Feng Pan

List of Publications by Year
in descending order

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361 papers	22,232 citations	7251 80 h-index	15698 129 g-index
365 all docs	365 docs citations	365 times ranked	20384 citing authors

#	Article	IF	Citations
1	Encoding the atomic structure for machine learning in materials science. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2022, 12, e1558.	6.2	29
2	Coilâ€toâ€Stretch Transition of Binder Chains Enabled by â€œNanoâ€Combsâ€• to Facilitate Highly Stable SiO_x Anode. Energy and Environmental Materials, 2022, 5, 1310-1316.	7.3	4
3	Superior cycling stability of H0.642V2O5Â·0.143H2O in rechargeable aqueous zinc batteries. Science China Materials, 2022, 65, 78-84.	3.5	12
4	Advanced Electron Energy Loss Spectroscopy for Battery Studies. Advanced Functional Materials, 2022, 32, 2107190.	7.8	26
5	Highâ€Performance Si Photocathode Enabled by Spatial Decoupling Multifunctional Layers for Water Splitting. Advanced Functional Materials, 2022, 32, 2107164.	7.8	15
6	Breaking the energy density limit of LiNiO2: Li2NiO3 or Li2NiO2?. Science China Materials, 2022, 65, 913-919.	3.5	6
7	Co₄Nâ€Decorated 3D Woodâ€Derived Carbon Host Enables Enhanced Cathodic Electrocatalysis and Homogeneous Lithium Deposition for Lithiumâ€“Sulfur Full Cells. Small, 2022, 18, e2105664.	5.2	34
8	Heavy Fluorination via Ion Exchange Achieves Highâ€Performance Liâ€“Mnâ€“Oâ€“F Layered Cathode for Liâ€Ion Batteries. Small, 2022, 18, e2103499.	5.2	10
9	Influence of electrolyte structural evolution on battery applications: Cationic aggregation from dilute to high concentration. Aggregate, 2022, 3, .	5.2	37
10	Li-rich channels as the material gene for facile lithium diffusion in halide solid electrolytes. EScience, 2022, 2, 79-86.	25.0	28
11	Defect-mediated Jahn-Teller effect in layered LiNiO2. Science China Materials, 2022, 65, 1696-1700.	3.5	8
12	Thiotetrelates Li₂ZnXS₄ (X = Si, Ge, and Sn) As Potential Li-Ion Solid-State Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 9203-9211.	4.0	2
13	Tailoring the coercive field in ferroelectric metal-free perovskites by hydrogen bonding. Nature Communications, 2022, 13, 794.	5.8	24
14	Graph-based discovery and analysis of atomic-scale one-dimensional materials. National Science Review, 2022, 9, .	4.6	5
15	Automating Materials Exploration with a Semantic Knowledge Graph for Liâ€Ion Battery Cathodes. Advanced Functional Materials, 2022, 32, .	7.8	16
16	Bioâ€Inspired Binder Design for a Robust Conductive Network in Siliconâ€Based Anodes. Small Methods, 2022, 6, e2101591.	4.6	23
17	Enhanced Ferroelectric and Piezoelectric Properties in Graphene-Electroded Pb(Zr,Ti)O₃ Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 17987-17994.	4.0	5
18	Tuning core-shell structural architecture for high-performance Li-Mn-O layered oxides. Nano Energy, 2022, 96, 107092.	8.2	5

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19	Scalable Lithiophilic/Sodiophilic Porous Buffer Layer Fabrication Enables Uniform Nucleation and Growth for Lithium/Sodium Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	21
20	Surface Design with Cation and Anion Dual Gradient Stabilizes Highâ€Voltage LiCoO₂. Advanced Energy Materials, 2022, 12, .	10.2	36
21	Delocalized Li@Mn6 superstructure units enable layer stability of high-performance Mn-rich cathode materials. CheM, 2022, 8, 2163-2178.	5.8	19
22	Progress in interface structure and modification of zinc anode for aqueous batteries. Nano Energy, 2022, 98, 107333.	8.2	93
