

# Chaoqun Shang

## List of Publications by Citations

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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.

83  
papers

2,366  
citations

24  
h-index

47  
g-index

85  
ext. papers

2,786  
ext. citations

7.7  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
83	One dimensional MnO <sub>2</sub> /titanium nitride nanotube coaxial arrays for high performance electrochemical capacitive energy storage. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3502	35.4	205
82	Coaxial Ni(x)Co(2x)(OH)(6x)/TiN nanotube arrays as supercapacitor electrodes. <i>ACS Nano</i> , <b>2013</b> , 7, 5430-5436	66.7	174
81	Mesoporous coaxial titanium nitride-vanadium nitride fibers of core-shell structures for high-performance supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 3058-63	9.5	161
80	Holey tungsten oxynitride nanowires: novel anodes efficiently integrate microbial chemical energy conversion and electrochemical energy storage. <i>Advanced Materials</i> , <b>2015</b> , 27, 3085-91	24	156
79	Engineering Thin MoS <sub>2</sub> Nanosheets on TiN Nanorods: Advanced Electrochemical Capacitor Electrode and Hydrogen Evolution Electrocatalyst. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1862-1868	20.1	134
78	Molybdenum nitride based hybrid cathode for rechargeable lithium-O <sub>2</sub> batteries. <i>Chemical Communications</i> , <b>2011</b> , 47, 11291-3	5.8	103
77	Conjugated microporous polymers with excellent electrochemical performance for lithium and sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 1896-1901	13	102
76	Compatible interface design of CoO-based Li-O <sub>2</sub> battery cathodes with long-cycling stability. <i>Scientific Reports</i> , <b>2015</b> , 5, 8335	4.9	94
75	A renewable bamboo carbon/polyaniline composite for a high-performance supercapacitor electrode material. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 877-882	2.6	73
74	Freestanding Mo <sub>2</sub> C-decorating N-doped carbon nanofibers as 3D current collector for ultra-stable Li-S batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 18, 375-381	19.4	69
73	Hierarchical ball-in-ball structured nitrogen-doped carbon microspheres as high performance anode for sodium-ion batteries. <i>Energy Storage Materials</i> , <b>2017</b> , 7, 229-235	19.4	66
72	A Carbon- and Binder-Free Nanostructured Cathode for High-Performance Nonaqueous Li-O Battery. <i>Advanced Science</i> , <b>2015</b> , 2, 1500092	13.6	65
71	A Ni <sub>3</sub> S <sub>2</sub> -PEDOT monolithic electrode for sodium batteries. <i>Electrochemistry Communications</i> , <b>2015</b> , 50, 24-27	5.1	58
70	Insight into Enhanced Cycling Performance of Li-O <sub>2</sub> Batteries Based on Binary CoSe <sub>2</sub> /CoO Nanocomposite Electrodes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 615-21	6.4	50
69	Insights into the mechanism of the enhanced visible-light photocatalytic activity of black phosphorus/BiVO <sub>4</sub> heterostructure: a first-principles study. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19167-19175	13	49
68	Understanding and suppressing side reactions in Li <sup>air</sup> batteries. <i>Materials Chemistry Frontiers</i> , <b>2017</b> , 1, 2495-2510	7.8	46
67	Supramolecular hydrogel directed self-assembly of C- and N-doped hollow CuO as high-performance anode materials for Li-ion batteries. <i>Chemical Communications</i> , <b>2017</b> , 53, 2138-2141	5.8	34

