Xuanpeng Wang

List of Publications by Citations

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	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2017**, 139, 8212-8221	16.4	598
67	Highly Durable NaVO□1.63HO Nanowire Cathode for Aqueous Zinc-Ion Battery. *Nano Letters*, **2018**, 18, 1758-1763	11.5	403
66	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. *Nature Communications*, **2015**, 6, 7402	17.4	320
65	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. *Nature Nanotechnology*, **2019**, 14, 594-601	28.7	300
64	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. *Nano Letters*, **2017**, 17, 544-550	11.5	297
63	Zn/VO Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. *ACS Applied Materials & Interfaces*, **2017**, 9, 42717-42722	9.5	293
62	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2016**, 8, 19386-92	9.5	225
61	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. *Advanced Energy Materials*, **2019**, 9, 1803260	21.8	143
60	Novel K3V2(PO4)3/C Bundled Nanowires as Superior Sodium-Ion Battery Electrode with Ultrahigh Cycling Stability. *Advanced Energy Materials*, **2015**, 5, 1500716	21.8	140
59	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. *Advanced Functional Materials*, **2020**, 30, 1904398	15.6	123
58	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. *Nanoscale*, **2017**, 9, 18216-18222	7.7	113
57	Heterostructured BiS-BiO Nanosheets with a Built-In Electric Field for Improved Sodium Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 7201-7207	9.5	109
56	Aqueous Zn//Zn(CF3SO3)2//Na3V2(PO4)3 batteries with simultaneous Zn2+/Na+ intercalation/de-intercalation. *Nano Energy*, **2019**, 58, 492-498	17.1	103
55	Electrostatic Assembly of Sandwich-like Ag-C@ZnO-C@Ag-C Hybrid Hollow Microspheres with Excellent High-Rate Lithium Storage Properties. *ACS Nano*, **2016**, 10, 1283-91	16.7	99
54	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1804458	15.6	97
53	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. *Journal of Power Sources*, **2016**, 304, 340-345	8.9	96
52	Interface-modulated fabrication of hierarchical yolk□shell Co3O4/C dodecahedrons as stable anodes for lithium and sodium storage. *Nano Research*, **2017**, 10, 2364-2376	10	91

51	Alkaline earth metal vanadates as sodium-ion battery anodes. *Nature Communications*, **2017**, 8, 460	17.4	90
50	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. *Nanoscale*, **2018**, 10, 6820-6826	7.7	89
49	Realizing Three-Electron Redox Reactions in NASICON-Structured Na3MnTi(PO4)3 for Sodium-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803436	21.8	89
48	Identification of Phase Control of Carbon-Confined Nb2O5 Nanoparticles toward High-Performance Lithium Storage. *Advanced Energy Materials*, **2019**, 9, 1802695	21.8	88
47	Porous VO microspheres: a high-capacity cathode material for aqueous zinc-ion batteries. *Chemical Communications*, **2019**, 55, 8486-8489	5.8	72
46	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. *ACS Applied Materials & Interfaces*, **2015**, 7, 26572-8	9.5	71
45	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. *Advanced Energy Materials*, **2017**, 7, 1601582	21.8	70
44	FeSe2 clusters with excellent cyclability and rate capability for sodium-ion batteries. *Nano Research*, **2017**, 10, 3202-3211	10	69
43	Nonhierarchical Heterostructured Fe O /Mn O Porous Hollow Spheres for Enhanced Lithium Storage. *Small*, **2018**, 14, e1800659	11	67
42	Facile synthesis of reduced graphene oxide wrapped nickel silicate hierarchical hollow spheres for long-life lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 19427-19432	13	62
41	Realizing Superior Prussian Blue Positive Electrode for Potassium Storage via Ultrathin Nanosheet Assembly. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11564-11570	8.3	59
40	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. *Nano Letters*, **2016**, 16, 1523-9	11.5	59
39	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. *Nano Research*, **2016**, 9, 128-138	10	57
38	3.0 V High Energy Density Symmetric Sodium-Ion Battery: NaV(PO)||NaV(PO). *ACS Applied Materials & Interfaces*, **2018**, 10, 10022-10028	9.5	56
37	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Li-S cathodes. *Physical Chemistry Chemical Physics*, **2016**, 18, 22146-53	3.6	56
36	Yolk-shell-structured zinc-cobalt binary metal sulfide @ N-doped carbon for enhanced lithium-ion storage. *Nano Energy*, **2019**, 64, 103899	17.1	54
35	A synergistic effect between layer surface configurations and K ions of potassium vanadate nanowires for enhanced energy storage performance. *Journal of Materials Chemistry A*, **2016**, 4, 4893-4899	13	54
34	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. *Energy and Environmental Science*, **2021**, 14, 3796-3839	35.4	53

