Zhen Zhou

List of Publications by Year
in descending order

368 papers	37,875 citations	1368 108 h-index	3815 178 g-index
378 all docs	378 docs citations	378 times ranked	30115 citing authors

#	Article	IF	Citations
1	Controllable fabrication and structure evolution of hierarchical 1T-MoS2 nanospheres for efficient hydrogen evolution. Green Energy and Environment, 2022, 7, 314-323.	4.7	28
2	2D Materials Bridging Experiments and Computations for Electro/Photocatalysis. Advanced Energy Materials, 2022, 12, 2003841.	10.2	116
3	Building the Stable Oxygen Framework in Highâ€Ni Layered Oxide Cathode for Highâ€Energyâ€Density Liâ€Ion Batteries. Energy and Environmental Materials, 2022, 5, 1260-1269.	7.3	15
4	Defective/Doped Grapheneâ€Based Materials as Cathodes for Metalâ€“Air Batteries. Energy and Environmental Materials, 2022, 5, 1103-1116.	7.3	16
5	Targeted design of advanced electrocatalysts by machine learning. Chinese Journal of Catalysis, 2022, 43, 11-32.	6.9	63
6	Atomic Feâ€“N₄/C in Flexible Carbon Fiber Membrane as Binderâ€Free Air Cathode for Znâ€“Air Batteries with Stable Cycling over 1000 h. Advanced Materials, 2022, 34, e2105410.	11.1	158
7	Nickel single-atom catalysts intrinsically promoted by fast pyrolysis for selective electroreduction of CO2 into CO. Applied Catalysis B: Environmental, 2022, 304, 120997.	10.8	73
8	Synthesis of metal silicides using polyhedral oligomeric silsesquioxane as a silicon source for semi-hydrogenation of phenylacetylene. Inorganic Chemistry Frontiers, 2022, 9, 1386-1394.	3.0	0
9	Perspective on Theoretical Models for CO₂ Electrochemical Reduction. Journal of Physical Chemistry C, 2022, 126, 3820-3829.	1.5	28
10	S vacancies in 2D SnS2 accelerating hydrogen evolution reaction. Science China Materials, 2022, 65, 1833-1841.	3.5	19
11	Redox mediators for high-performance lithiumâ€“oxygen batteries. National Science Review, 2022, 9, nwac040.	4.6	54
12	Cobalt oxyhydroxide decorating hollow carbon sphere: A high-efficiency multi-functional material for Li-S batteries and alkaline electrocatalysis. Chemical Engineering Journal, 2022, 439, 135790.	6.6	31
13	Direct In Situ Spectroscopic Evidence for Solution-Mediated Oxygen Reduction Reaction Intermediates in Aprotic Lithiumâ€“Oxygen Batteries. Nano Letters, 2022, 22, 501-507.	4.5	16
14	Fiberâ€Reinforced Composite Polymer Electrolytes for Solidâ€State Lithium Batteries. Advanced Sustainable Systems, 2022, 6, .	2.7	16
15	Oxygen reduction reaction on Pt-based electrocatalysts: Four-electron vs. two-electron pathway. Chinese Journal of Catalysis, 2022, 43, 1433-1443.	6.9	37
16	Frenkel-defected monolayer MoS2 catalysts for efficient hydrogen evolution. Nature Communications, 2022, 13, 2193.	5.8	137
17	Observation of oxygen evolution over a {Ni12}-cluster-based metal-organic framework. Science China Chemistry, 2022, 65, 1088-1093.	4.2	11
18	In Situ Anchoring Massive Isolated Pt Atoms at Cationic Vacancies of Î±â€Ni_xFe_{1â€x}(OH)₂ to Regulate the Electronic Structure for Overall Water Splitting. Advanced Functional Materials, 2022, 32, .	7.8	63

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19	Accelerated Mining of 2D Van der Waals Heterojunctions by Integrating Supervised and Unsupervised Learning. Chemistry of Materials, 2022, 34, 5571-5583.	3.2	7
20	Single Moâ€“N₄ Atomic Sites Anchored on Nâ€doped Carbon Nanoflowers as Sulfur Host with Multiple Immobilization and Catalytic Effects for Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2022, 32, .	7.8	39
21	Lightâ€Assisted Liâ€“O₂ Batteries with Lowered Bias Voltages by Redox Mediators. Small, 2022, 18, .	5.2	13
