Xuanpeng Wang

List of Publications by Year
in descending order

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		50170	76769
73	8,107	46	74
papers	citations	h-index	g-index

75	75	75	8768
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. Advanced Materials, 2022, 34, e2105611.	11.1	62
2	Cheese-like porous SnP2O7 composite as a long-life and high-rate anode material for potassium-ion batteries. Chemical Engineering Journal, 2022, 439, 135777.	6.6	12
3	Eutectic Electrolytes in Advanced Metal-Ion Batteries. ACS Energy Letters, 2022, 7, 247-260.	8.8	61
4	Suppressing the Jahnâ€“Teller Effect in Mnâ€Based Layered Oxide Cathode toward Longâ€Life Potassiumâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	52
5	Amine-Wetting-Enabled Dendrite-Free Potassium Metal Anode. ACS Nano, 2022, 16, 7291-7300.	7.3	36
6	Eutectic Electrolyte with Unique Solvation Structure for Highâ€Performance Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	108
7	Eutectic Electrolyte with Unique Solvation Structure for Highâ€Performance Zincâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.6	16
8	Advances and perspectives on one-dimensional nanostructure electrode materials for potassium-ion batteries. Materials Today, 2022, 56, 114-134.	8.3	26
9	Universal multifunctional hydrogen bond network construction strategy for enhanced aqueous Zn2+/proton hybrid batteries. Nano Energy, 2022, 100, 107539.	8.2	33
10	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.	15.6	257
11	A mixed-valent vanadium oxide cathode with ultrahigh rate capability for aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2021, 9, 22392-22398.	5.2	30
12	Building carbon cloth-based dendrite-free potassium metal anodes for potassium metal pouch cells. Journal of Materials Chemistry A, 2021, 9, 23046-23054.	5.2	27
13	A Stable CaV₄O₉ÂAnode Promises Nearâ€Zero Volume Change and Highâ€Capacity Lithium Storage. Advanced Energy Materials, 2021, 11, 2003612.	10.2	16
14	Ammonium Ion and Structural Water <scp>Coâ€Assisted</scp> Zn²⁺ Intercalation/<scp>Deâ€Intercalation</scp> in <scp>NH₄V₄O₁₀</scp>â^™0.<scp>28H₂O</scp>^{â€}. Chinese Journal of Chemistry, 2021, 39, 1885-1890.	2.6	19
15	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. Energy Storage Materials, 2021, 38, 30-49.	9.5	72
16	Vanadiumâ€Based Nanomaterials: A Promising Family for Emerging Metalâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1904398.	7.8	262
17	A â€œMOFs plus ZIFsâ€•Strategy toward Ultrafine Co Nanodots Confined into Superficial N-Doped Carbon Nanowires for Efficient Oxygen Reduction. ACS Applied Materials & Interfaces, 2020, 12, 54545-54552.	4.0	21
18	Three-dimensional graphene-supported nickel disulfide nanoparticles promise stable and fast potassium storage. Nanoscale, 2020, 12, 8255-8261.	2.8	35

