Li-Qiang Mai

List of Publications by Year
in descending order

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610	61,923	464	1668
papers	citations	130 h-index	214 g-index

617	617	617	34074
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	<scp>ZIF</scp>â€Mediated Anchoring of Co species on Nâ€doped CarbonÂNanorods as an Efficient Cathode Catalyst for Znâ€Air Batteries. Energy and Environmental Materials, 2023, 6, .	7.3	12
2	Interfacial and Vacancies Engineering of Copper Nickel Sulfide for Enhanced Oxygen Reduction and Alcohols Oxidation Activity. Energy and Environmental Materials, 2023, 6, .	7.3	8
3	<scp>Singleâ€Atom</scp> Lithiophilic Sites Confined within Ordered Porous Carbon for <scp>Ultrastable</scp> Lithium Metal Anodes. Energy and Environmental Materials, 2023, 6, .	7.3	5
4	Ultrathin Metal Silicate Hydroxide Nanosheets with Moderate Metalâ€“Oxygen Covalency Enables Efficient Oxygen Evolution. Energy and Environmental Materials, 2022, 5, 231-237.	7.3	28
5	Activating Inert Sites in Cobalt Silicate Hydroxides for Oxygen Evolution through Atomically Doping. Energy and Environmental Materials, 2022, 5, 655-661.	7.3	21
6	In-situ selective surface engineering of graphene micro-supercapacitor chips. Nano Research, 2022, 15, 1492-1499.	5.8	19
7	Dynamic Restructuring of Coordinatively Unsaturated Copper Paddle Wheel Clusters to Boost Electrochemical CO₂ Reduction to Hydrocarbons**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	61
8	Fast Ionic Storage in Aqueous Rechargeable Batteries: From Fundamentals to Applications. Advanced Materials, 2022, 34, e2105611.	11.1	62
9	Regulating the Interlayer Spacings of Hard Carbon Nanofibers Enables Enhanced Pore Filling Sodium Storage. Small, 2022, 18, e2105303.	5.2	51
10	A high-capacity polyaniline-intercalated layered vanadium oxide for aqueous ammonium-ion batteries. Chemical Communications, 2022, 58, 791-794.	2.2	28
11	Electronic Structure Modulation in MoO₂/MoP Heterostructure to Induce Fast Electronic/Ionic Diffusion Kinetics for Lithium Storage. Advanced Science, 2022, 9, e2104504.	5.6	58
12	Voltage plateau variation in a bismuth-potassium battery. Journal of Materials Chemistry A, 2022, 10, 2917-2923.	5.2	6
13	A Strainâ€Relaxation Red Phosphorus Freestanding Anode for Nonâ€Aqueous Potassium Ion Batteries. Advanced Energy Materials, 2022, 12, .	10.2	40
14	Anchoring Subâ€Nanometer Pt Clusters on Crumpled Paperâ€Like MXene Enables High Hydrogen Evolution Mass Activity. Advanced Functional Materials, 2022, 32, .	7.8	86
15	Lowâ€strain TiP₂O₇ with threeâ€dimensional ion channels as longâ€life and highâ€rate anode material for Mgâ€ion batteries. , 2022, 1, 140-147.		90
16	Highâ€Energy Aqueous Ammoniumâ€Ion Hybrid Supercapacitors. Advanced Materials, 2022, 34, e2107992.	11.1	73
17	Nanoâ€Sized Niobium Tungsten Oxide Anode for Advanced Fastâ€Charge Lithiumâ€Ion Batteries. Small, 2022, 18, e2107365.	5.2	26
18	New Insights into Phaseâ€Mechanism Relationship of Mg_xMnO₂ Nanowires in Aqueous Zincâ€Ion Batteries. Small, 2022, 18, e2107743.	5.2	16

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19	Anchoring ultra-small Mo₂C nanocrystals on honeycomb-structured N-doped carbon spheres for efficient hydrogen evolution. Chemical Communications, 2022, 58, 5269-5272.	2.2	9
20	Biomimetic brain-like nanostructures for solid polymer electrolytes with fast ion transport. Science China Materials, 2022, 65, 1476-1484.	3.5	18
21	CaV₆O₁₆Â·2.8H₂O with Ca²⁺ Pillar and Water Lubrication as a Highâ€Rate and Longâ€Life Cathode Material for Caâ€Ion Batteries. Advanced Functional Materials, 2022, 32, .	7.8	28
