Yu-Shi He

List of Publications by Year in Descending Order

77 papers	3,335 citations	33 h-index	56 g-index
83 ext. papers	3,897 ext. citations	7.7 avg, IF	5.35 L-index

#	Paper	IF	Citations
77	Revisiting the capacity-fading mechanism of P2-type sodium layered oxide cathode materials during high-voltage cycling. *Journal of Energy Chemistry*, **2022**, 69, 16-25	12	3
76	Experimental insight into the structure-property relationship and lithium storage mechanism of hydroxyl chloride anchored in the 3D porous conductive matrix. *Diamond and Related Materials*, **2022**, 125, 109020	3.5	
75	Constructing a catalytic reservoir using cobalt nanoparticles-MoS2@nitrogen doped carbon nanotubes on the separator to immobilize polysulfides and accelerate their conversion for lithium-sulfur batteries. *Chemical Engineering Journal*, **2022**, 136943	14.7	1
74	Surface Tuning to Promote the Electrocatalysis for Oxygen Evolution Reaction: From Metal-Free to Cobalt-Based Carbon Electrocatalysts. *ACS Applied Materials & Interfaces*, **2021**, 13, 503-513	9.5	5
73	Structural Tuning of a Flexible and Porous Polypyrrole Film by a Template-Assisted Method for Enhanced Capacitance for Supercapacitor Applications. *ACS Applied Materials & Interfaces*, **2021**, 13, 17726-17735	9.5	11
72	Regulating adhesion of solid-electrolyte interphase to silicon via covalent bonding strategy towards high Coulombic-efficiency anodes. *Nano Energy*, **2021**, 84, 105935	17.1	4
71	Structural and chemical interplay between nano-active and encapsulation materials in a core□shell SnO2@MXene lithium ion anode system. *CrystEngComm*, **2021**, 23, 368-377	3.3	7
70	Rapid Hard-Tissue-Embedding Method for Embedding Graphene Nanomaterials: A Multilayered Graphene Hydrogel Membrane. *Macromolecular Materials and Engineering*, **2021**, 306, 2000535	3.9	
69	Dopants modulate crystal growth in molten salts enabled by surface energy tuning. *Journal of Materials Chemistry A*, **2021**, 9, 19675-19680	13	1
68	Biomimetic Glycopolypeptide Hydrogels with Tunable Adhesion and Microporous Structure for Fast Hemostasis and Highly Efficient Wound Healing. *Advanced Functional Materials*, **2021**, 31, 2105628	15.6	22
67	Constructing a "pea-pod"-like nanostructure to provide valid conductive matrix and volume change accommodation for silicon anode in lithium ion batteries. *Green Chemical Engineering*, **2021**, 2, 327-335	3	2
66	Achieving highly reversible and fast sodium storage of Na4VMn(PO4)3/C-rGO composite with low-fraction rGO via spray-drying technique. *Nano Energy*, **2021**, 89, 106462	17.1	14
65	Synergistic antibacterial effect of graphene-coated titanium loaded with levofloxacin. *Colloids and Surfaces B: Biointerfaces*, **2021**, 208, 112090	6	0
64	Spray-dried assembly of 3D N,P-Co-doped graphene microspheres embedded with core-shell CoP/MoP@C nanoparticles for enhanced lithium-ion storage. *Dalton Transactions*, **2021**, 50, 4555-4566	4.3	6
63	Improved Cycling Performance of P2-NaNiMnO Based on Sn Substitution Combined with Polypyrrole Coating. *ACS Applied Materials & Interfaces*, **2021**, 13, 3793-3804	9.5	9
62	Controlling Particle Size and Phase Purity of Single-Crystal LiNi0.5Mn1.5O4 in Molten-Salt-Assisted Synthesis. *Journal of Physical Chemistry C*, **2020**, 124, 27937-27945	3.8	5
61	Single-crystal nickel-rich layered-oxide battery cathode materials: synthesis, electrochemistry, and intra-granular fracture. *Energy Storage Materials*, **2020**, 27, 140-149	19.4	152

