

# Xuanpeng Wang

## List of Publications by Year in Descending Order

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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.

68

papers

5,495

citations

40

h-index

74

g-index

75

ext. papers

6,739

ext. citations

13.6

avg, IF

5.89

L-index

#	Paper	IF	Citations
68	Cheese-like porous SnP2O7 composite as a long-life and high-rate anode material for potassium-ion batteries. <i>Chemical Engineering Journal</i> , <b>2022</b> , 439, 135777	14.7	3
67	Eutectic Electrolytes in Advanced Metal-Ion Batteries. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 247-260	20.1	13
66	Suppressing the Jahn-Teller Effect in Mn-Based Layered Oxide Cathode toward Long-Life Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2108244	15.6	5
65	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. <i>Advanced Materials</i> , <b>2021</b> , e2105611	24	13
64	Ammonium Ion and Structural Water Co-Assisted Zn <sup>2+</sup> Intercalation/De-Intercalation in NH <sub>4</sub> V <sub>4</sub> O <sub>10</sub> ·28H <sub>2</sub> O. <i>Chinese Journal of Chemistry</i> , <b>2021</b> , 39, 1885-1890	4.9	2
63	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 38, 30-49	19.4	23
62	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3796-3839	35.4	53
61	A Stable CaV <sub>4</sub> O <sub>9</sub> Anode Promises Near-Zero Volume Change and High-Capacity Lithium Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003612	21.8	5
60	Three-dimensional graphene-supported nickel disulfide nanoparticles promise stable and fast potassium storage. <i>Nanoscale</i> , <b>2020</b> , 12, 8255-8261	7.7	21
59	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. <i>Nano Energy</i> , <b>2020</b> , 77, 105069	17.1	15
58	Ultrafast cation insertion-selected zinc hexacyanoferrate for 1.9 V K <sup>+</sup> /Zn hybrid aqueous batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6631-6637	13	32
57	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1904398	15.6	123
56	A "MOFs plus ZIFs" Strategy toward Ultrafine Co Nanodots Confined into Superficial N-Doped Carbon Nanowires for Efficient Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54545-54552	9.5	6
55	Insights into the Storage Mechanism of Layered VS <sub>2</sub> Cathode in Alkali Metal-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904118	21.8	30
54	Aqueous Zn//Zn(CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> //Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> batteries with simultaneous Zn <sup>2+</sup> /Na <sup>+</sup> intercalation/de-intercalation. <i>Nano Energy</i> , <b>2019</b> , 58, 492-498	17.1	103
53	Porous VO microspheres: a high-capacity cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , <b>2019</b> , 55, 8486-8489	5.8	72
52	Realizing Superior Prussian Blue Positive Electrode for Potassium Storage via Ultrathin Nanosheet Assembly. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 11564-11570	8.3	59

51	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 594-601	28.7	300
50	Identification of Phase Control of Carbon-Confined Nb <sub>2</sub> O <sub>5</sub> Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1802695	21.8	88
49	Yolk-shell-structured zinc-cobalt binary metal sulfide @ N-doped carbon for enhanced lithium-ion storage. <i>Nano Energy</i> , <b>2019</b> , 64, 103899	17.1	54
48	Realizing Three-Electron Redox Reactions in NASICON-Structured Na <sub>3</sub> MnTi(PO <sub>4</sub> ) <sub>3</sub> for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803436	21.8	89
47	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803260	21.8	143
46	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. <i>Nanoscale</i> , <b>2018</b> , 10, 6820-6826	7.7	89
45	3.0 V High Energy Density Symmetric Sodium-Ion Battery: NaV(PO <sub>3</sub> ) <sub>2</sub>   NaV(PO <sub>3</sub> ) <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10022-10028	9.5	56
44	Highly Durable NaVO <sub>2</sub> ·1.63H <sub>2</sub> O Nanowire Cathode for Aqueous Zinc-Ion Battery. <i>Nano Letters</i> , <b>2018</b> , 18, 1758-1763	11.5	403
43	Heterostructured BiS-BiO Nanosheets with a Built-In Electric Field for Improved Sodium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7201-7207	9.5	109
42	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO nanoparticles for stable sodium storage. <i>Chemical Communications</i> , <b>2018</b> , 54, 1469-1472	5.8	14
41	Facile template-free synthesis of uniform carbon-confined V <sub>2</sub> O <sub>3</sub> hollow spheres for stable and fast lithium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6220-6224	13	29
40	Amine-assisted synthesis of FeS@N-C porous nanowires for highly reversible lithium storage. <i>Nano Research</i> , <b>2018</b> , 11, 6206-6216	10	14
39	Realizing stable lithium and sodium storage with high areal capacity using novel nanosheet-assembled compact CaV <sub>4</sub> O <sub>9</sub> microflowers. <i>Nano Energy</i> , <b>2018</b> , 50, 606-614	17.1	37
38	Novel MOF shell-derived surface modification of Li-rich layered oxide cathode for enhanced lithium storage. <i>Science Bulletin</i> , <b>2018</b> , 63, 46-53	10.6	53
37	General oriented assembly of uniform carbon-confined metal oxide nanodots on graphene for stable and ultrafast lithium storage. <i>Materials Horizons</i> , <b>2018</b> , 5, 78-85	14.4	32
36	A Synergistic Na-Mn-O Composite Cathodes for High-Capacity Na-Ion Storage. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802180	21.8	15
35	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804458	15.6	97
34	Graphene oxide-wrapped dipotassium terephthalate hollow microrods for enhanced potassium storage. <i>Chemical Communications</i> , <b>2018</b> , 54, 11029-11032	5.8	25