22	Coal-based ultrathin N-doped carbon nanosheets synthesized by molten-salt method for high-performance lithium-ion batteries. Nanotechnology, 2022, 33, 425401.	1.3	5
23	Transition metal doping BiOBr nanosheets with oxygen vacancy and exposed {102} facets for visible light nitrogen fixation. Applied Catalysis B: Environmental, 2021, 281, 119516.	10.8	141
24	Tuning the structure and morphology of Li2O2 by controlling the crystallinity of catalysts for Li-O2 batteries. Chemical Engineering Journal, 2021, 409, 128145.	6.6	45
25	A composite of CoNiP quantum dot-decorated reduced graphene oxide as a sulfur host for Liâ€“S batteries. Journal of Materials Chemistry A, 2021, 9, 16692-16698.	5.2	54
26	Controllable atomic defect engineering in layered Ni_xFe_{1â^'x}(OH)₂ nanosheets for electrochemical overall water splitting. Journal of Materials Chemistry A, 2021, 9, 14432-14443.	5.2	84
27	Journal of Materials Chemistry A and Materials Advances Editor's choice web collection: â€œMachine learning for materials innovationâ€. Materials Advances, 2021, 2, 825-826.	2.6	1
28	Nonâ€Metal Ion Coâ€Insertion Chemistry in Aqueous Zn/MnO₂ Batteries. Angewandte Chemie, 2021, 133, 7132-7136.	1.6	25
29	Recent Advances in Alkali Metalâ€Ion Hybrid Supercapacitors. Batteries and Supercaps, 2021, 4, 1108-1121.	2.4	27
30	NASICONâ€Type Na₃Zr₂Si₂PO₁₂ Solidâ€State Electrolytes for Sodium Batteries**. ChemElectroChem, 2021, 8, 1035-1047.	1.7	68
31	Nonâ€Metal Ion Coâ€Insertion Chemistry in Aqueous Zn/MnO₂ Batteries. Angewandte Chemie - International Edition, 2021, 60, 7056-7060.	7.2	146
32	Threeâ€Dimensional Grapheneâ€Based Macrostructures for Electrocatalysis. Small, 2021, 17, e2005255.	5.2	34
33	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al3+ insertion. Cell Reports Physical Science, 2021, 2, 100354.	2.8	32
34	Single-atom catalysts for electrochemical energy storage and conversion. Journal of Energy Chemistry, 2021, 63, 170-194.	7.1	61
35	Catalyst Design for Electrochemical Reduction of CO₂ to Multicarbon Products. Small Methods, 2021, 5, e2100736.	4.6	74
36	Pd-promoting reduction of zinc salt to PdZn alloy catalyst for the hydrogenation of nitrothioanisole. Journal of Colloid and Interface Science, 2021, 602, 459-468.	5.0	13

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37	Journal of Materials Chemistry A and Materials Advances Editorâ€™s choice web collection: â€œMachine learning for materials innovationâ€• Journal of Materials Chemistry A, 2021, 9, 1295-1296.	5.2	24
38	Carbon Nanofibers with Embedded Sb₂Se₃ Nanoparticles as Highly Reversible Anodes for Naâ€ion Batteries. Small, 2021, 17, e2006016.	5.2	54
39	Understanding the role of axial O in CO₂ electroreduction on NiN₄ single-atom catalysts via simulations in realistic electrochemical environment. Journal of Materials Chemistry A, 2021, 9, 23515-23521.	5.2	45
40	In situ redox reaction induced firmly anchoring of Na3V2(PO4)2F3 on reduced graphene oxide & carbon nanosheets as cathodes for high stable sodium-ion batteries. Journal of Power Sources, 2021, 516, 230515.	4.0	21
41	Cuâ€“ion induced self-polymerization of Cu phthalocyanine to prepare low-cost organic cathode materials for Li-ion batteries with ultra-high voltage and ultra-fast rate capability. Journal of Materials Chemistry A, 2021, 9, 24915-24921.	5.2	5
42	p-Block elements for catalysis. Npj Computational Materials, 2021, 7, .	3.5	10
43	Ultrathin salt-free polymer-in-ceramic electrolyte for solid-state sodium batteries. EScience, 2021, 1, 194-202.	25.0	47
