Hao-Sen Fan

List of Publications by Year
in descending order

47 papers	2,946 citations	236612 25 h-index	233125 45 g-index
48 all docs	48 docs citations	48 times ranked	3189 citing authors

#	Article	IF	Citations
1	NiS2@CoS2 nanocrystals encapsulated in N-doped carbon nanocubes for high performance lithium/sodium ion batteries. Energy Storage Materials, 2018, 11, 67-74.	9.5	346
2	Feâ€Doped Ni₃C Nanodots in Nâ€Doped Carbon Nanosheets for Efficient Hydrogenâ€Evolution and Oxygenâ€Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 12566-12570.	7.2	324
3	Nâ€Doped Carbonâ€Coated Ni_{1.8}Co_{1.2}Se₄ Nanoaggregates Encapsulated in Nâ€Doped Carbon Nanoboxes as Advanced Anode with Outstanding Highâ€Rate and Lowâ€Temperature Performance for Sodiumâ€Ion Half/Full Batteries. Advanced Functional Materials, 2018, 28, 1805444.	7.8	228
4	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe2@C core-shell nanorods for advanced sodium ion batteries. Energy Storage Materials, 2018, 10, 48-55.	9.5	221
5	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe₂) Nanoplates for Superior Li/Na Ion Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 25261-25267.	4.0	185
6	Co₉S₈/MoS₂ Yolkâ€“Shell Spheres for Advanced Li/Na Storage. Small, 2017, 13, 1603490.	5.2	162
7	General Approach for MOF-Derived Porous Spinel AFe₂O₄ Hollow Structures and Their Superior Lithium Storage Properties. ACS Applied Materials & Interfaces, 2015, 7, 26751-26757.	4.0	133
8	Ni3Se4@CoSe2 hetero-nanocrystals encapsulated into CNT-porous carbon interpenetrating frameworks for high-performance sodium ion battery. Journal of Colloid and Interface Science, 2022, 611, 718-725.	5.0	117
9	Design strategy for MXene and metal chalcogenides/oxides hybrids for supercapacitors, secondary batteries and electro/photocatalysis. Coordination Chemistry Reviews, 2022, 464, 214544.	9.5	99
10	Sn Nanoparticles Encapsulated in 3D Nanoporous Carbon Derived from a Metalâ€“Organic Framework for Anode Material in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17172-17177.	4.0	89
11	Ni_{1.5}CoSe₅ nanocubes embedded in 3D dual N-doped carbon network as advanced anode material in sodium-ion full cells with superior low-temperature and high-power properties. Journal of Materials Chemistry A, 2018, 6, 22966-22975.	5.2	83
12	Rational design of heterostructured bimetallic sulfides (CoS2/NC@VS4) with VS4 nanodots decorated on CoS2 dodecahedron for high-performance sodium and potassium ion batteries. Journal of Colloid and Interface Science, 2022, 625, 41-49.	5.0	78
13	Intercalation Mechanism of the Ammonium Vanadate (NH₄V₄O₁₀) 3D Decussate Superstructure as the Cathode for High-Performance Aqueous Zinc-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2021, 9, 11769-11777.	3.2	67
14	Nano-SnO2 Decorated Carbon Cloth as Flexible, Self-supporting and Additive-Free Anode for Sodium/Lithium-Ion Batteries. Acta Metallurgica Sinica (English Letters), 2021, 34, 390-400.	1.5	61
15	Ion-exchange strategy of CoS2/Sb2S3 hetero-structured nanocrystals encapsulated into 3D interpenetrating dual-carbon framework for high-performance Na+/K+ batteries. Chemical Engineering Journal, 2021, 425, 130657.	6.6	61
16	Binary zincâ€“cobalt metalâ€“organic framework derived mesoporous ZnCo₂O₄@NC polyhedron as a high-performance lithium-ion battery anode. Dalton Transactions, 2020, 49, 14237-14242.	1.6	58
17	Super Na⁺ Half/Full Batteries and Ultrafast Na⁺ Diffusion Kinetics of <scp>Cobaltâ€Nickel</scp> Selenide from Assembling Co_{0.}<scp>₅Ni₀</scp>_.<scp>₅Se₂</scp>@<scp>NC</scp> Nanosheets into <scp>Crossâ€Stacked</scp> Architecture. Chinese Journal of Chemistry, 2021, 39, 2599-2606.	3.0	54
18	From zinc-cyanide hybrid coordination polymers to hierarchical yolk-shell structures for high-performance and ultra-stable lithium-ion batteries. Nano Energy, 2017, 33, 168-176.	8.2	51