22	Flexible three-dimensional-networked iron vanadate nanosheet arrays/carbon cloths as high-performance cathodes for magnesium ion batteries. Science China Materials, 2022, 65, 2197-2206.	3.5	13
23	Ligand Modulation of Active Sites to Promote Electrocatalytic Oxygen Evolution. Advanced Materials, 2022, 34, e2200270.	11.1	108
24	Gradient trilayer solid-state electrolyte with excellent interface compatibility for high-voltage lithium batteries. Chemical Engineering Journal, 2022, 441, 136077.	6.6	22
25	Sodium vanadium oxides: From nanostructured design to high-performance energy storage materials. Journal of Materials Science and Technology, 2022, 121, 80-92.	5.6	7
26	Eutectic Electrolytes in Advanced Metal-Ion Batteries. ACS Energy Letters, 2022, 7, 247-260.	8.8	61
27	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
28	Zwitterionic Bifunctional Layer for Reversible Zn Anode. ACS Energy Letters, 2022, 7, 1719-1727.	8.8	81
29	Amine-Wetting-Enabled Dendrite-Free Potassium Metal Anode. ACS Nano, 2022, 16, 7291-7300.	7.3	36
30	Largeâ€Scale Integration of a Zinc Metasilicate Interface Layer Guiding Wellâ€Regulated Zn Deposition. Advanced Materials, 2022, 34, e2202188.	11.1	86
31	Efficient and stable noble-metal-free catalyst for acidic water oxidation. Nature Communications, 2022, 13, 2294.	5.8	89
32	Hierarchically Selfâ€Assembled MOF Network Enables Continuous Ion Transport and High Mechanical Strength. Advanced Energy Materials, 2022, 12, .	10.2	50
33	The continuous efficient conversion and directional deposition of lithium (poly)sulfides enabled by bimetallic site regulation. Nano Energy, 2022, 98, 107332.	8.2	50
34	Submerged-Plant-Inspired Five-Level-Synergetic hierarchical Single-Fe-Atom-Doped Micro-Electrodes for High-Performance multifunctional electrocatalysis. Chemical Engineering Journal, 2022, 446, 136804.	6.6	3
35	Mo₂C Nanoparticles Embedded in Carbon Nanowires with Surface Pseudocapacitance Enables Highâ€Energy and Highâ€Power Sodium Ion Capacitors. Small, 2022, 18, e2200805.	5.2	20
36	Eutectic Electrolyte with Unique Solvation Structure for Highâ€Performance Zincâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	108

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37	Eutectic Electrolyte with Unique Solvation Structure for Highâ€Performance Zincâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	1.6	16
38	Polydopamine-assisted in-situ formation of dense MOF layer on polyolefin separator for synergistic enhancement of lithium-sulfur battery. Nano Research, 2022, 15, 8048-8055.	5.8	24
39	Advances and perspectives on one-dimensional nanostructure electrode materials for potassium-ion batteries. Materials Today, 2022, 56, 114-134.	8.3	26
40	Quadrupling the stored charge by extending the accessible density of states. CheM, 2022, 8, 2410-2418.	5.8	4
41	Ultrathin ZrO2 coating layer regulates Zn deposition and raises long-life performance of aqueous Zn batteries. Materials Today Energy, 2022, 28, 101056.	2.5	35
42	Towards a Stable Layered Vanadium Oxide Cathode for Highâ€Capacity Calcium Batteries. Small, 2022, 18, .	5.2	7
43	Chemical cross-linking and mechanically reinforced carbon network constructed by graphene boosts potassium ion storage. Nano Research, 2022, 15, 9019-9025.	5.8	9
44	K⁺ Induced Phase Transformation of Layered Titanium Disulfide Boosts Ultrafast Potassiumâ€Ion Storage. Advanced Functional Materials, 2022, 32, .	7.8	6
45	Universal multifunctional hydrogen bond network construction strategy for enhanced aqueous Zn2+/proton hybrid batteries. Nano Energy, 2022, 100, 107539.	8.2	33
46	Carbon decorated Li3V2(PO4)3 for high-rate lithium-ion batteries: Electrochemical performance and charge compensation mechanism. Journal of Energy Chemistry, 2021, 53, 124-131.	7.1	23
