

Xuanpeng Wang

List of Publications by Year in descending order

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73
papers

8,107
citations

50170

46
h-index

76769

74
g-index

75
all docs

75
docs citations

75
times ranked

8768
citing authors

#	ARTICLE	IF	CITATIONS
1	General Oriented Formation of Carbon Nanotubes from Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017, 139, 8212-8221.	6.6	777
2	Highly Durable $\text{Na}_2\text{V}_6\text{O}_{16} \cdot 1.63\text{H}_2\text{O}$ Nanowire Cathode for Aqueous Zinc-Ion Battery. <i>Nano Letters</i> , 2018, 18, 1758-1763.	4.5	568
3	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. <i>Nature Nanotechnology</i> , 2019, 14, 594-601.	15.6	451
4	Zn/ V_2O_5 Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42717-42722.	4.0	401
5	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. <i>Nature Communications</i> , 2015, 6, 7402.	5.8	370
6	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. <i>Nano Letters</i> , 2017, 17, 544-550.	4.5	356
7	Porous Nickel-Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 19386-19392.	4.0	284
8	Vanadium-Based Nanomaterials: A Promising Family for Emerging Metal-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1904398.	7.8	262
9	Comprehensive understanding of the roles of water molecules in aqueous Zn-ion batteries: from electrolytes to electrode materials. <i>Energy and Environmental Science</i> , 2021, 14, 3796-3839.	15.6	257
10	Defect-Rich Soft Carbon Porous Nanosheets for Fast and High-Capacity Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803260.	10.2	214
11	Realizing Three-Electron Redox Reactions in NASICON-Structured $\text{Na}_3\text{MnTi}(\text{PO}_4)_3$ for Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1803436.	10.2	171
12	Aqueous Zn// $\text{Zn}(\text{CF}_3\text{SO}_3)_2$ // $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ batteries with simultaneous $\text{Zn}^{2+}/\text{Na}^+$ intercalation/de-intercalation. <i>Nano Energy</i> , 2019, 58, 492-498.	8.2	161
13	Identification of Phase Control of Carbon-Confined Nb_2O_5 Nanoparticles toward High-Performance Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1802695.	10.2	161
14	Heterostructured Bi_2S_3 - Bi_2O_3 Nanosheets with a Built-In Electric Field for Improved Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 7201-7207.	4.0	153
15	Novel $\text{K}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ Bundled Nanowires as Superior Sodium-Ion Battery Electrode with Ultrahigh Cycling Stability. <i>Advanced Energy Materials</i> , 2015, 5, 1500716.	10.2	150
16	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. <i>Nanoscale</i> , 2017, 9, 18216-18222.	2.8	150
17	Alkaline earth metal vanadates as sodium-ion battery anodes. <i>Nature Communications</i> , 2017, 8, 460.	5.8	136
18	Nanostructured Conversion-Type Negative Electrode Materials for Low-Cost and High-Performance Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804458.	7.8	132

