5	9
16	Structural and chemical interplay between nano-active and encapsulation materials in a core-shell SnO <sub>2</sub> @MXene lithium ion anode system. <i>CrystEngComm</i> , <b>2021</b> , 23, 368-377	3.3	7
15	An Active Amorphous Carbon Material with Fe <sub>2</sub> C Nanocrystals Encapsulated as a High Performance Electrode for Lithium-Ion Batteries. <i>ChemistrySelect</i> , <b>2017</b> , 2, 1854-1859	1.8	6
14	Spray-dried assembly of 3D N,P-Co-doped graphene microspheres embedded with core-shell CoP/MoP@C nanoparticles for enhanced lithium-ion storage. <i>Dalton Transactions</i> , <b>2021</b> , 50, 4555-4566	4.3	6
13	Controlling Particle Size and Phase Purity of Single-Crystal LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> in Molten-Salt-Assisted Synthesis. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27937-27945	3.8	5
12	Surface Tuning to Promote the Electrocatalysis for Oxygen Evolution Reaction: From Metal-Free to Cobalt-Based Carbon Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 503-513	9.5	5
11	A Porous and Interconnected Polypyrrole Film with High Conductivity and Ion Accessibility as Electrode for Flexible All-Solid-State Supercapacitors. <i>ChemElectroChem</i> , <b>2019</b> , 6, 5479-5485	4.3	4
10	Regulating adhesion of solid-electrolyte interphase to silicon via covalent bonding strategy towards high Coulombic-efficiency anodes. <i>Nano Energy</i> , <b>2021</b> , 84, 105935	17.1	4
9	Revisiting the capacity-fading mechanism of P2-type sodium layered oxide cathode materials during high-voltage cycling. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 69, 16-25	12	3
8	Constructing a "pea-pod"-like nanostructure to provide valid conductive matrix and volume change accommodation for silicon anode in lithium ion batteries. <i>Green Chemical Engineering</i> , <b>2021</b> , 2, 327-335	3	2
7	Series resistance method to obtain equivalent circuit of piezoelectric resonator. <i>Electronics Letters</i> , <b>2012</b> , 48, 1054-1056	1.1	1

6	Preparation and performance of LiNi <sub>0.8</sub> Co <sub>0.2</sub> O <sub>2</sub> cathode material based on Co-substituted Ni(OH) <sub>2</sub> precursor. <i>Science Bulletin</i> , <b>2008</b> , 53, 1324-1328	10.6	1
5	Dopants modulate crystal growth in molten salts enabled by surface energy tuning. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 19675-19680	13	1
4	Constructing a catalytic reservoir using cobalt nanoparticles-MoS <sub>2</sub> @nitrogen doped carbon nanotubes on the separator to immobilize polysulfides and accelerate their conversion for lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136943	14.7	1
3	Synergistic antibacterial effect of graphene-coated titanium loaded with levofloxacin. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 208, 112090	6	0
2	Rapid Hard-Tissue-Embedding Method for Embedding Graphene Nanomaterials: A Multilayered Graphene Hydrogel Membrane. <i>Macromolecular Materials and Engineering</i> , <b>2021</b> , 306, 2000535	3.9	
1	Experimental insight into the structure-property relationship and lithium storage mechanism of hydroxyl chloride anchored in the 3D porous conductive matrix. <i>Diamond and Related Materials</i> , <b>2022</b> , 125, 109020	3.5	