47	Materials Design for Highâ€Safety Sodiumâ€Ion Battery. Advanced Energy Materials, 2021, 11, 2000974.	10.2	282
48	Niobium oxyphosphate nanosheet assembled two-dimensional anode material for enhanced lithium storage. Journal of Energy Chemistry, 2021, 53, 268-275.	7.1	14
49	In-situ surface self-reconstruction in ternary transition metal dichalcogenide nanorod arrays enables efficient electrocatalytic oxygen evolution. Journal of Energy Chemistry, 2021, 55, 10-16.	7.1	28
50	Surface pseudocapacitance of mesoporous Mo3N2 nanowire anode toward reversible high-rate sodium-ion storage. Journal of Energy Chemistry, 2021, 55, 295-303.	7.1	31
51	Insight into pre-sodiation in Na3V2(PO4)2F3/C @ hard carbon full cells for promoting the development of sodium-ion battery. Chemical Engineering Journal, 2021, 413, 127565.	6.6	38
52	Threeâ€Layer Structured SnO₂@C@TiO₂ Hollow Spheres for Highâ€Performance Sodium Storage. Energy and Environmental Materials, 2021, 4, 428-433.	7.3	12
53	Scalable fabrication and active site identification of MOF shell-derived nitrogen-doped carbon hollow frameworks for oxygen reduction. Journal of Materials Science and Technology, 2021, 66, 186-192.	5.6	23
54	Sulfide synergistic electrochemical activity for high-performance alkaline rechargeable microbatteries. Journal of Materials Science, 2021, 56, 629-639.	1.7	4

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55	Insights into the storage mechanism of VS4 nanowire clusters in aluminum-ion battery. Nano Energy, 2021, 79, 105384.	8.2	64
56	Ni/Fe based bimetallic coordination complexes with rich active sites for efficient oxygen evolution reaction. Chemical Engineering Journal, 2021, 405, 126959.	6.6	38
57	On the irreversible sodiation of tin disulfide. Nano Energy, 2021, 79, 105458.	8.2	14
58	Revealing the Origin of Highly Efficient Polysulfide Anchoring and Transformation on Anionâ€Substituted Vanadium Nitride Host. Advanced Functional Materials, 2021, 31, 2008034.	7.8	39
59	Electrochemically Exfoliating MoS₂ into Atomically Thin Planarâ€Stacking Through a Selective Lateral Reaction Pathway. Advanced Functional Materials, 2021, 31, 2007840.	7.8	23
60	Interwoven scaffolded porous titanium oxide nanocubes/carbon nanotubes framework for high-performance sodium-ion battery. Journal of Energy Chemistry, 2021, 59, 38-46.	7.1	25
61	Structural properties and electrochemical performance of different polymorphs of Nb2O5 in magnesium-based batteries. Journal of Energy Chemistry, 2021, 58, 586-592.	7.1	13
62	Phenylenediamine-formaldehyde chemistry derived N-doped hollow carbon spheres for high-energy-density supercapacitors. Chinese Chemical Letters, 2021, 32, 184-189.	4.8	22
63	Recent Progress and Challenges in the Optimization of Electrode Materials for Rechargeable Magnesium Batteries. Small, 2021, 17, e2004108.	5.2	62
64	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
65	Electron cloud migration effect-induced lithiophobicity/lithiophilicity transformation for dendrite-free lithium metal anodes. Nanoscale, 2021, 13, 3027-3035.	2.8	8
66	Surface Oxidation Layer-Mediated Conformal Carbon Coating on Si Nanoparticles for Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2021, 13, 3991-3998.	4.0	51
67	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
68	Generating H⁺ in Catholyte and OH^{â€“} in Anolyte: An Approach to Improve the Stability of Aqueous Zinc-Ion Batteries. ACS Energy Letters, 2021, 6, 684-686.	8.8	49
69	Highly Crystallized Prussian Blue with Enhanced Kinetics for Highly Efficient Sodium Storage. ACS Applied Materials & Interfaces, 2021, 13, 3999-4007.	4.0	98