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19	Interface-modulated fabrication of hierarchical yolk-shell Co ₃ O ₄ /C dodecahedrons as stable anodes for lithium and sodium storage. <i>Nano Research</i> , 2017, 10, 2364-2376.	5.8	113
20	Porous V ₂ O ₅ microspheres: a high-capacity cathode material for aqueous zinc-ion batteries. <i>Chemical Communications</i> , 2019, 55, 8486-8489.	2.2	112
21	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> , 2016, 10, 1283-1291.	7.3	109
22	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. <i>Journal of Power Sources</i> , 2016, 304, 340-345.	4.0	109
23	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. <i>Nanoscale</i> , 2018, 10, 6820-6826.	2.8	109
24	Eutectic Electrolyte with Unique Solvation Structure for High-Performance Zinc-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	108
25	Yolk-shell-structured zinc-cobalt binary metal sulfide @ N-doped carbon for enhanced lithium-ion storage. <i>Nano Energy</i> , 2019, 64, 103899.	8.2	93
26	FeSe ₂ clusters with excellent cyclability and rate capability for sodium-ion batteries. <i>Nano Research</i> , 2017, 10, 3202-3211.	5.8	91
27	Realizing Superior Prussian Blue Positive Electrode for Potassium Storage via Ultrathin Nanosheet Assembly. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11564-11570.	3.2	87
28	Nonhierarchical Heterostructured Fe ₂ O ₃ /Mn ₂ O ₃ Porous Hollow Spheres for Enhanced Lithium Storage. <i>Small</i> , 2018, 14, e1800659.	5.2	83
29	Copper Silicate Hydrate Hollow Spheres Constructed by Nanotubes Encapsulated in Reduced Graphene Oxide as Long-Life Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26572-26578.	4.0	82
30	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. <i>Advanced Energy Materials</i> , 2017, 7, 1601582.	10.2	73
31	3.0 V High Energy Density Symmetric Sodium-Ion Battery: Na ₄ V ₂ (PO ₄) ₃ ~Na ₃ V ₂ (PO ₄) ₃ Na ₃ V ₂ (PO ₄) ₃ Na ₄ V ₂ (PO ₄) ₃ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10022-10028.	4.5	73
32	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> , 2015, 3, 19427-19432.	5.2	72
33	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. <i>Nano Letters</i> , 2016, 16, 1523-1529.	4.5	72
34	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. <i>Energy Storage Materials</i> , 2021, 38, 30-49.	9.5	72
35	Novel MOF shell-derived surface modification of Li-rich layered oxide cathode for enhanced lithium storage. <i>Science Bulletin</i> , 2018, 63, 46-53.	4.3	67
36	Insights into the Storage Mechanism of Layered VS ₂ Cathode in Alkali Metal-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1904118.	10.2	67

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37	Ultrafast cation insertion-selected zinc hexacyanoferrate for 1.9 V Zn hybrid aqueous batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6631-6637.	5.2	66
38	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> , 2016, 4, 4893-4899.	5.2	65
39	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. <i>Nano Research</i> , 2016, 9, 128-138.	5.8	64
40	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Li-S cathodes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22146-22153.	1.3	63
41	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. <i>Advanced Materials</i> , 2022, 34, e2105611.	11.1	62
42	Three dimensional V ₂ O ₅ /NaV ₆ O ₁₅ hierarchical heterostructures: Controlled synthesis and synergistic effect investigated by in situ X-ray diffraction. <i>Nano Energy</i> , 2016, 27, 147-156.	8.2	61
43	Eutectic Electrolytes in Advanced Metal-Ion Batteries. <i>ACS Energy Letters</i> , 2022, 7, 247-260.	8.8	61
44	New-type K _{0.7} Fe _{0.5} Mn _{0.5} O ₂ cathode with an expanded and stabilized interlayer structure for high-capacity sodium-ion batteries. <i>Nano Energy</i> , 2017, 35, 71-78.	8.2	60
45	Operando X-ray Diffraction Characterization for Understanding the Intrinsic Electrochemical Mechanism in Rechargeable Battery Materials. <i>Small Methods</i> , 2017, 1, 1700083.	4.6	58
46	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. <i>Nano Letters</i> , 2017, 17, 7773-7781.	4.5	53
47	Suppressing the Jahn-Teller Effect in Mn-Based Layered Oxide Cathode toward Long-Life Potassium-Ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	52
48	Facile template-free synthesis of uniform carbon-confined V ₂ O ₃ hollow spheres for stable and fast lithium storage. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6220-6224.	5.2	47
49	Realizing stable lithium and sodium storage with high areal capacity using novel nanosheet-assembled compact CaV ₄ O ₉ microflowers. <i>Nano Energy</i> , 2018, 50, 606-614.	8.2	47
50	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. <i>Nano Research</i> , 2016, 9, 2445-2457.	5.8	40
51	Amine-Wetting-Enabled Dendrite-Free Potassium Metal Anode. <i>ACS Nano</i> , 2022, 16, 7291-7300.	7.3	36
52	General oriented assembly of uniform carbon-confined metal oxide nanodots on graphene for stable and ultrafast lithium storage. <i>Materials Horizons</i> , 2018, 5, 78-85.	6.4	35
53	Three-dimensional graphene-supported nickel disulfide nanoparticles promise stable and fast potassium storage. <i>Nanoscale</i> , 2020, 12, 8255-8261.	2.8	35
54	Facile electrospinning formation of carbon-confined metal oxide cube-in-tube nanostructures for stable lithium storage. <i>Chemical Communications</i> , 2017, 53, 8284-8287.	2.2	34

