

# Hao-Sen Fan

## List of Publications by Year in descending order

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47  
papers

2,946  
citations

218592

26  
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233338

45  
g-index

48  
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48  
docs citations

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times ranked

3189  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial growth induced multilayer yolk-shell structured CoSe <sub>2</sub> with promoting transport kinetics of sodium ion half/full batteries. <i>Journal of Power Sources</i> , 2022, 517, 230729.	4.0	36
2	<i>In situ</i> etching strategy to construct yolk-shell CoSe <sub>2</sub> @NiCoSe <sub>4</sub> -NC heterostructures for high-performance sodium ion battery. <i>Materials Chemistry Frontiers</i> , 2022, 6, 194-202.	3.2	12
3	2D-2D MXene/ReS <sub>2</sub> hybrid from Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene conductive layers supporting ultrathin ReS <sub>2</sub> nanosheets for superior sodium storage. <i>Chemical Engineering Journal</i> , 2022, 431, 133796.	6.6	36
4	Ni <sub>3</sub> Se <sub>4</sub> @CoSe <sub>2</sub> hetero-nanocrystals encapsulated into CNT-porous carbon interpenetrating frameworks for high-performance sodium ion battery. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 718-725.	5.0	117
5	Ternary Metal-Organic Framework Derived 2D Fe <sub>2</sub> O <sub>3</sub> /Co <sub>3</sub> O <sub>4</sub> /NiO/NC Heterostructured Nanosheets for Super Lithium Storage. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 1376-1382.	1.5	2
6	Numerical simulation of a cyclone separator to recycle the active components of waste lithium batteries. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2022, 16, 937-951.	1.5	6
7	Design strategy for MXene and metal chalcogenides/oxides hybrids for supercapacitors, secondary batteries and electro/photocatalysis. <i>Coordination Chemistry Reviews</i> , 2022, 464, 214544.	9.5	99
8	Co-intercalation strategy of constructing partial cation substitution of ammonium vanadate {(NH <sub>4</sub> ) <sub>2</sub> V <sub>6</sub> O <sub>16</sub> } for stable zinc ion storage. <i>Dalton Transactions</i> , 2022, 51, 7607-7612.	1.6	32
9	Rational design of heterostructured bimetallic sulfides (CoS <sub>2</sub> /NC@VS <sub>4</sub> ) with VS <sub>4</sub> nanodots decorated on CoS <sub>2</sub> dodecahedron for high-performance sodium and potassium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 41-49.	5.0	78
10	Silver vanadate (Ag <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> ) nanorods from Ag intercalated vanadium pentoxide for superior cathode of aqueous zinc-ion batteries. <i>Rare Metals</i> , 2022, 41, 2844-2852.	3.6	19
11	<i>In situ</i> fragmented and confined CoP nanocrystals into sandwich-structure MXene@CoP@NPC heterostructure for superior sodium-ion storage. <i>Materials Today Chemistry</i> , 2022, 26, 101002.	1.7	29
12	Nano-SnO <sub>2</sub> Decorated Carbon Cloth as Flexible, Self-supporting and Additive-Free Anode for Sodium/Lithium-Ion Batteries. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 390-400.	1.5	61
13	<i>In-situ</i> Synthesis of Coral-Like Molybdenum Phosphide (MoP) Microspheres for Lithium-Ion Battery. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 401-409.	1.5	7
14	Ultrafast Li <sup>+</sup> diffusion kinetics enhanced by cross-stacked nanosheets loaded with Co <sub>3</sub> O <sub>4</sub> @NiO nanoparticles: Constructing superstructure to enhance Li-ion half/full batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 585, 51-60.	5.0	26
15	Coupling of ReS <sub>2</sub> nanosheet arrays with hollow NiCoS <sub>4</sub> nanocubes enables ultrafast Na <sup>+</sup> diffusion kinetics and super Na <sup>+</sup> storage of a NiCoS <sub>4</sub> @ReS <sub>2</sub> heterostructure. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7540-7547.	3.2	22
16	Nanocavity-enriched Co <sub>3</sub> O <sub>4</sub> @ZnCo <sub>2</sub> O <sub>4</sub> @NC porous nanowires derived from 1D metal coordination polymers for fast Li <sup>+</sup> diffusion kinetics and super Li <sup>+</sup> storage. <i>Dalton Transactions</i> , 2021, 50, 7277-7283.	1.6	11
17	High-pseudocapacitance of porous and square NiO@NC nanosheets for high-performance lithium-ion batteries. <i>Rare Metals</i> , 2021, 40, 1451-1458.	3.6	32
18	Synthesis of Metal Oxides@C (Metal = Ni, Fe) Based Prussian Blue Analogs as a High-performance Anode Material for Lithium-ion Battery. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 435-443.	1.5	4