70	CNTs/LiV3O8/Y2O3 Composites with Enhanced Electrochemical Performances as Cathode Materials for Rechargeable Solid-State Lithium Metal Batteries. ACS Applied Materials & Interfaces, 2021, 13, 8219-8228.	4.0	1
71	Microporeâ€Rich Yolkâ€Shell Nâ€doped Carbon Spheres: An Ideal Electrode Material for Highâ€Energy Capacitive Energy Storage. ChemSusChem, 2021, 14, 1756-1762.	3.6	18
72	Flexible Nanowire Cathode Membrane with Gradient Interfaces and Rapid Electron/Ion Transport Channels for Solidâ€State Lithium Batteries. Advanced Energy Materials, 2021, 11, 2100026.	10.2	39

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73	A Stable CaV₄O₉ÂAnode Promises Nearâ€Zero Volume Change and Highâ€Capacity Lithium Storage. Advanced Energy Materials, 2021, 11, 2003612.	10.2	16
74	Open-Structured Nanotubes with Three-Dimensional Ion-Accessible Pathways for Enhanced Li⁺ Conductivity in Composite Solid Electrolytes. ACS Applied Materials & Interfaces, 2021, 13, 13183-13190.	4.0	28
75	Regulating Latticeâ€Waterâ€Adsorbed Ions to Optimize Intercalation Potential in 3D Prussian Blue Based Multiâ€Ion Microbattery. Small, 2021, 17, e2007791.	5.2	12
76	Hollow SiO_x/C Microspheres with Semigraphitic Carbon Coating as the â€œLithium Hostâ€•for Dendrite-Free Lithium Metal Anodes. ACS Applied Energy Materials, 2021, 4, 3905-3912.	2.5	20
77	Constructing Three-Dimensional Macroporous TiO₂ Microspheres with Enhanced Pseudocapacitive Lithium Storage under Deep Discharging/Charging Conditions. ACS Applied Materials & Interfaces, 2021, 13, 16528-16535.	4.0	7
78	Metal-organic frameworks enable broad strategies for lithium-sulfur batteries. National Science Review, 2021, 8, nwab055.	4.6	58
79	Achieving better aqueous rechargeable zinc ion batteries with heterostructure electrodes. Nano Research, 2021, 14, 3174-3187.	5.8	40
80	Pancake-Like MOF Solid-State Electrolytes with Fast Ion Migration for High-Performance Sodium Battery. Nano-Micro Letters, 2021, 13, 105.	14.4	33
81	Batteries & Supercaps: Beyond Lithiumâ€Ion Batteries. Batteries and Supercaps, 2021, 4, 1036-1038.	2.4	12
82	3D-printed interdigital electrodes for electrochemical energy storage devices. Journal of Materials Research, 2021, 36, 4489-4507.	1.2	11
83	Quicker and More Zn²⁺ Storage Predominantly from the Interface. Advanced Materials, 2021, 33, e2100359.	11.1	111
84	Ligand and Anion Coâ€Leaching Induced Complete Reconstruction of Polyoxomolybdateâ€Organic Complex Oxygenâ€Evolving Preâ€Catalysts. Advanced Functional Materials, 2021, 31, 2101792.	7.8	35
85	Crystal defect modulation in cathode materials for non-lithium ion batteries: Progress and challenges. Materials Today, 2021, 45, 169-190.	8.3	53
86	Unveiling the role of surface Pâ€“O group in P-doped Co3O4 for electrocatalytic oxygen evolution by On-chip micro-device. Nano Energy, 2021, 83, 105748.	8.2	46
87	Active Site Identification and Interfacial Design of a MoP/N-Doped Carbon Catalyst for Efficient Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 5486-5492.	2.5	13
88	Rationally design lithiophilic surfaces toward highâ˜energy Lithium metal battery. Energy Storage Materials, 2021, 37, 40-46.	9.5	41
89	Comprehensive Understandings into Complete Reconstruction of Precatalysts: Synthesis, Applications, and Characterizations. Advanced Materials, 2021, 33, e2007344.	11.1	198
90	Solvent-Free Encapsulation of Ultrafine SnO₂ Nanoparticles in N-Doped Carbon for High-Capacity and Durable Lithium Storage. ACS Applied Energy Materials, 2021, 4, 6277-6283.	2.5	10