23	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. Nature Energy, 2022, 7, 808-817.	19.8	55
24	Intercalation-driven ferroelectric-to-ferroelastic conversion in a layered hybrid perovskite crystal. Nature Communications, 2022, 13, .	5.8	27
25	Elastic Lattice Enabling Reversible Tetrahedral Li Storage Sites in a Highâ€Capacity Manganese Oxide Cathode. Advanced Materials, 2022, 34, .	11.1	15
26	Strategies and characterization methods for achieving high performance PEO-based solid-state lithium-ion batteries. Chemical Communications, 2022, 58, 8182-8193.	2.2	24
27	Biomimetic Lipidâ€Bilayer Anode Protection for Long Lifetime Aqueous Zincâ€Metal Batteries. Advanced Functional Materials, 2022, 32, .	7.8	16
28	Origin of structural degradation in Li-rich layered oxide cathode. Nature, 2022, 606, 305-312.	13.7	206
29	Promoting the performances of P2-type sodium layered cathode by inducing Na site rearrangement. Nano Energy, 2022, 100, 107482.	8.2	25
30	The Interfacial Properties of Monolayer MXâ€“Metal Contacts. Journal of Electronic Materials, 2022, 51, 4824-4835.	1.0	3
31	Band-Structure Engineering of Copper Benzenehexathiol for Reversible Mechanochromism: A First-Principles Study. Journal of Physical Chemistry C, 2022, 126, 11642-11651.	1.5	0
32	3D Hierarchical Grapheneâ€CNT Anode for Sodiumâ€Ion Batteries: a Firstâ€Principles Assessment. Advanced Theory and Simulations, 2022, 5, .	1.3	1
33	Boosting the Energy Density of Aqueous Batteries via Facile Grotthuss Proton Transport. Angewandte Chemie, 2021, 133, 4215-4220.	1.6	27
34	Structure and Properties of Prussian Blue Analogues in Energy Storage and Conversion Applications. Advanced Functional Materials, 2021, 31, 2006970.	7.8	238
35	Valence state of transition metal center as an activity descriptor for CO2 reduction on single atom catalysts. Journal of Energy Chemistry, 2021, 56, 444-448.	7.1	20
36	Tuning Zn2+ coordination environment to suppress dendrite formation for high-performance Zn-ion batteries. Nano Energy, 2021, 80, 105478.	8.2	318

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37	Optimizing Ion Pathway in Titanium Carbide MXene for Practical Highâ€Rate Supercapacitor. Advanced Energy Materials, 2021, 11, 2003025.	10.2	152
38	Atomic/nano-scale in-situ probing the shuttling effect of redox mediator in Naâ€“O2 batteries. Journal of Energy Chemistry, 2021, 56, 438-443.	7.1	7
39	Boosting the Energy Density of Aqueous Batteries via Facile Grotthuss Proton Transport. Angewandte Chemie - International Edition, 2021, 60, 4169-4174.	7.2	116
40	Deciphering the Oxygen Absorption Preâ€edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. Energy and Environmental Materials, 2021, 4, 246-254.	7.3	56
41	Co13O8â€”metalloxocubes: a new class of perovskite-like neutral clusters with cubic aromaticity. National Science Review, 2021, 8, nwaa201.	4.6	21
42	Discovering a New class of fluoride solid-electrolyte materials via screening the structural property of Li-ion sublattice. Nano Energy, 2021, 79, 105407.	8.2	24
43	Improvement of alkali metal ion batteries via interlayer engineering of anodes: from graphite to graphene. Nanoscale, 2021, 13, 12521-12533.	2.8	14
44	Structure evolution and energy storage mechanism of Zn₃V₃O₈ spinel in aqueous zinc batteries. Nanoscale, 2021, 13, 14408-14416.	2.8	17
45	Tuning the exposure of BiVO₄-{010} facets to enhance the N₂ photofixation performance. RSC Advances, 2021, 11, 28908-28911.	1.7	3