66	The distinctive phase stability and defect physics in CsPbI <sub>2</sub> Br perovskite. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 20201-20207	13	34
65	Electrospun Nitrogen-Doped Carbon Nanofibers Encapsulating Cobalt Nanoparticles as Efficient Oxygen Reduction Reaction Catalysts. <i>ChemElectroChem</i> , <b>2016</b> , 3, 1437-1445	4.3	33
64	A composite gel polymer electrolyte with high voltage cyclability for Ni-rich cathode of lithium-ion battery. <i>Electrochemistry Communications</i> , <b>2015</b> , 61, 32-35	5.1	31
63	Conductive FeOOH as Multifunctional Interlayer for Superior Lithium-Sulfur Batteries. <i>Small</i> , <b>2020</b> , 16, e2002789	11	30
62	A biocompatible titanium nitride nanorods derived nanostructured electrode for biosensing and bioelectrochemical energy conversion. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4088-94	11.8	29
61	Direct Observation of Ordered Oxygen Defects on the Atomic Scale in Li <sub>2</sub> O <sub>2</sub> for Li-O <sub>2</sub> Batteries. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1400664	21.8	28
60	Synthesis and characterization of mesoporous BiVO <sub>4</sub> nanofibers with enhanced photocatalytic water oxidation performance. <i>Applied Surface Science</i> , <b>2019</b> , 481, 255-261	6.7	24
59	Encapsulated MnO in N-doping carbon nanofibers as efficient ORR electrocatalysts. <i>Science China Materials</i> , <b>2017</b> , 60, 937-946	7.1	22
58	NASICON-Structured NaSn <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> with Excellent High-Rate Properties as Anode Material for Lithium Ion Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6668-6674	9.6	22
57	Dissolving Vanadium into Titanium Nitride Lattice Framework for Rational Polysulfide Regulation in LiS Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003020	21.8	22
56	Fe <sub>3</sub> O <sub>4</sub> @CoO mesospheres with core-shell nanostructure as catalyst for Li-O <sub>2</sub> batteries. <i>Applied Surface Science</i> , <b>2018</b> , 457, 804-808	6.7	21
55	Constructing CoS Nanosheets Coating N-Doped Carbon Nanofibers as Freestanding Sulfur Host for High-Performance Lithium-Sulfur Batteries. <i>Advanced Science</i> , <b>2020</b> , 7, 2002037	13.6	21
54	Enhanced Photocatalytic H <sub>2</sub> Evolution over ZnInS Flower-Like Microspheres Doped with Black Phosphorus Quantum Dots. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	20
53	ZnS Nanotubes/Carbon Cloth as a Reversible and High-Capacity Anode Material for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2019</b> , 6, 461-466	4.3	20
52	Cu <sub>2</sub> GeS <sub>3</sub> derived ultrafine nanoparticles as high-performance anode for sodium ion battery. <i>Science China Materials</i> , <b>2018</b> , 61, 1177-1184	7.1	19
51	Nanostructured transition metal nitride composites as energy storage material. <i>Science Bulletin</i> , <b>2012</b> , 57, 4111-4118		19
50	SnS/SnSb@C Nanofibers with Enhanced Cycling Stability via Vulcanization as an Anode for Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2018</b> , 5, 1098-1104	4.3	18
49	Flower-like Cu <sub>2</sub> N <sub>2</sub> S <sub>2</sub> Nanostructure Materials with High Crystallinity for Sodium Storage. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	18

