Jun Ming

List of Publications by Year
in descending order

106 papers	7,088 citations	41344 49 h-index	60623 81 g-index
109 all docs	109 docs citations	109 times ranked	7211 citing authors

#	Article	IF	Citations
1	Zinc-ion batteries: Materials, mechanisms, and applications. Materials Science and Engineering Reports, 2019, 135, 58-84.	31.8	604
2	Emerging Era of Electrolyte Solvation Structure and Interfacial Model in Batteries. ACS Energy Letters, 2022, 7, 490-513.	17.4	236
3	Metalâ€"Organic Framework-Based Separators for Enhancing Liâ€"S Battery Stability: Mechanism of Mitigating Polysulfide Diffusion. ACS Energy Letters, 2017, 2, 2362-2367.	17.4	229
4	Recognizing the Mechanism of Sulfurized Polyacrylonitrile Cathode Materials for Liâ€"S Batteries and beyond in Alâ€"S Batteries. ACS Energy Letters, 2018, 3, 2899-2907.	17.4	224
5	New Insights on Graphite Anode Stability in Rechargeable Batteries: Li Ion Coordination Structures Prevail over Solid Electrolyte Interphases. ACS Energy Letters, 2018, 3, 335-340.	17.4	217
6	Graphitic Nanocarbon with Engineered Defects for Highâ€Performance Potassiumâ€Ion Battery Anodes. Advanced Functional Materials, 2019, 29, 1903641.	14.9	212
7	Phenanthroline Covalent Organic Framework Electrodes for High-Performance Zinc-Ion Supercapattery. ACS Energy Letters, 2020, 5, 2256-2264.	17.4	175
8	Facile synthesis of a Co₃O₄â€"carbon nanotube composite and its superior performance as an anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 1141-1147.	10.3	169
9	New Insight on the Role of Electrolyte Additives in Rechargeable Lithium Ion Batteries. ACS Energy Letters, 2019, 4, 2613-2622.	17.4	160
10	Artificial Solid Electrolyte Interphase for Suppressing Surface Reactions and Cathode Dissolution in Aqueous Zinc Ion Batteries. ACS Energy Letters, 2019, 4, 2776-2781.	17.4	155
11	Electrolyte Solvation Structure Design for Sodium Ion Batteries. Advanced Science, 2022, 9, .	11.2	138
12	Electrolyte Engineering Enables High Stability and Capacity Alloying Anodes for Sodium and Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 766-776.	17.4	134
13	Recent advances in nanostructured carbon for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 1604-1630.	10.3	130
14	Deactivation of Ni/TiO2 catalyst in the hydrogenation of nitrobenzene in water and improvement in its stability by coating a layer of hydrophobic carbon. Journal of Catalysis, 2012, 291, 149-154.	6.2	122
15	Interfacial Model Deciphering Highâ€Voltage Electrolytes for High Energy Density, High Safety, and Fastâ€Charging Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2102964.	21.0	122
16	Molecular-Scale Interfacial Model for Predicting Electrode Performance in Rechargeable Batteries. ACS Energy Letters, 2019, 4, 1584-1593.	17.4	117
17	Toward the Sustainable Lithium Metal Batteries with a New Electrolyte Solvation Chemistry. Advanced Energy Materials, 2020, 10, 2000567.	19.5	111
18	An Exploration of New Energy Storage System: High Energy Density, High Safety, and Fast Charging Lithium Ion Battery. Advanced Functional Materials, 2019, 29, 1805978.	14.9	109

#	Article	IF	Citations
19	Lowâ€Temperature Electrolyte Design for Lithiumâ€Ion Batteries: Prospect and Challenges. Chemistry - A European Journal, 2021, 27, 15842-15865.	3.3	106
20	Lithiumâ€Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. Advanced Functional Materials, 2021, 31, 2101593.	14.9	100
21	Unraveling the New Role of an Ethylene Carbonate Solvation Shell in Rechargeable Metal Ion Batteries. ACS Energy Letters, 2021, 6, 69-78.	17.4	99
22	New Organic Complex for Lithium Layered Oxide Modification: Ultrathin Coating, High-Voltage, and Safety Performances. ACS Energy Letters, 2019, 4, 656-665.	17.4	97