60	MXene Frameworks Promote the Growth and Stability of LiF-Rich Solid-Electrolyte Interphases on Silicon Nanoparticle Bundles. *ACS Applied Materials & Interfaces*, **2020**, 12, 18541-18550	9.5	18
59	Boosting potassium storage in nanosheet assembled MoSe2 hollow sphere through surface decoration of MoO2 nanoparticles. *Applied Surface Science*, **2020**, 505, 144573	6.7	15
58	A Porous and Interconnected Polypyrrole Film with High Conductivity and Ion Accessibility as Electrode for Flexible All-Solid-State Supercapacitors. *ChemElectroChem*, **2019**, 6, 5479-5485	4.3	4
57	Rational Design of the Robust Janus Shell on Silicon Anodes for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2019**, 11, 17375-17383	9.5	29
56	Cobalt phosphide embedded in a graphene nanosheet network as a high-performance anode for Li-ion batteries. *Dalton Transactions*, **2019**, 48, 7778-7785	4.3	14
55	Highly crystalline sodium manganese ferrocyanide microcubes for advanced sodium ion battery cathodes. *Journal of Materials Chemistry A*, **2019**, 7, 22248-22256	13	21
54	Coaxial Carbon Nanotube Supported TiO@MoO@Carbon Core-Shell Anode for Ultrafast and High-Capacity Sodium Ion Storage. *ACS Nano*, **2019**, 13, 671-680	16.7	29
53	Insight into Ca-Substitution Effects on O3-Type NaNi Fe Mn O Cathode Materials for Sodium-Ion Batteries Application. *Small*, **2018**, 14, e1704523	11	56
52	Boosting the Sodiation Capability and Stability of FeP by In Situ Anchoring on the Graphene Conductive Framework. *ChemNanoMat*, **2018**, 4, 309-315	3.5	16
51	Electrochemical Performance of NaFeFe(CN)6Prepared by Solid Reaction for Sodium Ion Batteries. *Journal of the Electrochemical Society*, **2018**, 165, A3910-A3917	3.9	16
50	Urchin-like MoP Nanocrystals Embedded in N-Doped Carbon as High Rate Lithium Ion Battery Anode. *ACS Applied Energy Materials*, **2018**, 1, 7140-7145	6.1	10
49	Nitrogen and Phosphorus Codoped Porous Carbon Framework as Anode Material for High Rate Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 36969-36975	9.5	35
48	Carbon-coated FeP nanoparticles anchored on carbon nanotube networks as an anode for long-life sodium-ion storage. *Chemical Communications*, **2018**, 54, 11348-11351	5.8	29
47	Low-Cost Nickel Phosphide as an Efficient Bifunctional Cathode Catalyst for Li-O2 Batteries. *Journal of the Electrochemical Society*, **2018**, 165, A2904-A2908	3.9	9
46	Incorporation of rubidium cations into Li 1.2 Mn 0.54 Co 0.13 Ni 0.13 O 2 layered oxide cathodes for improved cycling stability. *Electrochimica Acta*, **2017**, 231, 363-370	6.7	33
45	An Active Amorphous Carbon Material with Fe2C Nanocrystals Encapsulated as a High Performance Electrode for Lithium-Ion Batteries. *ChemistrySelect*, **2017**, 2, 1854-1859	1.8	6
44	Effectively incorporating iron, nitrogen, and sulfur functionalities on carbon surface for a superior electrocatalyst toward oxygen reduction reaction. *Electrochemistry Communications*, **2017**, 81, 34-37	5.1	19
43	Improved cycling performance of prussian blue cathode for sodium ion batteries by controlling operation voltage range. *Electrochimica Acta*, **2017**, 225, 235-242	6.7	38