44	Design of ultralong-life Liâ€“CO₂ batteries with IrO₂ nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. Journal of Materials Chemistry A, 2020, 8, 3763-3770.	5.2	58
45	2â€‰D Materials for Electrochemical Energy Storage: Design, Preparation, and Application. ChemSusChem, 2020, 13, 1155-1171.	3.6	77
46	Metalâ€“CO₂ Batteries at the Crossroad to Practical Energy Storage and CO₂ Recycle. Advanced Functional Materials, 2020, 30, 1908285.	7.8	103
47	Ni₃S₂ anchored to N/S co-doped reduced graphene oxide with highly pleated structure as a sulfur host for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2020, 8, 3834-3844.	5.2	56
48	Understanding the Structureâ€“Performance Relationship of Lithium-Rich Cathode Materials from an Oxygen-Vacancy Perspective. ACS Applied Materials & Interfaces, 2020, 12, 47655-47666.	4.0	44
49	Frontispiz: Enzymeâ€inspired Roomâ€temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie, 2020, 132, .	1.6	0
50	Carbon block anodes with columnar nanopores constructed from amine-functionalized carbon nanosheets for sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 24393-24400.	5.2	11
51	Diversified development of CO2 in energy storage. Green Chemical Engineering, 2020, 1, 79-81.	3.3	14
52	A first-principles study of electronic structure and photocatalytic performance of two-dimensional van der Waals MTe2â€“As (MÂ=ÂMo, W) heterostructures. International Journal of Hydrogen Energy, 2020, 45, 27089-27097.	3.8	35
53	Enzymeâ€inspired Roomâ€temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie - International Edition, 2020, 59, 17856-17863.	7.2	20
54	Coupling of triporosity and strong Auâ€“Li interaction to enable dendrite-free lithium plating/stripping for long-life lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 18094-18105.	5.2	56

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55	Surface modification of garnet with amorphous SnO₂via atomic layer deposition. Journal of Materials Chemistry A, 2020, 8, 18087-18093.	5.2	25
56	Enzymeâ€Inspired Roomâ€Temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie, 2020, 132, 18012-18019.	1.6	4
57	A Machine Learning Model on Simple Features for CO₂ Reduction Electrocatalysts. Journal of Physical Chemistry C, 2020, 124, 22471-22478.	1.5	125
58	Frontispiece: Enzymeâ€Inspired Roomâ€Temperature Lithiumâ€“Oxygen Chemistry via Reversible Cleavage and Formation of Dioxygen Bonds. Angewandte Chemie - International Edition, 2020, 59, .	7.2	0
59	Targeting specific cell organelles with different-faceted nanocrystals that are selectively recognized by organelle-targeting peptides. Chemical Communications, 2020, 56, 7613-7616.	2.2	6
60	Building Artificial Solidâ€Electrolyte Interphase with Uniform Intermolecular Ionic Bonds toward Dendriteâ€Free Lithium Metal Anodes. Advanced Functional Materials, 2020, 30, 2002414.	7.8	104
61	A CO₂-Assisted Sodiumâ€“Phenanthrenequinone Battery. Journal of Physical Chemistry Letters, 2020, 11, 5350-5353.	2.1	3
62	Well-dispersed Na₃V₂(PO₄)₂F₃@rGO with improved kinetics for high-power sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 12391-12397.	5.2	76
63	Machine learning: Accelerating materials development for energy storage and conversion. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 553-576.	8.5	212
64	Boosting bifunctional electrocatalytic activity in S and N co-doped carbon nanosheets for high-efficiency Znâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 4386-4395.	5.2	101