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55	Porous CaFe ₂ O ₄ as a promising lithium ion battery anode: a trade-off between high capacity and long-term stability. <i>Nanoscale</i> , 2018, 10, 12963-12969.	2.8	33
56	Universal multifunctional hydrogen bond network construction strategy for enhanced aqueous Zn ²⁺ /proton hybrid batteries. <i>Nano Energy</i> , 2022, 100, 107539.	8.2	33
57	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. <i>Nano Energy</i> , 2020, 77, 105069.	8.2	32
58	A mixed-valent vanadium oxide cathode with ultrahigh rate capability for aqueous zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22392-22398.	5.2	30
59	Graphene oxide-wrapped dipotassium terephthalate hollow microrods for enhanced potassium storage. <i>Chemical Communications</i> , 2018, 54, 11029-11032.	2.2	29
60	Building carbon cloth-based dendrite-free potassium metal anodes for potassium metal pouch cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23046-23054.	5.2	27
61	Advances and perspectives on one-dimensional nanostructure electrode materials for potassium-ion batteries. <i>Materials Today</i> , 2022, 56, 114-134.	8.3	26
62	Gradient-temperature hydrothermal fabrication of hierarchical Zn ₂ SnO ₄ hollow boxes stimulated by thermodynamic phase transformation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14095-14100.	5.2	23
63	A Synergistic Na-Mn-O Composite Cathodes for High-Capacity Na-ion Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1802180.	10.2	21
64	A MOFs plus ZIFs Strategy toward Ultrafine Co Nanodots Confined into Superficial N-Doped Carbon Nanowires for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54545-54552.	4.0	21
65	Amine-assisted synthesis of FeS@N-C porous nanowires for highly reversible lithium storage. <i>Nano Research</i> , 2018, 11, 6206-6216.	5.8	20
66	Ammonium Ion and Structural Water Co-Assisted Zn ²⁺ Intercalation/Deintercalation in NH ₄ V ₄ O ₁₀ · 28H ₂ O. <i>Chinese Journal of Chemistry</i> , 2021, 39, 1885-1890.	2.6	19
67	A Bowknot-like RuO ₂ quantum dots@V ₂ O ₅ cathode with largely improved electrochemical performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 18680-18685.	1.3	17
68	A Stable CaV ₄ O ₉ Anode Promises Near-Zero Volume Change and High-Capacity Lithium Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2003612.	10.2	16
69	Eutectic Electrolyte with Unique Solvation Structure for High-Performance Zinc-Ion Batteries. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	16
70	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO ₂ nanoparticles for stable sodium storage. <i>Chemical Communications</i> , 2018, 54, 1469-1472.	2.2	14
71	Cheese-like porous SnP ₂ O ₇ composite as a long-life and high-rate anode material for potassium-ion batteries. <i>Chemical Engineering Journal</i> , 2022, 439, 135777.	6.6	12
72	Research About Optimization Of Campus Network Security System. <i>Procedia Engineering</i> , 2011, 15, 1802-1806.	1.2	3

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73	BnaA.bZIP1 Negatively Regulates a Novel Small Peptide Gene, BnaC.SP6, Involved in Pollen Activity. <i>Frontiers in Plant Science</i> , 2017, 8, 2117.	1.7	1