46	Optimizing the sulfonic groups of a polymer to coat the zinc anode for dendrite suppression. Chemical Communications, 2021, 57, 5326-5329.	2.2	30
47	Interplay between multiple doping elements in high-voltage LiCoO₂. Journal of Materials Chemistry A, 2021, 9, 5702-5710.	5.2	33
48	Vanadium Cluster Neutrals Reacting with Water: Superatomic Features and Hydrogen Evolution in a Fishing Mode. Journal of Physical Chemistry Letters, 2021, 12, 1593-1600.	2.1	21
49	Simultaneously Regulating Uniform Zn2+ Flux and Electron Conduction by MOF/rGO Interlayers for High-Performance Zn Anodes. Nano-Micro Letters, 2021, 13, 73.	14.4	106
50	Topological representations of crystalline compounds for the machine-learning prediction of materials properties. Npj Computational Materials, 2021, 7, .	3.5	36
51	Structural origin of the high-voltage instability of lithium cobalt oxide. Nature Nanotechnology, 2021, 16, 599-605.	15.6	148
52	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. Nature Energy, 2021, 6, 277-286.	19.8	255
53	A Programmable and Automated Platform for Integrated Synthesis and Evaluation of Water Electrolysis Catalysts. Advanced Materials Technologies, 2021, 6, 2001036.	3.0	3
54	Construction and Application of Materials Knowledge Graph Based on Author Disambiguation: Revisiting the Evolution of LiFePO₄. Advanced Energy Materials, 2021, 11, 2003580.	10.2	16

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55	Cycling mechanism of Li2MnO3: Liâ€“CO2Âbatteries and commonality on oxygen redox in cathode materials. Joule, 2021, 5, 975-997.	11.7	88
56	Interactions are important: Linking multi-physics mechanisms to the performance and degradation of solid-state batteries. Materials Today, 2021, 49, 145-183.	8.3	51
57	Schottky barrier heights in two-dimensional field-effect transistors: from theory to experiment. Reports on Progress in Physics, 2021, 84, 056501.	8.1	97
58	Constructing a Highly Efficient Aligned Conductive Network to Facilitate Depolarized Highâ€Arealâ€Capacity Electrodes in Liâ€Ion Batteries. Advanced Energy Materials, 2021, 11, 2100601.	10.2	38
59	Progressive â€œLayer to Hybrid Spinel/Layerâ€•Phase Evolution with Proton and Zn²⁺ Co-intercalation to Enable High Performance of MnO₂-Based Aqueous Batteries. ACS Applied Materials & Interfaces, 2021, 13, 22466-22474.	4.0	13
60	Twin boundary defect engineering improves lithium-ion diffusion for fast-charging spinel cathode materials. Nature Communications, 2021, 12, 3085.	5.8	77
61	The role of M@Ni6 superstructure units in honeycomb-ordered layered oxides for Li/Na ion batteries. Nano Energy, 2021, 83, 105834.	8.2	15
62	Is graphite nanomesh a promising anode for the Na/K-Ions batteries?. Carbon, 2021, 176, 242-252.	5.4	28
63	Algebraic graph-assisted bidirectional transformers for molecular property prediction. Nature Communications, 2021, 12, 3521.	5.8	76
64	Oxygen-Deficient Î²-MnO2@Graphene Oxide Cathode for High-Rate and Long-Life Aqueous Zinc Ion Batteries. Nano-Micro Letters, 2021, 13, 173.	14.4	89
65	Atomically dispersed S-Fe-N4 for fast kinetics sodium-sulfur batteries via a dual function mechanism. Cell Reports Physical Science, 2021, 2, 100531.	2.8	31
66	Modifying Li@Mn₆ Superstructure Units by Al Substitution to Enhance the Longâ€Cycle Performance of Coâ€Free Liâ€Rich Cathode. Advanced Energy Materials, 2021, 11, 2101962.	10.2	39
67	PIMâ€1 as a Multifunctional Framework to Enable Highâ€Performance Solidâ€State Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2021, 31, 2104830.	7.8	47