65	A Cu₂B₂ monolayer with planar hypercoordinate motifs: an efficient catalyst for CO electroreduction to ethanol. Journal of Materials Chemistry A, 2020, 8, 9607-9615.	5.2	32
66	Electronic and photocatalytic performance of boron phosphide-blue phosphorene vdW heterostructures. Applied Surface Science, 2020, 523, 146483.	3.1	77
67	Towards practical lithium-metal anodes. Chemical Society Reviews, 2020, 49, 3040-3071.	18.7	473
68	Critical interface between inorganic solid-state electrolyte and sodium metal. Materials Today, 2020, 41, 200-218.	8.3	62
69	Electrolyteâ€Regulated Solidâ€Electrolyte Interphase Enables Long Cycle Life Performance in Organic Cathodes for Potassiumâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1807137.	7.8	120
70	Sulfur/nickel ferrite composite as cathode with high-volumetric-capacity for lithium-sulfur battery. Science China Materials, 2019, 62, 74-86.	3.5	86
71	Highâ€throughput computational screening of layered and twoâ€dimensional materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2019, 9, e1385.	6.2	43
72	CuO Nanoplates for Highâ€Performance Potassiumâ€Ion Batteries. Small, 2019, 15, e1901775.	5.2	111

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73	Algorithm screening to accelerate discovery of 2D metal-free electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 19290-19296.	5.2	48
74	Liâ€N₂ Batteries: A Reversible Energy Storage System?. Angewandte Chemie - International Edition, 2019, 58, 17782-17787.	7.2	39
75	Cation-induced chirality in a bifunctional metal-organic framework for quantitative enantioselective recognition. Nature Communications, 2019, 10, 5117.	5.8	150
76	Liâ€N 2 Batteries: A Reversible Energy Storage System?. Angewandte Chemie, 2019, 131, 17946-17951.	1.6	2
77	Bifunctional electrocatalysts for rechargeable Zn-air batteries. Chinese Journal of Catalysis, 2019, 40, 1298-1310.	6.9	111
78	Metalâ€“organic-framework-derived porous 3D heterogeneous NiFe_x/NiFe₂O₄@NC nanoflowers as highly stable and efficient electrocatalysts for the oxygen-evolution reaction. Journal of Materials Chemistry A, 2019, 7, 21338-21348.	5.2	71
79	Integrated insights into Na⁺ storage mechanism and electrochemical kinetics of ultrafine V₂O₃/S and N co-doped rGO composites as anodes for sodium ion batteries. Journal of Materials Chemistry A, 2019, 7, 22429-22435.	5.2	29
80	Recent Progress in Protecting Lithium Anodes for Liâ€O₂ Batteries. ChemElectroChem, 2019, 6, 1969-1977.	1.7	39
81	Synergistic effect of Zr-MOF on phosphomolybdic acid promotes efficient oxidative desulfurization. Applied Catalysis B: Environmental, 2019, 256, 117804.	10.8	131
82	Computationally predicting spin semiconductors and half metals from doped phosphorene monolayers. Frontiers of Physics, 2019, 14, 1.	2.4	14
83	Lithium-air batteries: Challenges coexist with opportunities. APL Materials, 2019, 7, .	2.2	47
84	MoCl₅ as a dual-function redox mediator for Liâ€“O₂ batteries. Journal of Materials Chemistry A, 2019, 7, 14239-14243.	5.2	23
85	A Gadolinium(III) Zeolite-like Metal-Organic-Framework-Based Magnetic Resonance Thermometer. CheM, 2019, 5, 1609-1618.	5.8	38
86	Computational Screening of Layered Materials for Multivalent Ion Batteries. ACS Omega, 2019, 4, 7822-7828.	1.6	33
87	Band engineering of two-dimensional Ruddlesdenâ€“Popper perovskites for solar utilization: the relationship between chemical components and electronic properties. Journal of Materials Chemistry A, 2019, 7, 11530-11536.	5.2	17
88	Carbonâ€Based Substrates for Highly Dispersed Nanoparticle and Even Singleâ€Atom Electrocatalysts. Small Methods, 2019, 3, 1900050.	4.6	87
