Kangli Wang

List of Publications by Year
in descending order

56 papers	3,821 citations	136885 32 h-index	161767 54 g-index
56 all docs	56 docs citations	56 times ranked	4206 citing authors

#	Article	IF	Citations
1	A high performance sulfur-doped disordered carbon anode for sodium ion batteries. Energy and Environmental Science, 2015, 8, 2916-2921.	15.6	535
2	A long-life aqueous Zn-ion battery based on Na3V2(PO4)2F3 cathode. Energy Storage Materials, 2018, 15, 14-21.	9.5	402
3	Advanced Low-Cost, High-Voltage, Long-Life Aqueous Hybrid Sodium/Zinc Batteries Enabled by a Dendrite-Free Zinc Anode and Concentrated Electrolyte. ACS Applied Materials & Interfaces, 2018, 10, 22059-22066.	4.0	226
4	An Ultrastable Presodiated Titanium Disulfide Anode for Aqueous â€œRockingâ€Chairâ€•Zinc Ion Battery. Advanced Energy Materials, 2019, 9, 1900993.	10.2	178
5	Surface-dominated storage of heteroatoms-doping hard carbon for sodium-ion batteries. Energy Storage Materials, 2020, 27, 43-50.	9.5	165
6	Liquid Metal Electrodes for Energy Storage Batteries. Advanced Energy Materials, 2016, 6, 1600483.	10.2	139
7	Controllable construction of 3D-skeleton-carbon coated Na 3 V 2 (PO 4) 3 for high-performance sodium ion battery cathode. Nano Energy, 2016, 20, 11-19.	8.2	128
8	Highâ€Performance Manganese Hexacyanoferrate with Cubic Structure as Superior Cathode Material for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1908754.	7.8	126
9	TiS₂ as an Advanced Conversion Electrode for Sodiumâ€Ion Batteries with Ultraâ€High Capacity and Longâ€Cycle Life. Advanced Science, 2018, 5, 1801021.	5.6	101
10	Tailoring 2D Heteroatomâ€Doped Carbon Nanosheets with Dominated Pseudocapacitive Behaviors Enabling Fast and Highâ€Performance Sodium Storage. Advanced Functional Materials, 2020, 30, 1909907.	7.8	93
11	High Performance Liquid Metal Battery with Environmentally Friendly Antimonyâ€“Tin Positive Electrode. ACS Applied Materials & Interfaces, 2016, 8, 12830-12835.	4.0	92
12	Poly(vinylidene fluoride)-based hybrid gel polymer electrolytes for additive-free lithium sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 17889-17895.	5.2	91
13	Experimental design and theoretical calculation for sulfur-doped carbon nanofibers as a high performance sodium-ion battery anode. Journal of Materials Chemistry A, 2019, 7, 10239-10245.	5.2	91
14	Ultrahigh Phosphorus Doping of Carbon for Highâ€Rate Sodium Ion Batteries Anode. Advanced Energy Materials, 2021, 11, 2003911.	10.2	91
15	A Low Cost Aqueous Znâ€“S Battery Realizing Ultrahigh Energy Density. Advanced Science, 2020, 7, 2000761.	5.6	86
16	A high energy efficiency and long life aqueous Znâ€“I₂ battery. Journal of Materials Chemistry A, 2020, 8, 3785-3794.	5.2	82
17	Nickel sulfide nanospheres anchored on reduced graphene oxide in situ doped with sulfur as a high performance anode for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 9322-9328.	5.2	78
18	Na₃V₂(PO₄)₃/C synthesized by a facile solid-phase method assisted with agarose as a high-performance cathode for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 10261-10268.	5.2	74

#	Article	IF	Citations
19	Controllable Electrochemical Synthesis of Copper Sulfides as Sodium-Ion Battery Anodes with Superior Rate Capability and Ultralong Cycle Life. ACS Applied Materials & Interfaces, 2018, 10, 8016-8025.	4.0	73
20	Facile Tailoring of Multidimensional Nanostructured Sb for Sodium Storage Applications. ACS Nano, 2019, 13, 9533-9540.	7.3	62
21	MoS2@rGO Nanoflakes as High Performance Anode Materials in Sodium Ion Batteries. Scientific Reports, 2017, 7, 7963.	1.6	53
22	A two-dimensional hybrid of SbO_xnanoplates encapsulated by carbon flakes as a high performance sodium storage anode. Journal of Materials Chemistry A, 2017, 5, 1160-1167.	5.2	47
23	An in Situ Prepared Covalent Sulfurâ€“Carbon Composite Electrode for High-Performance Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Energy Letters, 2020, 5, 1307-1315.	8.8	46
24	Glycol Derived Carbon- TiO2 as Low Cost and High Performance Anode Material for Sodium-Ion Batteries. Scientific Reports, 2017, 7, 43895.	1.6	42
25	Nano-embedded microstructured FeS₂@C as a high capacity and cycling-stable Na-storage anode in an optimized ether-based electrolyte. Journal of Materials Chemistry A, 2018, 6, 24425-24432.	5.2	42
26	A polyimideâ€“MWCNTs composite as high performance anode for aqueous Na-ion batteries. RSC Advances, 2016, 6, 53319-53323.	1.7	41
27	3D Spatial Combination of CN Vacancyâ€Mediated NiFeâ€PBA with Nâ€Doped Carbon Nanofibers Network Toward Freeâ€Standing Bifunctional Electrode for Znâ€“Air Batteries. Advanced Science, 2022, 9, e2105925.	5.6	40
28	Rational design of yolkâ€“shell silicon dioxide@hollow carbon spheres as advanced Liâ€“S cathode hosts. Nanoscale, 2017, 9, 14881-14887.	2.8	38
29	CF₄ Plasmaâ€Generated LiFâ€Li₂C₂ Artificial Layers for Dendriteâ€Free Lithiumâ€Metal Anodes. Advanced Science, 2022, 9, .	5.6	37
30	Layered SnS2 cross-linked by carbon nanotubes as a high performance anode for sodium ion batteries. RSC Advances, 2016, 6, 35197-35202.	1.7	36
31	A sodium liquid metal battery based on the multi-cationic electrolyte for grid energy storage. Energy Storage Materials, 2022, 50, 572-579.	9.5	35
32	Phosphorus-doped activated carbon as a promising additive for high performance lead carbon batteries. RSC Advances, 2017, 7, 4174-4178.	1.7	33
33	Enhanced Na⁺ pseudocapacitance in a P, S co-doped carbon anode arising from the surface modification by sulfur and phosphorus with Câ€“Sâ€“P coupling. Journal of Materials Chemistry A, 2020, 8, 422-432.	5.2	33
34	Lithium Sulfonate/Carboxylate-Anchored Polyvinyl Alcohol Separators for Lithium Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18310-18315.	4.0	32
35	Controllable electrolytic formation of Ti₂O as an efficient sulfur host in lithiumâ€“sulfur (Liâ€“S) batteries. Journal of Materials Chemistry A, 2020, 8, 11224-11232.	5.2	32
36	Molten salt electrochemical synthesis of sodium titanates as high performance anode materials for sodium ion batteries. Journal of Materials Chemistry A, 2015, 3, 16495-16500.	5.2	30