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19	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. Nano Energy, 2020, 77, 105069.	8.2	32
20	Insights into the Storage Mechanism of Layered VS₂ Cathode in Alkali Metalâ€Ion Batteries. Advanced Energy Materials, 2020, 10, 1904118.	10.2	67
21	Ultrafast cation insertion-selected zinc hexacyanoferrate for 1.9ÂV Kâ€“Zn hybrid aqueous batteries. Journal of Materials Chemistry A, 2020, 8, 6631-6637.	5.2	66
22	Yolk-shell-structured zinc-cobalt binary metal sulfide @ N-doped carbon for enhanced lithium-ion storage. Nano Energy, 2019, 64, 103899.	8.2	93
23	Aqueous Zn//Zn(CF3SO3)2//Na3V2(PO4)3 batteries with simultaneous Zn2+/Na+ intercalation/de-intercalation. Nano Energy, 2019, 58, 492-498.	8.2	161
24	Porous V₂O₅ microspheres: a high-capacity cathode material for aqueous zincâ€“ion batteries. Chemical Communications, 2019, 55, 8486-8489.	2.2	112
25	Realizing Superior Prussian Blue Positive Electrode for Potassium Storage via Ultrathin Nanosheet Assembly. ACS Sustainable Chemistry and Engineering, 2019, 7, 11564-11570.	3.2	87
26	Self-smoothing anode for achieving high-energy lithium metal batteries under realistic conditions. Nature Nanotechnology, 2019, 14, 594-601.	15.6	451
27	Identification of Phase Control of Carbonâ€Confined Nb₂O₅ Nanoparticles toward Highâ€Performance Lithium Storage. Advanced Energy Materials, 2019, 9, 1802695.	10.2	161
28	Realizing Threeâ€Electron Redox Reactions in NASICONâ€Structured Na₃MnTi(PO₄)₃ for Sodiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1803436.	10.2	171
29	Defectâ€Rich Soft Carbon Porous Nanosheets for Fast and Highâ€Capacity Sodiumâ€Ion Storage. Advanced Energy Materials, 2019, 9, 1803260.	10.2	214
30	Three-dimensional carbon network confined antimony nanoparticle anodes for high-capacity K-ion batteries. Nanoscale, 2018, 10, 6820-6826.	2.8	109
31	3.0 V High Energy Density Symmetric Sodium-Ion Battery: Na₄V₂(PO₄)₃â^¥Na₃V₂(PO₄)₃ ACS Applied Materials & Interfaces, 2018, 10, 10022-10028.	8.4	78
32	Highly Durable Na₂V₆O₁₆Â·1.63H₂O Nanowire Cathode for Aqueous Zinc-Ion Battery. Nano Letters, 2018, 18, 1758-1763.	4.5	568
33	Heterostructured Bi₂S₃â€“Bi₂O₃ Nanosheets with a Built-In Electric Field for Improved Sodium Storage. ACS Applied Materials & Interfaces, 2018, 10, 7201-7207.	4.0	153
34	Stepwise chelation-etching synthesis of carbon-confined ultrafine SnO2 nanoparticles for stable sodium storage. Chemical Communications, 2018, 54, 1469-1472.	2.2	14
35	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.	5.2	47
36	Novel MOF shell-derived surface modification of Li-rich layered oxide cathode for enhanced lithium storage. Science Bulletin, 2018, 63, 46-53.	4.3	67

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37	General oriented assembly of uniform carbon-confined metal oxide nanodots on graphene for stable and ultrafast lithium storage. Materials Horizons, 2018, 5, 78-85.	6.4	35
38	A Synergistic Naâ€Mnâ€O Composite Cathodes for Highâ€Capacity Naâ€Ion Storage. Advanced Energy Materials, 2018, 8, 1802180.	10.2	21
39	Nanostructured Conversionâ€Type Negative Electrode Materials for Lowâ€Cost and Highâ€Performance Sodiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1804458.	7.8	132
40	Graphene oxide-wrapped dipotassium terephthalate hollow microrods for enhanced potassium storage. Chemical Communications, 2018, 54, 11029-11032.	2.2	29
41	Nonhierarchical Heterostructured Fe₂O₃/Mn₂O₃ Porous Hollow Spheres for Enhanced Lithium Storage. Small, 2018, 14, e1800659.	5.2	83
42	Porous CaFe₂O₄ as a promising lithium ion battery anode: a trade-off between high capacity and long-term stability. Nanoscale, 2018, 10, 12963-12969.	2.8	33
43	Amine-assisted synthesis of FeS@N-C porous nanowires for highly reversible lithium storage. Nano Research, 2018, 11, 6206-6216.	5.8	20
44	Realizing stable lithium and sodium storage with high areal capacity using novel nanosheet-assembled compact CaV4O9 microflowers. Nano Energy, 2018, 50, 606-614.	8.2	47
45	Interface-modulated fabrication of hierarchical yolkâ€“shell Co3O4/C dodecahedrons as stable anodes for lithium and sodium storage. Nano Research, 2017, 10, 2364-2376.	5.8	113
46	Operando Xâ€ray Diffraction Characterization for Understanding the Intrinsic Electrochemical Mechanism in Rechargeable Battery Materials. Small Methods, 2017, 1, 1700083.	4.6	58
47	Thermal Induced Strain Relaxation of 1D Iron Oxide for Solid Electrolyte Interphase Control and Lithium Storage Improvement. Advanced Energy Materials, 2017, 7, 1601582.	10.2	73
48	Facile electrospinning formation of carbon-confined metal oxide cube-in-tube nanostructures for stable lithium storage. Chemical Communications, 2017, 53, 8284-8287.	2.2	34
49	FeSe2 clusters with excellent cyclability and rate capability for sodium-ion batteries. Nano Research, 2017, 10, 3202-3211.	5.8	91
50	General Oriented Formation of Carbon Nanotubes from Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2017, 139, 8212-8221.	6.6	777
51	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.	8.2	60
52	Earth Abundant Fe/Mn-Based Layered Oxide Interconnected Nanowires for Advanced K-Ion Full Batteries. Nano Letters, 2017, 17, 544-550.	4.5	356
53	Alkaline earth metal vanadates as sodium-ion battery anodes. Nature Communications, 2017, 8, 460.	5.8	136
54	Zn/V₂O₅ Aqueous Hybrid-Ion Battery with High Voltage Platform and Long Cycle Life. ACS Applied Materials & Interfaces, 2017, 9, 42717-42722.	4.0	401