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19	Feâ€Doped Ni₃C Nanodots in Nâ€Doped Carbon Nanosheets for Efficient Hydrogenâ€Evolution and Oxygenâ€Evolution Electrocatalysis. Angewandte Chemie, 2017, 129, 12740-12744.	1.6	48
20	Biomass-derived, 3D interconnected N-doped carbon foam as a host matrix for Li/Na/K-selenium batteries. Electrochimica Acta, 2020, 356, 136832.	2.6	43
21	Epitaxial growth induced multilayer yolk-shell structured CoSe2 with promoting transport kinetics of sodium ion half/full batteries. Journal of Power Sources, 2022, 517, 230729.	4.0	36
22	2D-2D MXene/ReS2 hybrid from Ti3C2Tx MXene conductive layers supporting ultrathin ReS2 nanosheets for superior sodium storage. Chemical Engineering Journal, 2022, 431, 133796.	6.6	36
23	High-pseudocapacitance of porous and square NiO@NC nanosheets for high-performance lithium-ion batteries. Rare Metals, 2021, 40, 1451-1458.	3.6	32
24	Co-intercalation strategy of constructing partial cation substitution of ammonium vanadate {(NH₄)₂V₆O₁₆} for stable zinc ion storage. Dalton Transactions, 2022, 51, 7607-7612.	1.6	32
25	Recent progress of nanostructured metal chalcogenides and their carbon-based hybrids for advanced potassium battery anodes. Materials Chemistry Frontiers, 2021, 5, 4401-4423.	3.2	29
26	In situ fragmented and confined CoP nanocrystals into sandwich-structure MXene@CoP@NPC heterostructure for superior sodium-ion storage. Materials Today Chemistry, 2022, 26, 101002.	1.7	29
27	Two-dimensional carbon-coated CoS2 nanoplatelets issued from a novel Co(OH)(OCH3) precursor as anode materials for lithium ion batteries. Applied Surface Science, 2020, 516, 146133.	3.1	26
28	Ultrafast Li+ diffusion kinetics enhanced by cross-stacked nanosheets loaded with Co3O4@NiO nanoparticles: Constructing superstructure to enhance Li-ion half/full batteries. Journal of Colloid and Interface Science, 2021, 585, 51-60.	5.0	26
29	Pseudocapacitance-dominated high-performance and stable lithium-ion batteries from MOF-derived spinel ZnCo₂O₄/ZnO/C heterostructure anode. Dalton Transactions, 2020, 49, 13311-13316.	1.6	22
30	Coupling of ReS₂ nanosheet arrays with hollow NiCoS₄ nanocubes enables ultrafast Na⁺ diffusion kinetics and super Na⁺ storage of a NiCoS₄@ReS₂ heterostructure. Materials Chemistry Frontiers, 2021, 5, 7540-7547.	3.2	22
31	N-doped carbon nanocapsules as nanoreactors to boost lithium storage performance of Co-based oxide nanocrystallines. Ceramics International, 2020, 46, 27608-27615.	2.3	19
32	Silver vanadate (Ag0.33V2O5) nanorods from Ag intercalated vanadium pentoxide for superior cathode of aqueous zinc-ion batteries. Rare Metals, 2022, 41, 2844-2852.	3.6	19
33	Electrochemical and Pseudocapacitive Analysis of Rod-Like MoO2@MoSe2@NC Heterostructures for High-Performance Lithium Ion Batteries. Acta Metallurgica Sinica (English Letters), 2021, 34, 425-434.	1.5	15
34	Improving Na+ transport kinetics and Na+ storage of hierarchical rhenium-nickel sulfide (ReS2@NiS2) hollow architecture by assembling layered 2D-3D heterostructures. Chinese Chemical Letters, 2021, 32, 3607-3612.	4.8	14
35	Synergistic effect between 1Tâ€™-ReS2 nanosheet arrays and FeS2 nano-spindle in 1Tâ€™-ReS2@FeS2@NC heterostructured anode for Na+ storage. Electrochimica Acta, 2021, 392, 139071.	2.6	12
36	In situ etching strategy to construct yolkâ€“shell CoSe₂@NiCoSe₄-NC heterostructures for high-performance sodium ion battery. Materials Chemistry Frontiers, 2022, 6, 194-202.	3.2	12

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37	Nanocavity-enriched Co₃O₄@ZnCo₂O₄@NC porous nanowires derived from 1D metal coordination polymers for fast Li⁺diffusion kinetics and super Li⁺storage. Dalton Transactions, 2021, 50, 7277-7283.	1.6	11
38	Controllable synthesis of various V2O5micro-/nanostructures as high performance cathodes for lithium ion batteries. CrystEngComm, 2017, 19, 716-721.	1.3	8
39	Synthesis of Hollow Three-Dimensional Channels LiNi0.5Mn1.5O4 Microsphere by PEO Soft Template Assisted with Solvothermal Method. Acta Metallurgica Sinica (English Letters), 2021, 34, 1153-1162.	1.5	8
40	Hydrogenated vanadium oxides as an advanced anode material in lithium ion batteries. Nano Research, 2017, 10, 4266-4273.	5.8	7
41	In-situ Synthesis of Coral-Like Molybdenum Phosphide (MoP) Microspheres for Lithium-Ion Battery. Acta Metallurgica Sinica (English Letters), 2021, 34, 401-409.	1.5	7
42	Numerical simulation of a cyclone separator to recycle the active components of waste lithium batteries. Engineering Applications of Computational Fluid Mechanics, 2022, 16, 937-951.	1.5	6
43	Synthesis of Metal Oxides@C (Metalâ€‰=â€‰Ni, Fe) Based Prussian Blue Analogs as a High-performance Anode Material for Lithium-ion Battery. Acta Metallurgica Sinica (English Letters), 2021, 34, 435-443.	1.5	4
44	Enhanced thermal conductivity and antistatic property of energy-saving tyres. Journal of Polymer Research, 2021, 28, 1.	1.2	4
45	Ternary Metalâ€“Organic Framework Derived 2D Fe2O3/Co3O4/NiO/NC Heterostructured Nanosheets for Super Lithium Storage. Acta Metallurgica Sinica (English Letters), 2022, 35, 1376-1382.	1.5	2
46	Investigation of the mechanism/effect of surface etching and post-process of Kevlar fiber by metal ions. Polymer Bulletin, 0, , 1.	1.7	0
47	Preparation of Layered Aramid Nanomembranes by Vacuum Assisted Filtration Using Water and Ethanol as Proton Donors. Fibers and Polymers, 0, , .	1.1	0