Xiaoqi Sun

List of Publications by Year
in descending order

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64	4,902	159525 30	114418 63
papers	citations	h-index	g-index

64	64	64	5541
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A facile surface chemistry route to a stabilized lithium metal anode. Nature Energy, 2017, 2, .	19.8	864
2	High Mass Loading MnO₂ with Hierarchical Nanostructures for Supercapacitors. ACS Nano, 2018, 12, 3557-3567.	7.3	447
3	A high capacity thiospinel cathode for Mg batteries. Energy and Environmental Science, 2016, 9, 2273-2277.	15.6	349
4	A Longâ€Cycleâ€Life Selfâ€Doped Polyaniline Cathode for Rechargeable Aqueous Zinc Batteries. Angewandte Chemie - International Edition, 2018, 57, 16359-16363.	7.2	346
5	Layered TiS₂ Positive Electrode for Mg Batteries. ACS Energy Letters, 2016, 1, 297-301.	8.8	310
6	Investigation of the Mechanism of Mg Insertion in Birnessite in Nonaqueous and Aqueous Rechargeable Mg-Ion Batteries. Chemistry of Materials, 2016, 28, 534-542.	3.2	287
7	Solvent-Engineered Design of Argyrodite Li₆PS₅X (X = Cl, Br, I) Solid Electrolytes with High Ionic Conductivity. ACS Energy Letters, 2019, 4, 265-270.	8.8	207
8	A high capacity small molecule quinone cathode for rechargeable aqueous zinc-organic batteries. Nature Communications, 2021, 12, 4424.	5.8	180
9	Ammoniumâ€Ion Storage Using Electrodeposited Manganese Oxides. Angewandte Chemie - International Edition, 2021, 60, 5718-5722.	7.2	155
10	Methods and Protocols for Electrochemical Energy Storage Materials Research. Chemistry of Materials, 2017, 29, 90-105.	3.2	141
11	Inhibiting VOPO₄â‹…xâ€‰H₂O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. Angewandte Chemie - International Edition, 2019, 58, 16057-16061.	7.2	125
12	A Zn(ClO₄)₂ Electrolyte Enabling Long-Life Zinc Metal Electrodes for Rechargeable Aqueous Zinc Batteries. ACS Applied Materials & Interfaces, 2019, 11, 42000-42005.	4.0	111
13	A Longâ€Cycleâ€Life Selfâ€Doped Polyaniline Cathode for Rechargeable Aqueous Zinc Batteries. Angewandte Chemie, 2018, 130, 16597-16601.	1.6	107
14	Prussian Blue Mgï£¿Li Hybrid Batteries. Advanced Science, 2016, 3, 1600044.	5.6	89
15	Screening for positive electrodes for magnesium batteries: a protocol for studies at elevated temperatures. Chemical Communications, 2016, 52, 12458-12461.	2.2	86
16	A polyanionic molybdenophosphate anode for a 2.7â€Ѵ aqueous pseudocapacitor. Nano Energy, 2019, 65, 104010.	8.2	55
17	VO_x@MoO₃ Nanorod Composite for Highâ€Performance Supercapacitors. Advanced Functional Materials, 2018, 28, 1803901.	7.8	52
18	Fundamental understanding of the proton and zinc storage in vanadium oxide for aqueous zinc-ion batteries. Chemical Engineering Journal, 2021, 419, 129491.	6.6	45