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19	Synthesis of Hollow Three-Dimensional Channels LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Microsphere by PEO Soft Template Assisted with Solvothermal Method. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1153-1162.	1.5	8
20	Electrochemical and Pseudocapacitive Analysis of Rod-Like MoO <sub>2</sub> @MoSe <sub>2</sub> @NC Heterostructures for High-Performance Lithium Ion Batteries. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 425-434.	1.5	15
21	Improving Na <sup>+</sup> transport kinetics and Na <sup>+</sup> storage of hierarchical rhenium-nickel sulfide (ReS <sub>2</sub> @NiS <sub>2</sub> ) hollow architecture by assembling layered 2D-3D heterostructures. <i>Chinese Chemical Letters</i> , 2021, 32, 3607-3612.	4.8	14
22	Super Na <sup>+</sup> Half/Full Batteries and Ultrafast Na <sup>+</sup> Diffusion Kinetics of Cobalt-Nickel Selenide from Assembling Co <sub>5</sub> Ni <sub>0</sub> Se <sub>2</sub> @NC Nanosheets into Cross-Stacked Architecture. <i>Chinese Journal of Chemistry</i> , 2021, 39, 2599-2606.	3.0	1
23	Intercalation Mechanism of the Ammonium Vanadate (NH <sub>4</sub> V <sub>4</sub> O <sub>10</sub> ) 3D Decussate Superstructure as the Cathode for High-Performance Aqueous Zinc-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11769-11777.	3.2	67
24	Synergistic effect between 1Tâ€™-ReS <sub>2</sub> nanosheet arrays and FeS <sub>2</sub> nano-spindle in 1Tâ€™-ReS <sub>2</sub> @FeS <sub>2</sub> @NC heterostructured anode for Na <sup>+</sup> storage. <i>Electrochimica Acta</i> , 2021, 392, 139071.	2.6	12
25	Ion-exchange strategy of CoS <sub>2</sub> /Sb <sub>2</sub> S <sub>3</sub> hetero-structured nanocrystals encapsulated into 3D interpenetrating dual-carbon framework for high-performance Na <sup>+</sup> /K <sup>+</sup> batteries. <i>Chemical Engineering Journal</i> , 2021, 425, 130657.	6.6	61
26	Recent progress of nanostructured metal chalcogenides and their carbon-based hybrids for advanced potassium battery anodes. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4401-4423.	3.2	29
27	Enhanced thermal conductivity and antistatic property of energy-saving tyres. <i>Journal of Polymer Research</i> , 2021, 28, 1.	1.2	4
28	Binary zinc-cobalt metal-organic framework derived mesoporous ZnCo <sub>2</sub> O <sub>4</sub> @NC polyhedron as a high-performance lithium-ion battery anode. <i>Dalton Transactions</i> , 2020, 49, 14237-14242.	1.6	58
29	N-doped carbon nanocapsules as nanoreactors to boost lithium storage performance of Co-based oxide nanocrystallines. <i>Ceramics International</i> , 2020, 46, 27608-27615.	2.3	19
30	Biomass-derived, 3D interconnected N-doped carbon foam as a host matrix for Li/Na/K-selenium batteries. <i>Electrochimica Acta</i> , 2020, 356, 136832.	2.6	43
31	Pseudocapacitance-dominated high-performance and stable lithium-ion batteries from MOF-derived spinel ZnCo <sub>2</sub> O <sub>4</sub> /ZnO/C heterostructure anode. <i>Dalton Transactions</i> , 2020, 49, 13311-13316.	1.6	22
32	Two-dimensional carbon-coated CoS <sub>2</sub> nanoplatelets issued from a novel Co(OH)(OCH <sub>3</sub> ) precursor as anode materials for lithium ion batteries. <i>Applied Surface Science</i> , 2020, 516, 146133.	3.1	26
33	NiS <sub>2</sub> @CoS <sub>2</sub> nanocrystals encapsulated in N-doped carbon nanocubes for high performance lithium/sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 11, 67-74.	9.5	346
34	1D to 3D hierarchical iron selenide hollow nanocubes assembled from FeSe <sub>2</sub> @C core-shell nanorods for advanced sodium ion batteries. <i>Energy Storage Materials</i> , 2018, 10, 48-55.	9.5	221
35	Ni <sub>1.5</sub> CoSe <sub>5</sub> 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. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22966-22975.	5.2	83
36	Nâ€™Doped Carbon-Coated Ni <sub>1.8</sub> Co <sub>1.2</sub> Se <sub>4</sub> Nanoaggregates Encapsulated in Nâ€™Doped Carbon Nanoboxes as Advanced Anode with Outstanding High-Rate and Low-Temperature Performance for Sodium-Ion Half/Full Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1805444.	7.8	228

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37	Co <sub>9</sub> S <sub>8</sub> /MoS <sub>2</sub> Yolk-Shell Spheres for Advanced Li/Na Storage. Small, 2017, 13, 1603490.	5.2	162
38	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
39	Sn Nanoparticles Encapsulated in 3D Nanoporous Carbon Derived from a Metal-Organic Framework for Anode Material in Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17172-17177.	4.0	89
40	Controllable synthesis of various V <sub>2</sub> O <sub>5</sub> micro-/nanostructures as high performance cathodes for lithium ion batteries. CrystEngComm, 2017, 19, 716-721.	1.3	8
41	Hydrogenated vanadium oxides as an advanced anode material in lithium ion batteries. Nano Research, 2017, 10, 4266-4273.	5.8	7
42	Fe-Doped Ni <sub>3</sub> C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen Evolution and Oxygen Evolution Electrocatalysis. Angewandte Chemie, 2017, 129, 12740-12744.	1.6	48
43	Fe-Doped Ni <sub>3</sub> C Nanodots in N-Doped Carbon Nanosheets for Efficient Hydrogen Evolution and Oxygen Evolution Electrocatalysis. Angewandte Chemie - International Edition, 2017, 56, 12566-12570.	7.2	324
44	Controllable Preparation of Square Nickel Chalcogenide (NiS and NiSe <sub>2</sub> ) Nanoplates for Superior Li/Na Ion Storage Properties. ACS Applied Materials & Interfaces, 2016, 8, 25261-25267.	4.0	185
45	General Approach for MOF-Derived Porous Spinel AFe <sub>2</sub> O <sub>4</sub> Hollow Structures and Their Superior Lithium Storage Properties. ACS Applied Materials & Interfaces, 2015, 7, 26751-26757.	4.0	133
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