42	A nitrogen-containing carbon film derived from vapor phase polymerized polypyrrole as a fast charging/discharging capability anode for lithium-ion batteries. *Chemical Communications*, **2016**, 52, 112-5	5.8	18
41	Carbon coated SnO2 nanoparticles anchored on CNT as a superior anode material for lithium-ion batteries. *Nanoscale*, **2016**, 8, 4121-6	7.7	113
40	Large-Scale Synthesis of NaNi1/3Fe1/3Mn1/3O2as High Performance Cathode Materials for Sodium Ion Batteries. *Journal of the Electrochemical Society*, **2016**, 163, A565-A570	3.9	72
39	Integrating in situ solvothermal approach synthesized nanostructured tin anchored on graphene sheets into film anodes for sodium-ion batteries. *Electrochimica Acta*, **2016**, 196, 572-578	6.7	25
38	A dual-spatially-confined reservoir by packing micropores within dense graphene for long-life lithium/sulfur batteries. *Nanoscale*, **2016**, 8, 2395-402	7.7	40
37	Multilayered Graphene Hydrogel Membranes for Guided Bone Regeneration. *Advanced Materials*, **2016**, 28, 4025-31	24	104
36	An experimental insight into the advantages of in situ solvothermal route to construct 3D graphene-based anode materials for lithium-ion batteries. *Nano Energy*, **2015**, 16, 235-246	17.1	56
35	Prussian blue without coordinated water as a superior cathode for sodium-ion batteries. *Chemical Communications*, **2015**, 51, 8181-4	5.8	122
34	Induction of Osteogenic Differentiation of Human Adipose-Derived Stem Cells by a Novel Self-Supporting Graphene Hydrogel Film and the Possible Underlying Mechanism. *ACS Applied Materials & Interfaces*, **2015**, 7, 20245-54	9.5	22
33	Sulfur-based composite cathode materials for high-energy rechargeable lithium batteries. *Advanced Materials*, **2015**, 27, 569-75	24	247
32	N-doped pierced graphene microparticles as a highly active electrocatalyst for Li-air batteries. *2D Materials*, **2015**, 2, 024002	5.9	11
31	Influence of lithium precursors and calcination atmospheres on graphene sheets-modified nano-Li4Ti5O12 anode material. *Journal of Power Sources*, **2015**, 285, 51-62	8.9	19
30	A novel graphene sheet-wrapped Co2(OH)3Cl composite as a long-life anode material for lithium ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 16925-16930	13	33
29	A flexible and binder-free reduced graphene oxide/Na2/3[Ni1/3Mn2/3]O2 composite electrode for high-performance sodium ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 6723-6726	13	46
28	Structure optimization of Prussian blue analogue cathode materials for advanced sodium ion batteries. *Chemical Communications*, **2014**, 50, 13377-80	5.8	161
27	One-Pot Spray-Dried Graphene Sheets-Encapsulated Nano-Li4Ti5O12Microspheres for a Hybrid BatCap System. *Industrial & Engineering Chemistry Research*, **2014**, 53, 10849-10857	3.9	51
26	A solvothermal strategy: one-step in situ synthesis of self-assembled 3D graphene-based composites with enhanced lithium storage capacity. *Journal of Materials Chemistry A*, **2014**, 2, 9200-9207	13	53
25	Enhanced Electrochemical Performance of Nanofibrous CoO/CNF Cathode Catalyst for Li-O2 Batteries. *Electrochimica Acta*, **2014**, 137, 183-189	6.7	18