89	Understanding Rechargeable Liâ^'O₂ Batteries via Firstâ€Principles Computations. Batteries and Supercaps, 2019, 2, 498-508.	2.4	31
90	Bi-layer Graphene: Structure, Properties, Preparation and Prospects. Current Graphene Science, 2019, 2, 97-105.	0.5	3

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91	2D Triphosphides: SbP3 and GaP3 monolayer as promising photocatalysts for water splitting. International Journal of Hydrogen Energy, 2019, 44, 5948-5954.	3.8	52
92	LiFePO₄ Particles Embedded in Fast Bifunctional Conductor rGO&C@Li₃V₂(PO₄)₃ Nanosheets as Cathodes for Highâ€Performance Liâ€Ion Hybrid Capacitors. Advanced Functional Materials, 2019, 29, 1807895.	7.8	42
93	Titelbild: Liâ€N₂ Batteries: A Reversible Energy Storage System? (Angew. Chem. 49/2019). Angewandte Chemie, 2019, 131, 17645-17645.	1.6	1
94	Fe nanodot-decorated MoS₂ nanosheets on carbon cloth: an efficient and flexible electrode for ambient ammonia synthesis. Journal of Materials Chemistry A, 2019, 7, 27417-27422.	5.2	77
95	Rational design of C₂N-based type-II heterojunctions for overall photocatalytic water splitting. Nanoscale Advances, 2019, 1, 154-161.	2.2	70
96	Exploiting Synergistic Effect by Integrating Rutheniumâ€“Copper Nanoparticles Highly Coâ€Dispersed on Graphene as Efficient Air Cathodes for Liâ€“CO₂ Batteries. Advanced Energy Materials, 2019, 9, 1802805.	10.2	100
97	Highly reversible alloying/dealloying behavior of SnSb nanoparticles incorporated into N-rich porous carbon nanowires for ultra-stable Na storage. Energy Storage Materials, 2019, 21, 203-209.	9.5	42
98	Metalâ€“Organic Frameworks (MOFs) and MOF-Derived Materials for Energy Storage and Conversion. Electrochemical Energy Reviews, 2019, 2, 29-104.	13.1	274
99	Promoting Nitrogen Electroreduction on Mo₂C Nanoparticles Highly Dispersed on Nâ€Doped Carbon Nanosheets toward Rechargeable Liâ€“N₂ Batteries. Small Methods, 2019, 3, 1800334.	4.6	36
100	Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie, 2019, 131, 1175-1179.	1.6	73
101	Carbonâ€Supported Divacancyâ€Anchored Platinum Singleâ€Atom Electrocatalysts with Superhigh Pt Utilization for the Oxygen Reduction Reaction. Angewandte Chemie - International Edition, 2019, 58, 1163-1167.	7.2	252
102	Fabricating high-performance sodium ion capacitors with P2-Na0.67Co0.5Mn0.5O2 and MOF-derived carbon. Journal of Energy Chemistry, 2019, 28, 79-84.	7.1	31
103	Bifunctional electrocatalysts of MOF-derived Coâ€“N/C on bamboo-like MnO nanowires for high-performance liquid- and solid-state Znâ€“air batteries. Journal of Materials Chemistry A, 2018, 6, 9716-9722.	5.2	167
104	Thermal Instability Induced Oriented 2D Pores for Enhanced Sodium Storage. Small, 2018, 14, e1800639.	5.2	46
105	Synergistic electrocatalytic oxygen reduction reactions of Pd/B4C for ultra-stable Zn-air batteries. Energy Storage Materials, 2018, 15, 226-233.	9.5	45
106	Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts. Small Methods, 2018, 2, 1700359.	4.6	151
107	Binder-free NiFe 2 O 4 /C nanofibers as air cathodes for Li-O 2 batteries. Journal of Power Sources, 2018, 377, 136-141.	4.0	59
108	Micro/Nanostructured Materials for Sodium Ion Batteries and Capacitors. Small, 2018, 14, 1702961.	5.2	210

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109	Identification of cathode stability in Liâ€“CO₂batteries with Cu nanoparticles highly dispersed on N-doped graphene. Journal of Materials Chemistry A, 2018, 6, 3218-3223.	5.2	126
110	What is the promising anode material for Na ion batteries?. Science Bulletin, 2018, 63, 146-148.	4.3	28