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91	Coreâ€“Shell MOFâ€inâ€MOF Nanopore Bifunctional Host of Electrolyte for Highâ€Performance Solidâ€State Lithium Batteries. Small Methods, 2021, 5, e2100508.	4.6	43
92	Comprehensive Insights into Electrolytes and Solid Electrolyte Interfaces in Potassium-Ion Batteries. Energy Storage Materials, 2021, 38, 30-49.	9.5	72
93	Advances in Understanding the Electrocatalytic Reconstruction Chemistry of Coordination Compounds. Small, 2021, 17, e2100629.	5.2	10
94	Waterâ€Soluble Crossâ€Linking Functional Binder for Lowâ€Cost and Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2104858.	7.8	50
95	MOF derived TiO2 with reversible magnesium pseudocapacitance for ultralong-life Mg metal batteries. Chemical Engineering Journal, 2021, 418, 128491.	6.6	28
96	Highly Dispersed Mo₂C Nanodots in Carbon Nanocages Derived from Moâ€Based Xerogel: Efficient Electrocatalysts for Hydrogen Evolution. Small Methods, 2021, 5, e2100334.	4.6	26
97	A Durable Niâ€“Zn Microbattery with Ultrahighâ€Rate Capability Enabled by In Situ Reconstructed Nanoporous Nickel with Epitaxial Phase. Small, 2021, 17, e2103136.	5.2	11
98	Hierarchical N-doped carbon spheres anchored with cobalt nanocrystals and single atoms for oxygen reduction reaction. Nano Energy, 2021, 87, 106153.	8.2	76
99	Gradient sulfur fixing separator with catalytic ability for stable lithium sulfur battery. Chemical Engineering Journal, 2021, 422, 130107.	6.6	36
100	Rechargeable metal (Li, Na, Mg, Al)-sulfur batteries: Materials and advances. Journal of Energy Chemistry, 2021, 61, 104-134.	7.1	80
101	Catalytic redox mediators for non-aqueous Li-O2 battery. Energy Storage Materials, 2021, 43, 97-119.	9.5	24
102	3D nonlinear photolithography of Tin oxide ceramics via femtosecond laser. Science China Materials, 2021, 64, 1477-1484.	3.5	9
103	High-Energy and High-Power Pseudocapacitorâ€“Battery Hybrid Sodium-Ion Capacitor with Na+ Intercalation Pseudocapacitance Anode. Nano-Micro Letters, 2021, 13, 55.	14.4	58
104	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials. Small, 2021, 17, e2104649.	5.2	9
105	Femtosecond laser induced in-situ crystallization of Tb-based luminescent metal organic framework. Optics Express, 2021, 29, 39304.	1.7	1
106	Spiral self-assembly of lamellar micelles into multi-shelled hollow nanospheres with unique chiral architecture. Science Advances, 2021, 7, eabi7403.	4.7	54
107	Coordination engineering of metal single atom on carbon for enhanced and robust potassium storage. Matter, 2021, 4, 4006-4021.	5.0	50
108	Liquid Phaseâ€Induced Solid Solution Phase Mechanisms for Highly Stable and Ultrafast Energy Storage. Advanced Energy Materials, 2021, 11, 2102342.	10.2	6

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109	Subâ€Nanometer Confined Ions and Solvent Molecules Intercalation Capacitance in Microslits of 2D Materials (Small 49/2021). Small, 2021, 17, .	5.2	1
110	Ultrathin Cobalt Phthalocyanine@Graphene Oxide Layer-Modified Separator for Stable Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 60046-60053.	4.0	15
111	Three dimensional porous frameworks for lithium dendrite suppression. Journal of Energy Chemistry, 2020, 44, 73-89.	7.1	104
112	Activated carbon clothes for wide-voltage high-energy-density aqueous symmetric supercapacitors. Chinese Chemical Letters, 2020, 31, 1620-1624.	4.8	31
113	Compact Sn/SnO2 microspheres with gradient composition for high volumetric lithium storage. Energy Storage Materials, 2020, 25, 376-381.	9.5	27
114	Integration of VS2 nanosheets into carbon for high energy density micro-supercapacitor. Journal of Alloys and Compounds, 2020, 823, 151769.	2.8	32