33	Nonhierarchical Heterostructured Fe O /Mn O Porous Hollow Spheres for Enhanced Lithium Storage. <i>Small</i> , <b>2018</b> , 14, e1800659	11	67
32	Porous CaFeO as a promising lithium ion battery anode: a trade-off between high capacity and long-term stability. <i>Nanoscale</i> , <b>2018</b> , 10, 12963-12969	7.7	27
31	Interface-modulated fabrication of hierarchical yolk-shell Co <sub>3</sub> O <sub>4</sub> /C dodecahedrons as stable anodes for lithium and sodium storage. <i>Nano Research</i> , <b>2017</b> , 10, 2364-2376	10	91
30	Operando X-ray Diffraction Characterization for Understanding the Intrinsic Electrochemical Mechanism in Rechargeable Battery Materials. <i>Small Methods</i> , <b>2017</b> , 1, 1700083	12.8	42
29	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601582	21.8	70
28	Facile electrospinning formation of carbon-confined metal oxide cube-in-tube nanostructures for stable lithium storage. <i>Chemical Communications</i> , <b>2017</b> , 53, 8284-8287	5.8	30
27	FeSe <sub>2</sub> clusters with excellent cyclability and rate capability for sodium-ion batteries. <i>Nano Research</i> , <b>2017</b> , 10, 3202-3211	10	69
26	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 8212-8221	16.4	598
25	New-type K <sub>0.7</sub> Fe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>2</sub> cathode with an expanded and stabilized interlayer structure for high-capacity sodium-ion batteries. <i>Nano Energy</i> , <b>2017</b> , 35, 71-78	17.1	47
24	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , <b>2017</b> , 17, 544-550	11.5	297
23	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , <b>2017</b> , 8, 460	17.4	90
22	Zn/VO Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42717-42722	9.5	293
21	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. <i>Nano Letters</i> , <b>2017</b> , 17, 7773-7781	11.5	46
20	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. <i>Nanoscale</i> , <b>2017</b> , 9, 18216-18222	7.7	113
19	BnaA.bZIP1 Negatively Regulates a Novel Small Peptide Gene, , Involved in Pollen Activity. <i>Frontiers in Plant Science</i> , <b>2017</b> , 8, 2117	6.2	
18	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. <i>Nano Research</i> , <b>2016</b> , 9, 2445-2457	10	32
17	Gradient-temperature hydrothermal fabrication of hierarchical Zn <sub>2</sub> SnO <sub>4</sub> hollow boxes stimulated by thermodynamic phase transformation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 14095-14100	13	18
16	Electrostatic Assembly of Sandwich-like Ag-C@ZnO-C@Ag-C Hybrid Hollow Microspheres with Excellent High-Rate Lithium Storage Properties. <i>ACS Nano</i> , <b>2016</b> , 10, 1283-91	16.7	99

15	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , <b>2016</b> , 16, 1523-9	11.5	59
14	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. <i>Journal of Power Sources</i> , <b>2016</b> , 304, 340-345	8.9	96
13	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. <i>Nano Research</i> , <b>2016</b> , 9, 128-138	10	57
12	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 19386-92	9.5	225
11	Three dimensional V2O5/NaV6O15 hierarchical heterostructures: Controlled synthesis and synergistic effect investigated by in situ X-ray diffraction. <i>Nano Energy</i> , <b>2016</b> , 27, 147-156	17.1	50
10	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Li-S cathodes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22146-53	3.6	56
9	A synergistic effect between layer surface configurations and K ions of potassium vanadate nanowires for enhanced energy storage performance. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4893-4899	13	54
8	Facile synthesis of reduced graphene oxide wrapped nickel silicate hierarchical hollow spheres for long-life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19427-19432	13	62
7	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26572-8	9.5	71
6	Novel K3V2(PO4)3/C Bundled Nanowires as Superior Sodium-Ion Battery Electrode with Ultrahigh Cycling Stability. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500716	21.8	140
5	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , <b>2015</b> , 6, 7402	17.4	320
4	A Bowknot-like RuO2 quantum dots@V2O5 cathode with largely improved electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 18680-5	3.6	16
3	Research About Optimization Of Campus Network Security System. <i>Procedia Engineering</i> , <b>2011</b> , 15, 1802-1806	2	
2	A mixed-valent vanadium oxide cathode with ultrahigh rate capability for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> ,	13	4
1	Building carbon cloth-based dendrite-free potassium metal anodes for potassium metal pouch cells. <i>Journal of Materials Chemistry A</i> ,	13	5