#	Article	IF	Citations
37	Tuning microstructures of hard carbon for high capacity and rate sodium storage. Chemical Engineering Journal, 2021, 417, 128104.	6.6	30
38	Investigation of the mechanism of metalâ€“organic frameworks preventing polysulfide shuttling from the perspective of composition and structure. Journal of Materials Chemistry A, 2020, 8, 6661-6669.	5.2	28
39	Highly conjugated poly(N-heteroacene) nanofibers for reversible Na storage with ultra-high capacity and a long cycle life. Journal of Materials Chemistry A, 2018, 6, 18592-18598.	5.2	26
40	Utilizing in situ alloying reaction to achieve the self-healing, high energy density and cost-effective Li||Sb liquid metal battery. Journal of Power Sources, 2021, 514, 230578.	4.0	26
41	Electrospinning synthesis of Co₃O₄@C nanofibers as a high-performance anode for sodium ion batteries. RSC Advances, 2017, 7, 23122-23126.	1.7	22
42	Selenium as Extra Binding Site for Sulfur Species in Sulfurized Polyacrylonitrile Cathodes for High Capacity Lithiumâ€Sulfur Batteries. ChemElectroChem, 2019, 6, 1365-1370.	1.7	22
43	Battery management system for Liâ€ion battery. Journal of Engineering, 2017, 2017, 1437-1440.	0.6	21
44	Thermal Modulation of MOF and Its Application in Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2019, 11, 46792-46799.	4.0	21
45	Facile synthesis of an Fe₃O₄/FeO/Fe/C composite as a high-performance anode for lithium-ion batteries. RSC Advances, 2016, 6, 89715-89720.	1.7	20
46	Crystal water assisting MoS2 nanoflowers for reversible zinc storage. Journal of Alloys and Compounds, 2021, 872, 159599.	2.8	18
47	Designing a slope-dominated hybrid nanostructure hard carbon anode for high-safety and high-capacity Na-ion batteries. Journal of Materials Chemistry A, 2020, 8, 22613-22619.	5.2	15
48	An in situ self-assembled 3D zincophilic heterogeneous metal layer on a zinc metal surface for dendrite-free aqueous zinc-ion batteries. Sustainable Energy and Fuels, 2021, 5, 5843-5850.	2.5	10
49	Low-valence titanium oxides synthesized by electric field control as novel conversion anodes for high performance sodium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 10458-10465.	5.2	8
50	Electrochemical Properties and Kinetics of Asymmetric Sodium Benzeneâ€1,2,4â€tricarboxylate as an Anode Material for Sodiumâ€Organic Batteries. ChemElectroChem, 2020, 7, 3517-3521.	1.7	6
51	Selfâ€Polymerized Disordered Carbon Enabling High Sodium Storage Performance through Expanded Interlayer Spacing by Bound Sulfur Atoms. ChemElectroChem, 2018, 5, 3206-3212.	1.7	5
52	Building High Performance Li-S Batteries by Compositing Nanosized Sulfur and Conductive Adsorbent within MWCNTs. Journal of the Electrochemical Society, 2019, 166, A3401-A3408.	1.3	4
53	The insight into promoting sodium storage mechanism of Î±-CrPO4-type NaV3(PO4)3 anode material for sodium-ion batteries. Journal of Power Sources, 2020, 463, 228194.	4.0	4
54	Structural and electrochemical characterization of LiMn2O4 and Li1.05Mn1.97Nb0.03O4 with excellent high-temperature cycling stability synthesized by a simple route. Journal of Applied Electrochemistry, 2020, 50, 451-462.	1.5	3

#	Article	IF	Citations
55	State of Charge Estimation for Liquid Metal Batteries with Gaussian Process Regression Framework. , 2022, , .		2
56	Accuracy improvement of remaining capacity estimation for energy storage batteries. Journal of Engineering, 2017, 2017, 1833-1837.	0.6	0