115	Universal construction of ultrafine metal oxides coupled in N-enriched 3D carbon nanofibers for high-performance lithium/sodium storage. Nano Energy, 2020, 67, 104222.	8.2	51
116	Vanadiumâ€Based Nanomaterials: A Promising Family for Emerging Metalâ€Ion Batteries. Advanced Functional Materials, 2020, 30, 1904398.	7.8	262
117	Mg Doped Liâ€“LiB Alloy with In Situ Formed Lithiophilic LiB Skeleton for Lithium Metal Batteries. Advanced Science, 2020, 7, 1902643.	5.6	106
118	Interface enhanced well-dispersed Co9S8 nanocrystals as an efficient polysulfide host in lithiumâ€“sulfur batteries. Journal of Energy Chemistry, 2020, 48, 109-115.	7.1	59
119	3D Nitrogenâ€Doped Graphene Encapsulated Metallic Nickelâ€“Iron Alloy Nanoparticles for Efficient Bifunctional Oxygen Electrocatalysis. Chemistry - A European Journal, 2020, 26, 4044-4051.	1.7	25
120	Advanced Li-Se S battery system: Electrodes and electrolytes. Journal of Materials Science and Technology, 2020, 55, 1-15.	5.6	28
121	Interwoven Nanowire Based Onâ€Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. Advanced Energy Materials, 2020, 10, 2001873.	10.2	40
122	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. ACS Central Science, 2020, 6, 1901-1915.	5.3	53
123	Coâ€Construction of Sulfur Vacancies and Heterojunctions in Tungsten Disulfide to Induce Fast Electronic/Ionic Diffusion Kinetics for Sodiumâ€Ion Batteries. Advanced Materials, 2020, 32, e2005802.	11.1	244
124	Introducing Na2SO4 in aqueous ZnSO4 electrolyte realizes superior electrochemical performance in zinc-ion hybrid capacitor. Materials Today Energy, 2020, 18, 100529.	2.5	32
125	Phenazine anodes for ultralongcycle-life aqueous rechargeable batteries. Journal of Materials Chemistry A, 2020, 8, 26013-26022.	5.2	21
126	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

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127	Unveiling the microscopic origin of asymmetric phase transformations in (de)sodiated Sb2Se3 with in situ transmission electron microscopy. Nano Energy, 2020, 77, 105299.	8.2	20
128	K⁺ modulated K⁺/vacancy disordered layered oxide for high-rate and high-capacity potassium-ion batteries. Energy and Environmental Science, 2020, 13, 3129-3137.	15.6	92
129	Introduce Tortuosity to Retain Polysulfides and Suppress Li Dendrites. Matter, 2020, 2, 1363-1365.	5.0	3
130	Dual carbon decorated Na3MnTi(PO4)3: A high-energy-density cathode material for sodium-ion batteries. Nano Energy, 2020, 70, 104548.	8.2	92
131	Operando Observation of Structural Evolution and Kinetics of Li[Ni0.6Co0.2Mn0.2]O2 at Elevated Temperature. Chemical Research in Chinese Universities, 2020, 36, 690-693.	1.3	3
132	Origin of the extra capacity in nitrogen-doped porous carbon nanofibers for high-performance potassium ion batteries. Journal of Materials Chemistry A, 2020, 8, 18079-18086.	5.2	40
133	Confining Ultrafine MoO₂ in a Carbon Matrix Enables Hybrid Li Ion and Li Metal Storage. ACS Applied Materials & Interfaces, 2020, 12, 40648-40654.	4.0	40
134	Reconstructionâ€Determined Alkaline Water Electrolysis at Industrial Temperatures. Advanced Materials, 2020, 32, e2001136.	11.1	177
135	Methanol-derived high-performance Na₃V₂(PO₄)₃/C: from kilogram-scale synthesis to pouch cell safety detection. Nanoscale, 2020, 12, 21165-21171.	2.8	10
136	Heterostructure Design in Bimetallic Phthalocyanine Boosts Oxygen Reduction Reaction Activity and Durability. Advanced Functional Materials, 2020, 30, 2005000.	7.8	78
137	Complete Reconstruction of Hydrate Pre-Catalysts for Ultrastable Water Electrolysis in Industrial-Concentration Alkali Media. Cell Reports Physical Science, 2020, 1, 100241.	2.8	117