111	High performance Liâ€“CO₂ batteries with NiOâ€“CNT cathodes. Journal of Materials Chemistry A, 2018, 6, 2792-2796.	5.2	146
112	Computational screening and first-principles investigations of NASICON-type Li_xM₂(PO₄)₃ as solid electrolytes for Li batteries. Journal of Materials Chemistry A, 2018, 6, 2625-2631.	5.2	46
113	An effective method to screen sodium-based layered materials for sodium ion batteries. Npj Computational Materials, 2018, 4, .	3.5	77
114	SiP monolayers: New 2D structures of group IVâ€“V compounds for visible-light photohydrolytic catalysts. Frontiers of Physics, 2018, 13, 1.	2.4	30
115	Metal-oxygen bonds: Stabilizing the intermediate species towards practical Li-air batteries. Electrochimica Acta, 2018, 259, 313-320.	2.6	12
116	Hard carbon derived from corn straw piths as anode materials for sodium ion batteries. Ionics, 2018, 24, 1075-1081.	1.2	59
117	Verifying the Rechargeability of Liâ€CO₂ Batteries on Working Cathodes of Ni Nanoparticles Highly Dispersed on Nâ€Doped Graphene. Advanced Science, 2018, 5, 1700567.	5.6	159
118	MXene-based materials for electrochemical energy storage. Journal of Energy Chemistry, 2018, 27, 73-85.	7.1	548
119	PAN@ZIF-67-Derived â€œGypsophilaâ€•Like CNFs@Co-CoO Composite as a Cathode for Liâ€“O₂ Batteries. Inorganic Chemistry, 2018, 57, 14476-14479.	1.9	22
120	Heteroatom-doped carbon materials and their composites as electrocatalysts for CO₂ reduction. Journal of Materials Chemistry A, 2018, 6, 18782-18793.	5.2	136
121	Cu₃-Cluster-Doped Monolayer Mo₂CO₂ (MXene) as an Electron Reservoir for Catalyzing a CO Oxidation Reaction. ACS Applied Materials & Interfaces, 2018, 10, 32903-32912.	4.0	51
122	Double-atom catalysts: transition metal dimer-anchored C₂N monolayers as N₂ fixation electrocatalysts. Journal of Materials Chemistry A, 2018, 6, 18599-18604.	5.2	224
123	Robust ferromagnetism in zigzag-edge rich MoS₂ pyramids. Nanoscale, 2018, 10, 11578-11584.	2.8	25
124	Unveiling the Complex Effects of H₂O on Dischargeâ€“Recharge Behaviors of Aprotic Lithiumâ€“O₂ Batteries. Journal of Physical Chemistry Letters, 2018, 9, 3333-3339.	2.1	60
125	Transition metal anchored C₂N monolayers as efficient bifunctional electrocatalysts for hydrogen and oxygen evolution reactions. Journal of Materials Chemistry A, 2018, 6, 11446-11452.	5.2	223
126	Micro/Nanostructureâ€Dependent Electrochemical Performances of Sb 2 O 3 Microâ€Bundles as Anode Materials for Sodiumâ€Ion Batteries. ChemElectroChem, 2018, 5, 2522-2527.	1.7	15

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127	Interlayerâ€Spacingâ€Regulated VOPO₄ Nanosheets with Fast Kinetics for Highâ€Capacity and Durable Rechargeable Magnesium Batteries. Advanced Materials, 2018, 30, e1801984.	11.1	171
128	An Extremely Simple Method for Protecting Lithium Anodes in Liâ€O₂ Batteries. Angewandte Chemie, 2018, 130, 12996-13000.	1.6	40
129	Moltenâ€Saltâ€Assisted Synthesis of 3D Holey Nâ€Doped Graphene as Bifunctional Electrocatalysts for Rechargeable Znâ€“Air Batteries. Small Methods, 2018, 2, 1800144.	4.6	77
130	An Extremely Simple Method for Protecting Lithium Anodes in Liâ€O₂ Batteries. Angewandte Chemie - International Edition, 2018, 57, 12814-12818.	7.2	88
131	Electronic structure of heterojunction MoO2/g-C3N4 catalyst for oxidative desulfurization. Applied Catalysis B: Environmental, 2018, 238, 263-273.	10.8	178
132	In Situ Chelating Synthesis of Hierarchical LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Polyhedron Assemblies with Ultralong Cycle Life for Liâ€Ion Batteries. Small, 2018, 14, e1704354.	5.2	27