24	Hierarchical sulfur-based cathode materials with long cycle life for rechargeable lithium batteries. *ChemSusChem*, **2014**, 7, 563-9	8.3	71
23	Electrochemical properties of P2-Na2/3[Ni1/3Mn2/3]O2 cathode material for sodium ion batteries when cycled in different voltage ranges. *Electrochimica Acta*, **2013**, 113, 200-204	6.7	144
22	Nanofibrous MnNi/CNF Composite Catalyst for Rechargeable Li/O2Cell. *Journal of the Electrochemical Society*, **2013**, 160, A1112-A1117	3.9	17
21	A Na4Fe(CN)6/NaCl solid solution cathode material with an enhanced electrochemical performance for sodium ion batteries. *Journal of Materials Chemistry A*, **2013**, 1, 13417	13	25
20	Facile Spray Drying Route for the Three-Dimensional Graphene-Encapsulated Fe2O3 Nanoparticles for Lithium Ion Battery Anodes. *Industrial & Engineering Chemistry Research*, **2013**, 52, 1197-1204	3.9	105
19	Self-Supporting Graphene Hydrogel Film as an Experimental Platform to Evaluate the Potential of Graphene for Bone Regeneration. *Advanced Functional Materials*, **2013**, 23, 3494-3502	15.6	100
18	A novel Co(phen)2/C catalyst for the oxygen electrode in rechargeable lithium air batteries. *Science Bulletin*, **2012**, 57, 1959-1963		13
17	Synthesis and electrochemical characterization of LiFePO4/C-polypyrrole composite prepared by a simple chemical vapor deposition method. *Journal of Solid State Electrochemistry*, **2012**, 16, 1383-1388	2.6	16
16	Series resistance method to obtain equivalent circuit of piezoelectric resonator. *Electronics Letters*, **2012**, 48, 1054-1056	1.1	1
15	Rechargeable Li/O2Cell Based on a LiTFSI-DMMP/PFSA-Li Composite Electrolyte. *Journal of the Electrochemical Society*, **2012**, 159, A1874-A1879	3.9	11
14	A novel bath lily-like graphene sheet-wrapped nano-Si composite as a high performance anode material for Li-ion batteries. *RSC Advances*, **2011**, 1, 958	3.7	78
13	High voltage supercapacitors using hydrated graphene film in a neutral aqueous electrolyte. *Electrochemistry Communications*, **2011**, 13, 1166-1169	5.1	61
12	Enhanced low-temperature performance of slight Mn-substituted LiFePO4/C cathode for lithium ion batteries. *Science Bulletin*, **2011**, 56, 1262-1266		9
11	Electrochemical characteristics and intercalation mechanism of ZnS/C composite as anode active material for lithium-ion batteries. *Electrochimica Acta*, **2011**, 56, 1213-1218	6.7	84
10	Direct scattered growth of MWNT on Si for high performance anode material in Li-ion batteries. *Chemical Communications*, **2010**, 46, 9149-51	5.8	42
9	A Co(OH)2□raphene nanosheets composite as a high performance anode material for rechargeable lithium batteries. *Electrochemistry Communications*, **2010**, 12, 570-573	5.1	129
8	Superior high-rate cycling performance of LiFePO4/C-PPy composite at 55□C. *Electrochemistry Communications*, **2009**, 11, 1277-1280	5.1	55
7	Preparation and performance of LiNi0.8Co0.2O2 cathode material based on Co-substituted □Ni(OH)2 precursor. *Science Bulletin*, **2008**, 53, 1324-1328	10.6	1

6	Low-temperature performance of LiFePO4/C cathode in a quaternary carbonate-based electrolyte. *Electrochemistry Communications*, **2008**, 10, 691-694	5.1	161
5	Synthesis and characterization of submicron-sized LiNi1/3Co1/3Mn1/3O2 by a simple self-propagating solid-state metathesis method. *Journal of Power Sources*, **2007**, 163, 1053-1058	8.9	71
4	Effects of fluorine-substitution on the electrochemical behavior of LiFePO4/C cathode materials. *Journal of Power Sources*, **2007**, 174, 720-725	8.9	79
3	Synthesis of LiNi1/3Co1/3Mn1/3O2−Fz cathode material from oxalate precursors for lithium ion battery. *Journal of Fluorine Chemistry*, **2007**, 128, 139-143	2.1	67
2	Electrochemical Behavior of LiFePO[sub 4] Cathode Material for Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **2005**, 152, A1969	3.9	75
1	A Novel Synthesis Route for LiFePO[sub 4]/C Cathode Materials for Lithium-Ion Batteries. *Electrochemical and Solid-State Letters*, **2004**, 7, A522		65