68	Sub-10Ânm two-dimensional transistors: Theory and experiment. Physics Reports, 2021, 938, 1-72.	10.3	80
69	Constructing a Resilient Hierarchical Conductive Network to Promote Cycling Stability of SiO_x Anode via Binder Design. Small, 2021, 17, e2102256.	5.2	17
70	Synergistic Dissociationâ€andâ€Trapping Effect to Promote Liâ€Ion Conduction in Polymer Electrolytes via Oxygen Vacancies. Small, 2021, 17, e2102039.	5.2	38
71	Distinct Oxygen Redox Activities in Li₂MO₃ (M = Mn, Ru, Ir). ACS Energy Letters, 2021, 6, 3417-3424.	8.8	33
72	Recent Advances and Perspective on Electrochemical Ammonia Synthesis under Ambient Conditions. Small Methods, 2021, 5, e2100460.	4.6	33

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73	Controlled Experiments and Optimized Theory of Absorption Spectra of Li Metal and Salts. ACS Applied Materials & Interfaces, 2021, 13, 45488-45495.	4.0	8
74	Suppressing Polysulfide Shuttling in Lithiumâ€“Sulfur Batteries via a Multifunctional Conductive Binder. Small Methods, 2021, 5, e2100839.	4.6	14
75	Inherent inhibition of oxygen loss by regulating superstructural motifs in anionic redox cathodes. Nano Energy, 2021, 88, 106252.	8.2	32
76	Recent progress in Li and Mn rich layered oxide cathodes for Li-ion batteries. Journal of Energy Chemistry, 2021, 61, 368-385.	7.1	43
77	Tunning the linkage of structure units to enable stable spinel-based cathode in the wide potential window. Nano Energy, 2021, 89, 106457.	8.2	5
78	Understanding Li-ion thermodynamic and kinetic behaviors in concentrated electrolyte for the development of aqueous lithium-ion batteries. Nano Energy, 2021, 89, 106413.	8.2	13
79	P2/O3 biphasic Fe/Mn-based layered oxide cathode with ultrahigh capacity and great cyclability for sodium ion batteries. Nano Energy, 2021, 90, 106504.	8.2	69
80	Precision grain boundary engineering in commercial Bi₂Te_{2.7}Se_{0.3} thermoelectric materials towards high performance. Journal of Materials Chemistry A, 2021, 9, 11442-11449.	5.2	26
81	From bulk to interface: electrochemical phenomena and mechanism studies in batteries via electrochemical quartz crystal microbalance. Chemical Society Reviews, 2021, 50, 10743-10763.	18.7	48
82	In-Situ Polymerized Binder: A Three-in-One Design Strategy for All-Integrated SiO_x Anode with High Mass Loading in Lithium Ion Batteries. ACS Energy Letters, 2021, 6, 290-297.	8.8	92
83	Impact of Electrolyte Salts on Na Storage Performance for High-Surface-Area Carbon Anodes. ACS Applied Materials & Interfaces, 2021, 13, 48745-48752.	4.0	8
84	Tuning Site Energy by XO₆ Units in LiX₂(PO₄)₃ Enables High Li Ion Conductivity and Improved Stability. ACS Applied Materials & Interfaces, 2021, 13, 50948-50956.	4.0	7
85	Revealing Roles of Co and Ni in Mnâ€Rich Layered Cathodes. Advanced Energy Materials, 2021, 11, .	10.2	24
86	Highly Distorted Grain Boundary with an Enhanced Carrier/Phonon Segregation Effect Facilitates High-Performance Thermoelectric Materials. ACS Applied Materials & Interfaces, 2021, 13, 51018-51027.	4.0	13
87	Extracting Predictive Representations from Hundreds of Millions of Molecules. Journal of Physical Chemistry Letters, 2021, 12, 10793-10801.	2.1	28
88	Potential Solid-State Electrolytes with Good Balance between Ionic Conductivity and Electrochemical Stability: Li_{5â€“x}M_{1â€“x}M_xâ€²O₄ (M = Al, Ga	4.0	1
89	In situ Raman spectroscopyÂreveals the structure and dissociation of interfacial water. Nature, 2021, 600, 81-85.	13.7	381