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55	General Oriented Synthesis of Precise Carbon-Confined Nanostructures by Low-Pressure Vapor Superassembly and Controlled Pyrolysis. Nano Letters, 2017, 17, 7773-7781.	4.5	53
56	Polycrystalline soft carbon semi-hollow microrods as anode for advanced K-ion full batteries. Nanoscale, 2017, 9, 18216-18222.	2.8	150
57	BnaA.bZIP1 Negatively Regulates a Novel Small Peptide Gene, BnaC.SP6, Involved in Pollen Activity. Frontiers in Plant Science, 2017, 8, 2117.	1.7	1
58	Porous Nickelâ€“Iron Selenide Nanosheets as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2016, 8, 19386-19392.	4.0	284
59	Three dimensional V2O5/NaV6O15 hierarchical heterostructures: Controlled synthesis and synergistic effect investigated by in situ X-ray diffraction. Nano Energy, 2016, 27, 147-156.	8.2	61
60	A facile synthesis of three dimensional graphene sponge composited with sulfur nanoparticles for flexible Liâ€“S cathodes. Physical Chemistry Chemical Physics, 2016, 18, 22146-22153.	1.3	63
61	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.	5.2	65
62	Interface-modulated approach toward multilevel metal oxide nanotubes for lithium-ion batteries and oxygen reduction reaction. Nano Research, 2016, 9, 2445-2457.	5.8	40
63	Gradient-temperature hydrothermal fabrication of hierarchical Zn₂SnO₄ hollow boxes stimulated by thermodynamic phase transformation. Journal of Materials Chemistry A, 2016, 4, 14095-14100.	5.2	23
64	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, 1283-1291.	7.3	109
65	Single-Nanowire Electrochemical Probe Detection for Internally Optimized Mechanism of Porous Graphene in Electrochemical Devices. Nano Letters, 2016, 16, 1523-1529.	4.5	72
66	Antimony nanoparticles anchored in three-dimensional carbon network as promising sodium-ion battery anode. Journal of Power Sources, 2016, 304, 340-345.	4.0	109
67	Carbon-supported and nanosheet-assembled vanadium oxide microspheres for stable lithium-ion battery anodes. Nano Research, 2016, 9, 128-138.	5.8	64
68	Novel K₃V₂(PO₄)₃/C Bundled Nanowires as Superior Sodiumâ€ion Battery Electrode with Ultrahigh Cycling Stability. Advanced Energy Materials, 2015, 5, 1500716.	10.2	150
69	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. Nature Communications, 2015, 6, 7402.	5.8	370
70	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.	5.2	72
71	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, 26572-26578.	4.0	82
72	A Bowknot-like RuO₂ quantum dots@V₂O₅ cathode with largely improved electrochemical performance. Physical Chemistry Chemical Physics, 2014, 16, 18680-18685.	1.3	17

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73	Research About Optimization Of Campus Network Security System. Procedia Engineering, 2011, 15, 1802-1806.	1.2	3