23	An Empirical Model for the Design of Batteries with High Energy Density. ACS Energy Letters, 2020, 5, 807-816.	17.4	97
24	Electrolyteâ€Mediated Stabilization of Highâ€Capacity Microâ€Sized Antimony Anodes for Potassiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2005993.	21.0	96
25	Model-Based Design of Graphite-Compatible Electrolytes in Potassium-Ion Batteries. ACS Energy Letters, 2020, 5, 2651-2661.	17.4	88
26	Unique Co₃O₄/nitrogen-doped carbon nanospheres derived from metalâ€"organic framework: insight into their superior lithium storage capabilities and electrochemical features in high-voltage batteries. Journal of Materials Chemistry A, 2018, 6, 12466-12474.	10.3	85
27	Multilayer Approach for Advanced Hybrid Lithium Battery. ACS Nano, 2016, 10, 6037-6044.	14.6	83
28	Selective conversion of concentrated microcrystalline cellulose to isosorbide over Ru/C catalyst. Green Chemistry, 2011, 13, 839.	9.0	80
29	Scalable Approach To Construct Free-Standing and Flexible Carbon Networks for Lithiumâ€"Sulfur Battery. ACS Applied Materials & Interfaces, 2017, 9, 8047-8054.	8.0	78
30	Unraveling Metal Oxide Role in Exfoliating Graphite: New Strategy to Construct Highâ€Performance Grapheneâ€Modified SiO<i>_x</i>â€Based Anode for Lithiumâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1910657.	14.9	78
31	Engineering Sodium-Ion Solvation Structure to Stabilize Sodium Anodes: Universal Strategy for Fast-Charging and Safer Sodium-Ion Batteries. Nano Letters, 2020, 20, 3247-3254.	9.1	78
32	Additives Engineered Nonflammable Electrolyte for Safer Potassium Ion Batteries. Advanced Functional Materials, 2020, 30, 2001934.	14.9	77
33	Functional Two-Dimensional Coordination Polymeric Layer as a Charge Barrier in Liâ€"S Batteries. ACS Nano, 2018, 12, 836-843.	14.6	76
34	A sustainable iron-based sodium ion battery of porous carbonâ€"Fe₃O₄/Na₂FeP₂O₇ with high performance. RSC Advances, 2015, 5, 8793-8800.	3.6	74
35	Surfactant-Assisted Synthesis of Fe₂O₃Nanoparticles and F-Doped Carbon Modification toward an Improved Fe₃O₄@CF_{<i>x</i>}/LiNi_{0.5}Mn_{1.5}O₄Battery. ACS Applied Materials & Interfaces, 2014, 6, 15499-15509.	8.0	72
36	Model-Based Design of Stable Electrolytes for Potassium Ion Batteries. ACS Energy Letters, 2020, 5, 3124-3131.	17.4	71

#	Article	IF	Citations
37	Steaming multiwalled carbon nanotubes via acid vapour for controllable nanoengineering and the fabrication of carbon nanoflutes. Chemical Communications, 2011, 47, 5223.	4.1	70
38	The binder effect on an oxide-based anode in lithium and sodium-ion battery applications: the fastest way to ultrahigh performance. Chemical Communications, 2014, 50, 13307-13310.	4.1	69
39	Reviewâ€"Two-Dimensional Layered Materials for Energy Storage Applications. ECS Journal of Solid State Science and Technology, 2016, 5, Q3021-Q3025.	1.8	68
40	Phase Inversion Strategy to Flexible Freestanding Electrode: Critical Coupling of Binders and Electrolytes for High Performance Liâ€"S Battery. Advanced Functional Materials, 2018, 28, 1802244.	14.9	64
41	Electrolyte Issues in Lithiumâ€"Sulfur Batteries: Development, Prospect, and Challenges. Energy & Fuels, 2021, 35, 10405-10427.	5.1	64
42	Gradient V2O5 surface-coated LiMn2O4 cathode towards enhanced performance in Li-ion battery applications. Electrochimica Acta, 2014, 120, 390-397.	5.2	63
43	Fine control of titania deposition to prepare C@TiO2 composites and TiO2 hollow particles for photocatalysis and lithium-ion battery applications. Journal of Materials Chemistry, 2012, 22, 22135.	6.7	61
44	Sodium salt effect on hydrothermal carbonization of biomass: a catalyst for carbon-based nanostructured materials for lithium-ion battery applications. Green Chemistry, 2013, 15, 2722.	9.0	61