90	Reducing parasitic absorption and recombination losses in silicon solar cells through transition metal doped glass frit. Functional Materials Letters, 2020, 13, 1950087.	0.7	1

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91	Efficient Ni₂Co₄P₃ Nanowires Catalysts Enhance Ultrahighâ€Loading Lithiumâ€“Sulfur Conversion in a Microreactorâ€Like Battery. Advanced Functional Materials, 2020, 30, 1906661.	7.8	134
92	Revealing the anion intercalation behavior and surface evolution of graphite in dual-ion batteries via in situ AFM. Nano Research, 2020, 13, 412-418.	5.8	33
93	High-throughput HSE study on the doping effect in anatase TiO₂. Physical Chemistry Chemical Physics, 2020, 22, 39-53.	1.3	30
94	Revealing cooperative Li-ion migration in Li_{1+x}Al_xTi_{2â^'x}(PO₄)₃ solid state electrolytes with high Al doping. Journal of Materials Chemistry A, 2020, 8, 342-348.	5.2	41
95	The stability and reaction mechanism of a LiF/electrolyte interface: insight from density functional theory. Journal of Materials Chemistry A, 2020, 8, 2613-2617.	5.2	13
96	Enhanced thermoelectric performance through optimizing structure of anionic framework in AgCuTe-based materials. Chemical Engineering Journal, 2020, 386, 123917.	6.6	16
97	â€˜Structure unitsâ€™ as material genes in cathode materials for lithium-ion batteries. National Science Review, 2020, 7, 242-245.	4.6	31
98	Atomic-scale tuning of oxygen-doped Bi₂Te_{2.7}Se_{0.3} to simultaneously enhance the Seebeck coefficient and electrical conductivity. Nanoscale, 2020, 12, 1580-1588.	2.8	23
99	Quasi-solid single Zn-ion conductor with high conductivity enabling dendrite-free Zn metal anode. Energy Storage Materials, 2020, 27, 1-8.	9.5	91
100	Tuning Rate-Limiting Factors to Achieve Ultrahigh-Rate Solid-State Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 48677-48683.	4.0	15
101	Charge transport mechanisms in potassium superoxide. Physical Chemistry Chemical Physics, 2020, 22, 24480-24489.	1.3	6
102	Laser writing of the restacked titanium carbide MXene for high performance supercapacitors. Energy Storage Materials, 2020, 32, 418-424.	9.5	31
103	Achieving High Thermoelectric Performance by Introducing 3D Atomically Thin Conductive Framework in Porous Bi₂Te_{2.7}Se_{0.3}â€Carbon Nanotube Hybrids. Advanced Electronic Materials, 2020, 6, 2000292.	2.6	8
104	Enhanced long-term cyclability in Li-Rich layered oxides by electrochemically constructing a LixTM3-xO4-type spinel shell. Nano Energy, 2020, 77, 105188.	8.2	29
105	Double the Capacity of Manganese Spinel for Lithiumâ€Ion Storage by Suppression of Cooperative Jahnâ€“Teller Distortion. Advanced Energy Materials, 2020, 10, 2000363.	10.2	75
106	Optimizing the structure of layered cathode material for higher electrochemical performance by elucidating structural evolution during heat processing. Nano Energy, 2020, 78, 105194.	8.2	19
107	Ultrafast solid-liquid intercalation enabled by targeted microwave energy delivery. Science Advances, 2020, 6, .	4.7	12
108	Preintercalation Strategy in Manganese Oxides for Electrochemical Energy Storage: Review and Prospects. Advanced Materials, 2020, 32, e2002450.	11.1	127

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109	Tuning Single-Atom Catalysts of Nitrogen-Coordinated Transition Metals for Optimizing Oxygen Evolution and Reduction Reactions. Journal of Physical Chemistry C, 2020, 124, 13168-13176.	1.5	43