138	Fast and stable Mg2+ intercalation in a high voltage NaV2O2(PO4)2F/rGO cathode material for magnesium-ion batteries. Science China Materials, 2020, 63, 1651-1662.	3.5	36
139	Bilayered microelectrodes based on electrochemically deposited MnO₂/polypyrrole towards fast charge transport kinetics for micro-supercapacitors. RSC Advances, 2020, 10, 18245-18251.	1.7	10
140	A three-dimensional nitrogen-doped graphene framework decorated with an atomic layer deposited ultrathin V₂O₅ layer for lithium sulfur batteries with high sulfur loading. Journal of Materials Chemistry A, 2020, 8, 12106-12113.	5.2	28
141	In situ structural evolution of the multi-site alloy electrocatalyst to manipulate the intermediate for enhanced water oxidation reaction. Energy and Environmental Science, 2020, 13, 2200-2208.	15.6	101
142	A fast ionic conductor and stretchable solid electrolyte artificial interphase layer for Li metal protection in lithium batteries. Journal of Alloys and Compounds, 2020, 843, 155839.	2.8	15
143	Cobalt-doping in hierarchical Ni₃S₂ nanorod arrays enables high areal capacitance. Journal of Materials Chemistry A, 2020, 8, 13114-13120.	5.2	49
144	Enveloping SiO_x in N-doped carbon for durable lithium storage via an eco-friendly solvent-free approach. Journal of Materials Chemistry A, 2020, 8, 13285-13291.	5.2	65

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145	Waterâ€Pillared Sodium Vanadium Bronze Nanowires for Enhanced Rechargeable Magnesium Ion Storage. Small, 2020, 16, e2000741.	5.2	34
146	Branched Mesoporous TiO2 Mesocrystals by Epitaxial Assembly of Micelles for Photocatalysis. Cell Reports Physical Science, 2020, 1, 100081.	2.8	7
147	Wearable Textileâ€Based Coâ^'Zn Alkaline Microbattery with High Energy Density and Excellent Reliability. Small, 2020, 16, e2000293.	5.2	47
148	Cobalt decorated nitrogen-doped carbon bowls as efficient electrocatalysts for the oxygen reduction reaction. Chemical Communications, 2020, 56, 4488-4491.	2.2	35
149	Three-dimensional graphene-supported nickel disulfide nanoparticles promise stable and fast potassium storage. Nanoscale, 2020, 12, 8255-8261.	2.8	35
150	Highly Efficient Non-Nucleophilic Mg(CF₃SO₃)₂-Based Electrolyte for High-Power Mg/S Battery. ACS Applied Materials & Interfaces, 2020, 12, 17474-17480.	4.0	54
151	In situ monitoring of the electrochemically induced phase transition of thermodynamically metastable 1T-MoS₂ at nanoscale. Nanoscale, 2020, 12, 9246-9254.	2.8	33
152	3D Nitrogenâ€Doped Graphene Encapsulated Metallic Nickelâ€“Iron Alloy Nanoparticles for Efficient Bifunctional Oxygen Electrocatalysis. Chemistry - A European Journal, 2020, 26, 3896.	1.7	4
153	Zn²⁺ Preâ€Intercalation Stabilizes the Tunnel Structure of MnO₂ Nanowires and Enables Zincâ€Ion Hybrid Supercapacitor of Batteryâ€Level Energy Density. Small, 2020, 16, e2000091.	5.2	139
154	FeN_xand Î³-Fe₂O₃co-functionalized hollow graphitic carbon nanofibers for efficient oxygen reduction in an alkaline medium. Journal of Materials Chemistry A, 2020, 8, 6076-6082.	5.2	40
155	Universal Approach to Fabricating Graphene-Supported Single-Atom Catalysts from Doped ZnO Solid Solutions. ACS Central Science, 2020, 6, 1431-1440.	5.3	69
156	Active sites enriched hard carbon porous nanobelts for stable and high-capacity potassium-ion storage. Nano Energy, 2020, 77, 105018.	8.2	96
157	Strain engineering by atomic lattice locking in P2-type layered oxide cathode for high-voltage sodium-ion batteries. Nano Energy, 2020, 76, 105061.	8.2	25
158	Ultra-fast and high-stable near-pseudocapacitance intercalation cathode for aqueous potassium-ion storage. Nano Energy, 2020, 77, 105069.	8.2	32
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