45	CO2-assisted template synthesis of porous hollow bi-phase Î3-/Î±-Fe2O3 nanoparticles with high sensor property. Journal of Materials Chemistry, 2011, 21, 17776.	6.7	58
46	CO2â€"expanded ethanol chemical synthesis of a Fe3O4@graphene composite and its good electrochemical properties as anode material for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 3954.	10.3	58
47	Encapsulation of Metal Oxide Nanocrystals into Porous Carbon with Ultrahigh Performances in Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2013, 5, 2133-2136.	8.0	55
48	An alluaudite Na2+2Fe2â^'(SO4)3(x= 0.2) derivative phase as insertion host for lithium battery. Electrochemistry Communications, 2015, 51, 19-22.	4.7	52
49	Redox Species-Based Electrolytes for Advanced Rechargeable Lithium Ion Batteries. ACS Energy Letters, 2016, 1, 529-534.	17.4	51
50	Understanding Ostwald Ripening and Surface Charging Effects in Solvothermallyâ€Prepared Metal Oxideâ€"Carbon Anodes for High Performance Rechargeable Batteries. Advanced Energy Materials, 2019, 9, 1902194.	19.5	50
51	Quasi-compensatory effect in emerging anode-free lithium batteries. EScience, 2021, 1, 3-12.	41.6	48
52	Lithiation of an Iron Oxideâ€Based Anode for Stable, Highâ€Capacity Lithiumâ€Ion Batteries of Porous Carbonâ€"Fe₃O₄/Li[Ni_{0.59}Co_{0.16}Mn_{0.25}]O₂ Energy Technology, 2014, 2, 778-785.	3.8	44
53	Constructing Dense SiO_{<i>x</i>}@Carbon Nanotubes versus Spinel Cathode for Advanced Highâ€Energy Lithiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 1165-1171.	3.4	44
54	Ceria-Induced Strategy To Tailor Pt Atomic Clusters on Cobaltâ€"Nickel Oxide and the Synergetic Effect for Superior Hydrogen Generation. ACS Sustainable Chemistry and Engineering, 2018, 6, 7451-7457.	6.7	44

#	Article	IF	Citations
55	Catalysis of silica-based anode (de-)lithiation: compositional design within a hollow structure for accelerated conversion reaction kinetics. Journal of Materials Chemistry A, 2020, 8, 12306-12313.	10.3	43
56	Simultaneous surface coating and chemical activation of the Li-rich solid solution lithium rechargeable cathode and its improved performance. Electrochimica Acta, 2013, 113, 54-62.	5.2	42
57	Hierarchical Li4Ti5O12 particles co-modified with C&N towards enhanced performance in lithium-ion battery applications. Electrochimica Acta, 2014, 116, 224-229.	5.2	42
58	Electrochemical activation, voltage decay and hysteresis of Li-rich layered cathode probed by various cobalt content. Electrochimica Acta, 2018, 265, 115-120.	5.2	41
59	Long-Lasting Solid Electrolyte Interphase for Stable Li-Metal Batteries. ACS Energy Letters, 2021, 6, 2153-2161.	17.4	41
60	Assembling metal oxide nanocrystals into dense, hollow, porous nanoparticles for lithium-ion and lithiumâ€“oxygen battery application. Nanoscale, 2013, 5, 10390.	5.6	40
61	Sustainable solid-state strategy to hierarchical core-shell structured Fe3O4@graphene towards a safer and green sodium ion full battery. Electrochimica Acta, 2018, 260, 882-889.	5.2	40
62	Rhombohedral NASICON-type Na_xFe₂(SO₄)₃ for sodium ion batteries: comparison with phosphate and alluaudite phases. Journal of Materials Chemistry A, 2018, 6, 3919-3925.	10.3	38
63	A Robust Li-Intercalated Interlayer with Strong Electron Withdrawing Ability Enables Durable and High-Rate Li Metal Anode. ACS Energy Letters, 2022, 7, 1594-1603.	17.4	36
64	Porous TiO₂ nanoribbons and TiO₂ nanoribbon/carbon dot composites for enhanced Li-ion storage. RSC Advances, 2014, 4, 12971-12976.	3.6	35
65	Green Strategy to Single Crystalline Anatase TiO₂ Nanosheets with Dominant (001) Facets and Its Lithiation Study toward Sustainable Cobalt-Free Lithium Ion Full Battery. ACS Sustainable Chemistry and Engineering, 2015, 3, 3086-3095.	6.7	34