110	Intrinsic role of â†‘â†‘â†“â†“-type magnetic structure on magnetoelectric coupling in Y2NiMnO6. Applied Physics Letters, 2020, 116, 242901.	1.5	3
111	Harnessing the surface structure to enable high-performance cathode materials for lithium-ion batteries. Chemical Society Reviews, 2020, 49, 4667-4680.	18.7	88
112	Structure and performance of the LiFePO₄ cathode material: from the bulk to the surface. Nanoscale, 2020, 12, 15036-15044.	2.8	59
113	An Interfaceâ€Bridged Organicâ€“Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultraâ€Longâ€Life Aqueous Zinc Metal Anodes. Angewandte Chemie, 2020, 132, 16737-16744.	1.6	52
114	An Interfaceâ€Bridged Organicâ€“Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultraâ€Longâ€Life Aqueous Zinc Metal Anodes. Angewandte Chemie - International Edition, 2020, 59, 16594-16601.	7.2	270
115	Full Energy Range Resonant Inelastic X-ray Scattering of O₂ and CO₂: Direct Comparison with Oxygen Redox State in Batteries. Journal of Physical Chemistry Letters, 2020, 11, 2618-2623.	2.1	30
116	Strong influence of strain gradient on lithium diffusion: flexo-diffusion effect. Nanoscale, 2020, 12, 15175-15184.	2.8	9
117	Sub-5 nm monolayer germanium selenide (GeSe) MOSFETs: towards a high performance and stable device. Nanoscale, 2020, 12, 15443-15452.	2.8	27
118	Polymer matrix mediated solvation of LiNO3 in carbonate electrolytes for quasi-solid high-voltage lithium metal batteries. Nano Research, 2020, 13, 2431-2437.	5.8	31
119	Hybridizing Li@Mn6 and Sb@Ni6 superstructure units to tune the electrochemical performance of Li-rich layered oxides. Nano Energy, 2020, 77, 105157.	8.2	10
120	Ultrahigh Capacity of Monolayer Dumbbell C₄N as a Promising Anode Material for Lithium-Ion Battery. Journal of the Electrochemical Society, 2020, 167, 020538.	1.3	11
121	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. Science Advances, 2020, 6, eaaw3871.	4.7	82
122	Liâ€Ion Cooperative Migration and Oxyâ€Sulfide Synergistic Effect in Li₁₄P₂Ge₂S_{16â”6}_xO_x Solidâ€Stateâ€Electrolyte Enables Extraordinary Conductivity and High Stability. Small, 2020, 16, e1906374.	5.2	27
123	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. Electrochemical Energy Reviews, 2020, 3, 286-343.	13.1	52
124	Achieving Both High Ionic Conductivity and High Interfacial Stability with the Li2+xC1â€“xBxO3 Solid-State Electrolyte: Design from Theoretical Calculations. ACS Applied Materials & Interfaces, 2020, 12, 6007-6014.	4.0	17
125	Recent advances in zinc anodes for high-performance aqueous Zn-ion batteries. Nano Energy, 2020, 70, 104523.	8.2	466
126	Stable Interface between Lithium and Electrolyte Facilitated by a Nanocomposite Protective Layer. Small Methods, 2020, 4, 1900751.	4.6	33

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127	Corrosion-resistant plasma electrolytic oxidation coating modified by Zinc phosphate and self-healing mechanism in the salt-spray environment. Surface and Coatings Technology, 2020, 384, 125321.	2.2	24
128	Neural Network Force Fields for Metal Growth Based on Energy Decompositions. Journal of Physical Chemistry Letters, 2020, 11, 1364-1369.	2.1	7
129	The role of anions on the Helmholtz Plane for the solid-liquid interface in aqueous rechargeable lithium batteries. Nano Energy, 2020, 74, 104864.	8.2	27
130	Topology-Based Machine Learning Strategy for Cluster Structure Prediction. Journal of Physical Chemistry Letters, 2020, 11, 4392-4401.	2.1	25
131	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. Nano Energy, 2020, 74, 104831.	8.2	72