133	Fabricating Ir/C Nanofiber Networks as Freeâ€Standing Air Cathodes for Rechargeable Liâ€CO₂ Batteries. Small, 2018, 14, e1800641.	5.2	118
134	Water Splitting: Computational Screening of 2D Materials and Rational Design of Heterojunctions for Water Splitting Photocatalysts (Small Methods 5/2018). Small Methods, 2018, 2, 1800031.	4.6	1
135	Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Faceâ€toâ€Face Anchored to Graphene Nanosheets for Highâ€Efficiency Lithium Storage. Advanced Functional Materials, 2017, 27, 1605544.	7.8	103
136	Metalâ€“CO₂ Batteries on the Road: CO₂ from Contamination Gas to Energy Source. Advanced Materials, 2017, 29, 1605891.	11.1	226
137	Tetragonal-structured anisotropic 2D metal nitride monolayers and their halides with versatile promises in energy storage and conversion. Journal of Materials Chemistry A, 2017, 5, 2870-2875.	5.2	42
138	A Robust Hybrid of SnO₂ Nanoparticles Sheathed by Nâ€Doped Carbon Derived from ZIFâ€8 as Anodes for Liâ€Ion Batteries. ChemNanoMat, 2017, 3, 252-258.	1.5	23
139	Recent Breakthroughs in Supercapacitors Boosted by Nitrogenâ€Rich Porous Carbon Materials. Advanced Science, 2017, 4, 1600408.	5.6	348
140	Atomic Interface Engineering and Electricâ€Field Effect in Ultrathin Bi₂MoO₆ Nanosheets for Superior Lithium Ion Storage. Advanced Materials, 2017, 29, 1700396.	11.1	343
141	Boosting the rate capability of hard carbon with an ether-based electrolyte for sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 9528-9532.	5.2	148
142	Ti₂CO₂MXene: a highly active and selective photocatalyst for CO₂reduction. Journal of Materials Chemistry A, 2017, 5, 12899-12903.	5.2	221
143	Improving Electrochemical Performances of Rechargeable Liâ€“CO₂ Batteries with an Electrolyte Redox Mediator. ChemElectroChem, 2017, 4, 2145-2149.	1.7	76
144	First-principles computational studies on layered Na₂Mn₃O₇ as a high-rate cathode material for sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 12752-12756.	5.2	39

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145	K_{1â€“x}Mo₃P₂O₁₄ as Support for Single-Atom Catalysts. Journal of Physical Chemistry C, 2017, 121, 22895-22900.	1.5	12
146	Tâ€Nb₂O₅/C Nanofibers Prepared through Electrospinning with Prolonged Cycle Durability for Highâ€Rate Sodiumâ€“Ion Batteries Induced by Pseudocapacitance. Small, 2017, 13, 1702588.	5.2	107
147	Fast Sodium Storage in TiO₂@CNT@C Nanorods for Highâ€Performance Naâ€Ion Capacitors. Advanced Energy Materials, 2017, 7, 1701222.	10.2	296
148	Oriented SnS nanoflakes bound on S-doped N-rich carbon nanosheets with a rapid pseudocapacitive response as high-rate anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 19745-19751.	5.2	108
149	Zeolitic imidazole framework derived composites of nitrogen-doped porous carbon and reduced graphene oxide as high-efficiency cathode catalysts for Liâ€“O₂ batteries. Inorganic Chemistry Frontiers, 2017, 4, 1533-1538.	3.0	30
150	MnBx monolayers with quasi-planar hypercoordinate Mn atoms and unique magnetic and mechanical properties. FlatChem, 2017, 4, 42-47.	2.8	14
151	GO-induced preparation of flake-shaped Na₃V₂(PO₄)₃@rGO as high-rate and long-life cathodes for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 25276-25281.	5.2	62
152	Heteroatom-doped graphene as electrocatalysts for air cathodes. Materials Horizons, 2017, 4, 7-19.	6.4	142
153	Sâ€Doped Nâ€Rich Carbon Nanosheets with Expanded Interlayer Distance as Anode Materials for Sodiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1604108.	11.1	566
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