48	Synthesis and Investigation of CuGeO Nanowires as Anode Materials for Advanced Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 193	5	17
47	MnSe embedded in carbon nanofibers as advanced anode material for sodium ion batteries. <i>Nanotechnology</i> , <b>2020</b> , 31, 335402	3.4	15
46	Promoting Ge Alloying Reaction via Heterostructure Engineering for High Efficient and Ultra-Stable Sodium-Ion Storage. <i>Advanced Science</i> , <b>2020</b> , 7, 2002358	13.6	14
45	CuSe Nanoparticles Encapsulated by Nitrogen-Doped Carbon Nanofibers for Efficient Sodium Storage. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	13
44	Vanadium self-intercalated C/V1.11S2 nanosheets with abundant active sites for enhanced electro-catalytic hydrogen evolution. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 208-216	6.7	12
43	Integration of NaV6O15H2O nanowires and rGO as cathode materials for efficient sodium storage. <i>Applied Surface Science</i> , <b>2019</b> , 494, 458-464	6.7	12
42	Co and N co-modified carbon nanotubes as efficient electrocatalyst for oxygen reduction reaction. <i>Rare Metals</i> , <b>2021</b> , 40, 90-95	5.5	12
41	An ion-conductive separator for high safety Li metal batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 475, 228687	6.7	11
40	Lithium Pre-cycling Induced Fast Kinetics of Commercial Sb2S3 Anode for Advanced Sodium Storage. <i>Energy and Environmental Materials</i> , <b>2019</b> , 2, 209-215	13	10
39	Ultrafine N-doped carbon nanoparticles with controllable size to enhance electrocatalytic activity for oxygen reduction reaction. <i>RSC Advances</i> , <b>2016</b> , 6, 110758-110764	3.7	10
38	Highly conductive VC embedded in carbon matrix as effective trapper and catalyst for Li-S batteries. <i>Chemical Communications</i> , <b>2020</b> , 56, 14295-14298	5.8	10
37	Cu3Ge coated by nitrogen-doped carbon nanorods as advanced sodium-ion battery anodes. <i>Ionics</i> , <b>2020</b> , 26, 719-726	2.7	10
36	Fe7Se8 encapsulated in N-doped carbon nanofibers as a stable anode material for sodium ion batteries. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 231-239	5.1	10
35	Amorphous Ti(IV)-modified flower-like ZnIn2S4 microspheres with enhanced hydrogen evolution photocatalytic activity and simultaneous wastewater purification. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 2693-2699	7.1	9
34	Lotus Root-Like Nitrogen-Doped Carbon Nanofiber Structure Assembled with VN Catalysts as a Multifunctional Host for Superior Lithium-Sulfur Batteries. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	9
33	Synergistic electronic and morphological modulation on ternary Co1-xVxP nanoneedle arrays for hydrogen evolution reaction with large current density. <i>Science China Materials</i> , <b>2021</b> , 64, 880-891	7.1	9
32	Improving lithium storage capability of ternary Sn-based sulfides by enhancing inactive/active element ratio. <i>Solid State Ionics</i> , <b>2019</b> , 337, 47-55	3.3	8
31	Ultrafine NaTi(PO) Nanoparticles Encapsulated in N-CNFs as Ultra-Stable Electrode for Sodium Storage. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 270	5	8

30	Vanadium nitride-decorated lotus root-like NCNFs as 3D current collector for Li-S batteries. <i>Materials Letters</i> , <b>2019</b> , 236, 240-243	3.3	8
29	In Situ Synthesis of All-Solid-State Z-Scheme BiOBr/Ag/AgI Photocatalysts with Enhanced Photocatalytic Activity Under Visible Light Irradiation. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 368	5	8
28	Coaxial titanium vanadium nitride core-shell nanofibers with enhanced electrocatalytic activity for triiodide reduction in dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2018</b> , 271, 388-396	6.7	7
27	A Full Li-S Battery with Ultralow Excessive Li Enabled via Lithiophilic and Sulfidic W C Modulation. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 16057-16065	4.8	7
26	The Ternary Heterostructures of BiOBr/Ultrathin g-C <sub>3</sub> N <sub>4</sub> /Black Phosphorous Quantum Dot Composites for Photodegradation of Tetracycline. <i>Polymers</i> , <b>2018</b> , 10,	4.5	7
25	CoVO Nanoparticles Supported on Reduced Graphene Oxide for Efficient Lithium Storage. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
24	Reduced Graphene Oxide Boosted Ultrafine Cu <sub>2</sub> SnS <sub>3</sub> Nanoparticles for High-performance Sodium Storage. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2949-2955	4.3	5
23	A Novel Open-Framework Cu-Ge-Based Chalcogenide Anode Material for Sodium-Ion Battery. <i>Scanning</i> , <b>2017</b> , 2017, 3876525	1.6	5
22	Hierarchical porous structure construction for highly stable self-supporting lithium metal anode. <i>Nano Energy</i> , <b>2022</b> , 93, 106905	17.1	5
21	Unusual Mechanism Behind Enhanced Photocatalytic Activity and Surface Passivation of SiC(0001) via Forming Heterostructure with a MoS <sub>2</sub> Monolayer. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1362-1368	3.8	4
20	Boron-doped molybdenum carbide as a pH-independent electrocatalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 30659-30665	6.7	4
19	Hematite photoanode modified with inexpensive hole-storage layer for highly efficient solar water oxidation. <i>Nanotechnology</i> , <b>2020</b> , 31, 455405	3.4	3
18	Double Morphology of CoS Coated by N, S Co-doped Carbon as Efficient Anode Materials for Sodium-Ion Batteries. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 19	5	3
17	Stable Copper Tin Sulfide Nanoflower Modified Carbon Quantum Dots for Improved Supercapacitors. <i>Journal of Chemistry</i> , <b>2019</b> , 2019, 1-5	2.3	3
16	Novel Fe <sub>2</sub> O <sub>3</sub> /PZT Nanorods for Ferroelectric Polarization-Enhanced Photoelectrochemical Water Splitting. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 16927-16935	4.1	3
15	Modified Nanopillar Arrays for Highly Stable and Efficient Photoelectrochemical Water Splitting. <i>Global Challenges</i> , <b>2019</b> , 3, 1800027	4.3	3
14	Hollow Carbon Nanocubes as Oxygen Reduction Reaction Electrocatalyst. <i>ChemistrySelect</i> , <b>2020</b> , 5, 13300813304	10.1	3
13	The fabrication of a 3D current collector with bitter melon-like TiO <sub>2</sub> /NCNFs for highly stable lithium-sulfur batteries. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 527-531	5.1	2