#	Article	IF	Citations
19	Ultra-rapid microwave synthesis of triplite LiFeSO4F. Journal of Materials Chemistry A, 2013, 1, 2990.	5.2	43
20	Electrochemical in situ construction of vanadium oxide heterostructures with boosted pseudocapacitive charge storage. Journal of Materials Chemistry A, 2020, 8, 1176-1183.	5.2	43
21	Electrode and electrolyte regulation to promote coulombic efficiency and cycling stability of aqueous zinc-iodine batteries. Chemical Engineering Journal, 2022, 428, 131283.	6.6	43
22	Redox Polyâ€Counterion Doped Conducting Polymers for Pseudocapacitive Energy Storage. Advanced Functional Materials, 2021, 31, .	7.8	42
23	Realizing the leucoemeraldine-emeraldine-pernigraniline redox reactions in polyaniline cathode materials for aqueous zinc-polymer batteries. Chemical Engineering Journal, 2022, 427, 131988.	6.6	40
24	A Longâ€Life Manganese Oxide Cathode Material for Aqueous Zinc Batteries with a Negatively Charged Porous Host to Promote the Backâ€Deposition of Dissolved Mn²⁺. Advanced Functional Materials, 2022, 32, 2106994.	7.8	39
25	Monovalent versus Divalent Cation Diffusion in Thiospinel Ti₂S₄. Journal of Physical Chemistry Letters, 2017, 8, 2253-2257.	2.1	37
26	NaV_{1.25}Ti_{0.75}O₄: A Potential Post-Spinel Cathode Material for Mg Batteries. Chemistry of Materials, 2018, 30, 121-128.	3.2	37
27	Insights into Mg²⁺ Intercalation in a Zero-Strain Material: Thiospinel Mg_xZr₂S₄. Chemistry of Materials, 2018, 30, 4683-4693.	3.2	36
28	The controlled quinone introduction and conformation modification of polyaniline cathode materials for rechargeable aqueous zinc-polymer batteries. Chemical Engineering Journal, 2021, 419, 129659.	6.6	35
29	Direct Nanoâ€Synthesis Methods Notably Benefit Mgâ€Battery Cathode Performance. Small Methods, 2020, 4, 2000029.	4.6	33
30	Disproportionation enabling reversible MnO2/Mn2+ transformation in a mild aqueous Zn-MnO2 hybrid battery. Chemical Engineering Journal, 2022, 430, 133064.	6.6	33
31	High-Voltage Manganese Oxide Cathode with Two-Electron Transfer Enabled by a Phosphate Proton Reservoir for Aqueous Zinc Batteries. ACS Energy Letters, 2022, 7, 1814-1819.	8.8	33
32	Boosting the pseudocapacitance of nitrogen-rich carbon nanorod arrays for electrochemical capacitors. Journal of Materials Chemistry A, 2019, 7, 12086-12094.	5.2	32
33	Decavanadate Doped Polyaniline for Aqueous Zinc Batteries. Small, 2022, 18, e2107689.	5.2	32
34	Strongly coupled polypyrrole/molybdenum oxide hybrid films via electrochemical layer-by-layer assembly for pseudocapacitors. Journal of Materials Chemistry A, 2019, 7, 9815-9821.	5.2	28
35	Activating the Highly Reversible Mo⁴⁺/Mo⁵⁺ Redox Couple in Amorphous Molybdenum Oxide for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2020, 12, 48565-48571.	4.0	28
36	Impact of intermediate sites on bulk diffusion barriers: Mg intercalation in Mg₂Mo₃O₈. Journal of Materials Chemistry A, 2016, 4, 17643-17648.	5.2	27