66	Alkaline Excess Strategy to NASICON-Type Compounds towards Higher-Capacity Battery Electrodes. Journal of the Electrochemical Society, 2016, 163, A1469-A1473.	2.9	34
67	Metal Catalyst to Construct Carbon Nanotubes Networks on Metal Oxide Microparticles towards Designing Highâ€Performance Electrode for Highâ€Voltage Lithiumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2009122.	14.9	34
68	High alkaline ion storage capacity of hollow interwoven structured Sb/TiO₂ particles: the galvanic replacement formation mechanism and volumetric buffer effect. Chemical Communications, 2018, 54, 4049-4052.	4.1	33
69	Reaction of hydrous inorganic metal salts in CO2 expanded ethanol: Fabrication of nanostructured materials via supercritical technology. Journal of Supercritical Fluids, 2011, 57, 137-142.	3.2	32
70	Fluorine-doped porous carbon-decorated Fe3O4-FeF2 composite versus LiNi0.5Mn1.5O4 towards a full battery with robust capability. Electrochimica Acta, 2015, 169, 291-299.	5.2	32
71	Selective hydrogenation of citral catalyzed with palladium nanoparticles in CO2-in-water emulsion. Green Chemistry, 2009, 11, 979.	9.0	28
72	Multiscale Understanding of Covalently Fixed Sulfurâ€“Polyacrylonitrile Composite as Advanced Cathode for Metalâ€“Sulfur Batteries. Advanced Science, 2021, 8, e2101123.	11.2	27

#	Article	IF	Citations
73	Selective hydrogenation of unsaturated aldehydes in a poly(ethylene glycol)/compressed carbon dioxide biphasic system. Green Chemistry, 2008, 10, 1082.	9.0	26
74	Knitting an oxygenated network-coat on carbon nanotubes from biomass and their applications in catalysis. Journal of Materials Chemistry, 2011, 21, 10929.	6.7	26
75	A new strategy for finely controlling the metal (oxide) coating on colloidal particles with tunable catalytic properties. Journal of Materials Chemistry, 2011, 21, 6654.	6.7	26
76	Lithium dendrite-free plating/stripping: a new synergistic lithium ion solvation structure effect for reliable lithiumâ€"sulfur full batteries. Chemical Communications, 2019, 55, 5713-5716.	4.1	24
77	Bio-inspired heteroatom-doped hollow aurilave-like structured carbon for high-performance sodium-ion batteries and supercapacitors. Journal of Power Sources, 2020, 461, 228128.	7.8	24
78	Switching Electrolyte Interfacial Model to Engineer Solid Electrolyte Interface for Fast Charging and Wideâ€Temperature Lithiumâ€Ion Batteries. Advanced Science, 2022, 9, .	11.2	24
79	High-performance graphene/sulphur electrodes for flexible Li-ion batteries using the low-temperature spraying method. Nanoscale, 2015, 7, 8093-8100.	5.6	23
80	Synthesis of N-doped carbon coated metal oxide nanoparticles for enhanced Li-ion storage ability. RSC Advances, 2013, 3, 15613.	3.6	22
81	High dispersion of TiO₂nanocrystals within porous carbon improves lithium storage capacity and can be applied batteries to LiNi_{0.5}Mn_{1.5}O₄. Journal of Materials Chemistry A, 2014, 2, 18938-18945.	10.3	22
82	A Designed Durable Electrolyte for Highâ€Voltage Lithiumâ€Ion Batteries and Mechanism Analysis. Chemistry - A European Journal, 2020, 26, 7930-7936.	3.3	22
83	Advanced and safer lithium-ion battery based on sustainable electrodes. Journal of Power Sources, 2018, 379, 53-59.	7.8	21
84	Bioinspired Architectures and Heteroatom Doping To Construct Metalâ€Oxideâ€Based Anode for Highâ€Performance Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2018, 24, 16902-16909.	3.3	20
85	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Coreâ€"Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 20752-20761.	8.0	20
86	Electrochemical fabrication of Cu(OH)2 and CuO nanostructures and their catalytic property. Journal of Crystal Growth, 2011, 327, 251-257.	1.5	19