33	Novel MOF shell-derived surface modification of Li-rich layered oxide cathode for enhanced lithium storage. *Science Bulletin*, **2018**, 63, 46-53	10.6	53
32	Three dimensional V2O5/NaV6O15 hierarchical heterostructures: Controlled synthesis and synergistic effect investigated by in situ X-ray diffraction. *Nano Energy*, **2016**, 27, 147-156	17.1	50
31	New-type K0.7Fe0.5Mn0.5O2 cathode with an expanded and stabilized interlayer structure for high-capacity sodium-ion batteries. *Nano Energy*, **2017**, 35, 71-78	17.1	47
30	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. *Nano Letters*, **2017**, 17, 7773-7781	11.5	46
29	Operando X-ray Diffraction Characterization for Understanding the Intrinsic Electrochemical Mechanism in Rechargeable Battery Materials. *Small Methods*, **2017**, 1, 1700083	12.8	42
28	Realizing stable lithium and sodium storage with high areal capacity using novel nanosheet-assembled compact CaV4O9 microflowers. *Nano Energy*, **2018**, 50, 606-614	17.1	37
27	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. *Nano Research*, **2016**, 9, 2445-2457	10	32
26	Ultrafast cation insertion-selected zinc hexacyanoferrate for 1.9 V K⊠n hybrid aqueous batteries. *Journal of Materials Chemistry A*, **2020**, 8, 6631-6637	13	32
25	General oriented assembly of uniform carbon-confined metal oxide nanodots on graphene for stable and ultrafast lithium storage. *Materials Horizons*, **2018**, 5, 78-85	14.4	32
24	Facile electrospinning formation of carbon-confined metal oxide cube-in-tube nanostructures for stable lithium storage. *Chemical Communications*, **2017**, 53, 8284-8287	5.8	30
23	Insights into the Storage Mechanism of Layered VS2 Cathode in Alkali Metal-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 1904118	21.8	30
22	Facile template-free synthesis of uniform carbon-confined V2O3 hollow spheres for stable and fast lithium storage. *Journal of Materials Chemistry A*, **2018**, 6, 6220-6224	13	29
21	Porous CaFeO as a promising lithium ion battery anode: a trade-off between high capacity and long-term stability. *Nanoscale*, **2018**, 10, 12963-12969	7.7	27
20	Graphene oxide-wrapped dipotassium terephthalate hollow microrods for enhanced potassium storage. *Chemical Communications*, **2018**, 54, 11029-11032	5.8	25
19	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. *Energy Storage Materials*, **2021**, 38, 30-49	19.4	23
18	Three-dimensional graphene-supported nickel disulfide nanoparticles promise stable and fast potassium storage. *Nanoscale*, **2020**, 12, 8255-8261	7.7	21
17	Gradient-temperature hydrothermal fabrication of hierarchical Zn2SnO4 hollow boxes stimulated by thermodynamic phase transformation. *Journal of Materials Chemistry A*, **2016**, 4, 14095-14100	13	18
16	A Bowknot-like RuO2 quantum dots@V2O5 cathode with largely improved electrochemical performance. *Physical Chemistry Chemical Physics*, **2014**, 16, 18680-5	3.6	16

15	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. *Nano Energy*, **2020**, 77, 105069	17.1	15
14	A Synergistic Na-Mn-O Composite Cathodes for High-Capacity Na-Ion Storage. *Advanced Energy Materials*, **2018**, 8, 1802180	21.8	15
13	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO nanoparticles for stable sodium storage. *Chemical Communications*, **2018**, 54, 1469-1472	5.8	14
12	Amine-assisted synthesis of FeS@N-C porous nanowires for highly reversible lithium storage. *Nano Research*, **2018**, 11, 6206-6216	10	14
11	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. *Advanced Materials*, **2021**, e2105611	24	13
10	Eutectic Electrolytes in Advanced Metal-Ion Batteries. *ACS Energy Letters*, **2022**, 7, 247-260	20.1	13
9	A "MOFs plus ZIFs" Strategy toward Ultrafine Co Nanodots Confined into Superficial N-Doped Carbon Nanowires for Efficient Oxygen Reduction. *ACS Applied Materials & Interfaces*, **2020**, 12, 54545-54552	9.5	6
8	Building carbon cloth-based dendrite-free potassium metal anodes for potassium metal pouch cells. *Journal of Materials Chemistry A*,	13	5
7	A Stable CaV4O9 Anode Promises Near-Zero Volume Change and High-Capacity Lithium Storage. *Advanced Energy Materials*, **2021**, 11, 2003612	21.8	5
6	Suppressing the Jahn Teller Effect in Mn-Based Layered Oxide Cathode toward Long-Life Potassium-Ion Batteries. *Advanced Functional Materials*, **2022**, 32, 2108244	15.6	5
5	A mixed-valent vanadium oxide cathode with ultrahigh rate capability for aqueous zinc-ion batteries. *Journal of Materials Chemistry A*,	13	4
4	Cheese-like porous SnP2O7 composite as a long-life and high-rate anode material for potassium-ion batteries. *Chemical Engineering Journal*, **2022**, 439, 135777	14.7	3
3	Research About Optimization Of Campus Network Security System. *Procedia Engineering*, **2011**, 15, 1802-1806		2
2	Ammonium Ion and Structural Water Co-Assisted Zn2+ Intercalation/De-Intercalation in NH4V4O10 .28H2O *Chinese Journal of Chemistry*, **2021**, 39, 1885-1890	4.9	2
1	BnaA.bZIP1 Negatively Regulates a Novel Small Peptide Gene, , Involved in Pollen Activity. *Frontiers in Plant Science*, **2017**, 8, 2117	6.2	