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37	Ammoniumâ€ion Storage Using Electrodeposited Manganese Oxides. Angewandte Chemie, 2021, 133, 5782-5786.	1.6	26
38	Morphology engineering of electro-deposited iron oxides for aqueous rechargeable Ni/Fe battery applications. Chemical Engineering Journal, 2018, 354, 672-679.	6.6	22
39	Heterojunction induced activation of iron oxide anode for high-power aqueous batteries. Chemical Engineering Journal, 2020, 400, 125874.	6.6	21
40	The Development of Vanadyl Phosphate Cathode Materials for Energy Storage Systems: A Review. Chemistry - A European Journal, 2020, 26, 8190-8204.	1.7	21
41	Extending the cycle life of high mass loading MoOx electrode for supercapacitor applications. Electrochimica Acta, 2019, 325, 134877.	2.6	20
42	Enabling Reversible MnO₂/Mn²⁺ Transformation by Al³⁺ Addition for Aqueous Znâ€“MnO₂ Hybrid Batteries. ACS Applied Materials & Interfaces, 2022, 14, 10526-10534.	4.0	20
43	A polybromide confiner with selective bromide conduction for high performance aqueous zinc-bromine batteries. Energy Storage Materials, 2022, 49, 11-18.	9.5	20
44	Protonating imine sites of polyaniline for aqueous zinc batteries. Chemical Communications, 2022, 58, 1693-1696.	2.2	17
45	An amphoteric betaine electrolyte additive enabling a stable Zn metal anode for aqueous batteries. Chemical Communications, 2022, 58, 8504-8507.	2.2	15
46	Tailoring the molecular structure of pyridine-based polymers for enhancing performance of anion exchange electrolyte membranes. Renewable Energy, 2022, 194, 366-377.	4.3	13
47	Regulating the electro-deposition behavior of Fe metal anode and the applications in rechargeable aqueous iron-iodine batteries. Chemical Engineering Journal, 2022, 432, 134389.	6.6	12
48	The energy storage behavior of a phosphate-based cathode material in rechargeable zinc batteries. Chemical Communications, 2021, 57, 6253-6256.	2.2	10
49	Facilitating Mg2+ diffusion in high potential LixV2(PO4)3 cathode material with a co-insertion strategy for rechargeable Mg-ion batteries. Journal of Power Sources, 2022, 520, 230853.	4.0	10
50	3D Exfoliated Carbon Paper toward Highly Loaded Aqueous Energy Storage Applications. Energy Technology, 2019, 7, 1900892.	1.8	9
51	A High Potential Polyanion Cathode Material for Rechargeable Mgâ€ion Batteries. Small Methods, 2022, 6, .	4.6	9
52	Immobilization of phosphotungstate through doping in polypyrrole for supercapacitors. Dalton Transactions, 2019, 48, 6812-6816.	1.6	8
53	A high performance tungsten bronze electrode in a mixed electrolyte and applications in supercapacitors. Chemical Communications, 2019, 55, 14323-14326.	2.2	7
54	Interlayer Engineering of Layered Cathode Materials for Advanced Zn Storage. CheM, 2020, 6, 817-819.	5.8	7

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55	Inhibiting VOPO₄â‹…xâ€‰H₂O Decomposition and Dissolution in Rechargeable Aqueous Zinc Batteries to Promote Voltage and Capacity Stabilities. Angewandte Chemie, 2019, 131, 16203-16207.	1.6	6
56	Boosting the capacitive performance of hierarchical cobalt molybdate hybrid electrodes for asymmetric supercapacitors. Journal of Materials Science, 2021, 56, 10965-10978.	1.7	6
57	Accessing the 2ÂV VV/VIV redox process of vanadyl phosphate cathode for aqueous batteries. Journal of Power Sources, 2021, 507, 230270.	4.0	5
58	Characterization of 57 microsatellite loci for Rapana venosa using genomic next generation sequencing. Conservation Genetics Resources, 2014, 6, 941-945.	0.4	4
59	Stabilization of Lithium Transition Metal Silicates in the Olivine Structure. Inorganic Chemistry, 2017, 56, 9931-9937.	1.9	4
60	Highly sensitive novel fluorescent chiral probe possessing (S)-2-methylproline structures for the determination of chiral amino compounds by ultra-performance liquid chromatography with fluorescence: An application in the saliva of healthy volunteer. Journal of Chromatography A, 2022, 1661, 462672.	1.8	4
61	Heterostructured polypyrrole/hybrid iron oxide composite film as highly stable anode for pseudocapacitors. Journal of Power Sources, 2021, 513, 230550.	4.0	3
62	The back-deposition of dissolved Mn²⁺ to MnO₂ cathodes for stable cycling in aqueous zinc batteries. Chemical Communications, 2022, 58, 4845-4848.	2.2	3
63	Stabilization of VOPO₄Â·2H₂O voltage and capacity retention in aqueous zinc batteries with a hydrogen bond regulator. Chemical Communications, 2022, 58, 5905-5908.	2.2	3
64	Frontispiece: The Development of Vanadyl Phosphate Cathode Materials for Energy Storage Systems: A Review. Chemistry - A European Journal, 2020, 26, .	1.7	0