87	Electrolyte Chemistry in 3D Metal Oxide Nanorod Arrays Deciphers Lithium Dendrite-Free Plating/Stripping Behaviors for High-Performance Lithium Batteries. Journal of Physical Chemistry Letters, 2021, 12, 4857-4866.	4.6	19
88	Bio-inspired self-breathable structure driven by the volumetric effect: an unusual driving force of metal sulfide for high alkaline ion storage capability. Journal of Materials Chemistry A, 2019, 7, 5677-5684.	10.3	17
89	High Tap Density Li₄Ti₅O₁₂ Microspheres: Synthetic Conditions and Advanced Electrochemical Performance. Energy Technology, 2017, 5, 1680-1686.	3.8	16
90	Advanced Metal Oxide@Carbon Nanotubes for Highâ€Energy Lithiumâ€Ion Full Batteries. Energy Technology, 2018, 6, 766-772.	3.8	16

#	Article	IF	Citations
91	Metalâ€“Organic Coordination Strategy for Obtaining Metalâ€Decorated Moâ€Based Complexes: Multiâ€dimensional Structural Evolution and Highâ€Rate Lithiumâ€Ion Battery Applications. Chemistry - A European Journal, 2019, 25, 8813-8819.	3.3	16
92	Self-catalytic approach to construct graphitized carbon shell for metal oxide: In-situ triggering mechanism and high-performance lithium-ion batteries applications. Journal of Power Sources, 2020, 450, 227631.	7.8	14
93	Carbon Nanotubes Coupled with Metal Ion Diffusion Layers Stabilize Oxide Conversion Reactions in High-Voltage Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 16276-16285.	8.0	14
94	Unraveling the New Role of Metalâ€“Organic Frameworks in Designing Silicon Hollow Nanocages for High-Energy Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 40471-40480.	8.0	13
95	High surface area, mesoporous carbon for low-polarization, catalyst-free lithium oxygen battery. Solid State Ionics, 2015, 278, 133-137.	2.7	12
96	Coating of Al2O3 on layered Li(Mn1/3Ni1/3Co1/3)O2 using CO2 as green precipitant and their improved electrochemical performance for lithium ion batteries. Journal of Energy Chemistry, 2013, 22, 468-476.	12.9	10
97	A Physical Pulverization Strategy for Preparing a Highly Active Composite of CoO_{<i>x</i>} and Crushed Graphite for Lithiumâ€“Oxygen Batteries. ChemPhysChem, 2014, 15, 2070-2076.	2.1	10
98	Fabrication of Co(OH)2 coated Pt nanoparticles as an efficient catalyst for chemoselective hydrogenation of halonitrobenzenes. Journal of Colloid and Interface Science, 2012, 377, 322-327.	9.4	8
99	Crystal reconstruction of binary oxide hexagonal nanoplates: monocrystalline formation mechanism and high rate lithium-ion battery applications. Nanoscale, 2020, 12, 4366-4373.	5.6	8
100	Micromagnetic Configuration of Variable Nanostructured Cobalt Ferrite: Modulating and Simulations toward Memory Devices. ACS Applied Materials & Interfaces, 2019, 11, 28442-28448.	8.0	6
101	Aqueous binder effects of poly(acrylic acid) and carboxy methylated cellulose on anode performance in lithium-ion batteries. New Journal of Chemistry, 2019, 43, 12555-12562.	2.8	5
102	The magnetization reversal mechanism in electrospun tubular nickel ferrite: a chain-of-rings model for symmetric fanning. Nanoscale, 2019, 11, 13824-13831.	5.6	4
103	Frontispiece: Lowâ€Temperature Electrolyte Design for Lithiumâ€Ion Batteries: Prospect and Challenges. Chemistry - A European Journal, 2021, 27, .	3.3	2
104	Luminescent Thin Films Enabled by CsPbX₃ (X=Cl, Br, I) Precursor Solution. Chemistry - A European Journal, 2022, 28, .	3.3	2
105	Application of nanotechnology in multivalent ion-based batteries. Frontiers of Nanoscience, 2021, , 229-272.	0.6	1
106	(Invited) SEI or Solvation Structure: What Determines Electrode Stability in Rechargeable Batteries?. ECS Meeting Abstracts, 2020, MA2020-02, 668-668.	0.0	0