12	Co <sub>2</sub> P/Sn <sub>4</sub> P <sub>3</sub> particle encapsulated in N, P codoped carbon nanocubes for efficient sodium storage. <i>Materials Today Chemistry</i> , <b>2021</b> , 19, 100389	6.2	2
11	TiVN composite hollow mesospheres for high-performance supercapacitors. <i>Materials Research Express</i> , <b>2019</b> , 6, 025801	1.7	2
10	Flexible Freestanding Carbon Nanofiber-Embedded TiO Nanoparticles as Anode Material for Sodium-Ion Batteries. <i>Scanning</i> , <b>2018</b> , 2018, 4725328	1.6	2
9	Enhanced Electrochemical Performance of LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> with SiO <sub>2</sub> Surface Coating Via Homogeneous Precipitation. <i>ChemElectroChem</i> , <b>2021</b> , 8, 4321	4.3	1
8	Fe-doped Co-N/C as effective electrocatalyst for oxygen reaction. <i>Materials Research Express</i> , <b>2020</b> , 7, 085002	1.7	1
7	Enhanced polysulfide redox kinetics by niobium oxynitrides via in-situ adsorptive and catalytic effect in wide temperature range. <i>Nano Research</i> , 1	10	1
6	N- and S-doped ordered mesoporous carbon tubes with efficient S confinement for high-performance LiS batteries. <i>Materials Today Chemistry</i> , <b>2022</b> , 24, 100907	6.2	1
5	Rational design of freestanding necklace-like ZnSe with double N-doped carbon layer protection for efficient sodium storage. <i>Materials Today Chemistry</i> , <b>2022</b> , 25, 100976	6.2	1
4	Freestanding carbon nanofibers encapsulating MOF-derived NiSe with in-situ porous carbon protective layer for sodium storage. <i>Applied Surface Science</i> , <b>2022</b> , 579, 152181	6.7	0
3	Enhanced Sodium Storage Performance of Co <sub>7</sub> Se <sub>8</sub> Enabled Through In Situ Formation of a Nanoporous Architecture. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4361-4368	4.3	0
2	Ternary Co-Ni sulfides deposited on Co(OH) <sub>2</sub> nanoflakes decorated carbon cloth as electrode for supercapacitor. <i>Inorganic Chemistry Communication</i> , <b>2022</b> , 140, 109443	3.1	0
1	Regulating Lithium Deposition Behaviors by Functional PVDF-HFP/NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Composite Separator. <i>Advanced Materials Interfaces</i> , 2101892	4.6	