132	An Anionicâ€MOFâ€Based Bifunctional Separator for Regulating Lithium Deposition and Suppressing Polysulfides Shuttle in Liâ€“S Batteries. Small Methods, 2020, 4, 2000082.	4.6	110
133	Tunable p- and n-type Nb:TiO₂ and performance optimizing of self-powered Nb:TiO₂/CdS photodetectors. Semiconductor Science and Technology, 2020, 35, 075015.	1.0	3
134	Wannierâ€“Koopmans method calculations for transition metal oxide band gaps. Npj Computational Materials, 2020, 6, .	3.5	11
135	Holey graphite: A promising anode material with ultrahigh storage for lithium-ion battery. Electrochimica Acta, 2020, 346, 136244.	2.6	49
136	Monolayer Honeycomb Borophene: A Promising Anode Material with a Record Capacity for Lithium-Ion and Sodium-Ion Batteries. Journal of the Electrochemical Society, 2020, 167, 090527.	1.3	28
137	Highly Dispersed Cobalt Clusters in Nitrogenâ€Doped Porous Carbon Enable Multiple Effects for Highâ€Performance Liâ€“S Battery. Advanced Energy Materials, 2020, 10, 1903550.	10.2	192
138	Wavelength-Dependent Solar N ₂ Fixation into Ammonia and Nitrate in Pure Water. Research, 2020, 2020, 3750314.	2.8	30
139	Structural and optoelectrical properties of Nb-TiO2 films fabricated by low-energy magnetron sputtering and post-annealing. Surface and Coatings Technology, 2019, 365, 10-14.	2.2	6
140	Improved electrochemical performance of LiNi0.5Mn0.3Co0.2O₂ electrodes coated by atomic-layer-deposited Ta₂O₅. Functional Materials Letters, 2019, 12, 1850103.	0.7	7
141	Revealing magnetic ground state of a layered cathode material by muon spin relaxation and neutron scattering experiments. Applied Physics Letters, 2019, 114, 203901.	1.5	4
142	Anisotropic interfacial properties of monolayer GeSeâ€”metal contacts. Semiconductor Science and Technology, 2019, 34, 095021.	1.0	7
143	Revealing Insights into Li_xFePO₄ Nanocrystals with Magnetic Order at Room Temperature Resulting in Trapping of Li Ions. Journal of Physical Chemistry Letters, 2019, 10, 4794-4799.	2.1	7
144	Artificial Solid-Electrolyte Interface Facilitating Dendrite-Free Zinc Metal Anodes via Nanowetting Effect. ACS Applied Materials & Interfaces, 2019, 11, 32046-32051.	4.0	223

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145	Overwhelming the Performance of Single Atoms with Atomic Clusters for Platinum-Catalyzed Hydrogen Evolution. ACS Catalysis, 2019, 9, 8213-8223.	5.5	68
146	Tuning phase evolution of Î²-MnO2 during microwave hydrothermal synthesis for high-performance aqueous Zn ion battery. Nano Energy, 2019, 64, 103942.	8.2	154
147	Corrosion behavior of ZnO-reinforced coating on aluminum alloy prepared by plasma electrolytic oxidation. Surface and Coatings Technology, 2019, 374, 1015-1023.	2.2	20
148	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. Nature Communications, 2019, 10, 4721.	5.8	182
149	Alkali-Metal Anodes: From Lab to Market. Joule, 2019, 3, 2334-2363.	11.7	247
150	Cooling Induced Surface Reconstruction during Synthesis of Highâ€Ni Layered Oxides. Advanced Energy Materials, 2019, 9, 1901915.	10.2	34
151	Unravelling H⁺/Zn²⁺ Synergistic Intercalation in a Novel Phase of Manganese Oxide for Highâ€Performance Aqueous Rechargeable Battery. Small, 2019, 15, e1904545.	5.2	133
152	A new single-particle model to evaluate the Li-ions diffusion coefficients of LiMn1â^'xFe_xPO₄. Functional Materials Letters, 2019, 12, 1950071.	0.7	1
153	An Ordered Ni₆â€Ring Superstructure Enables a Highly Stable Sodium Oxide Cathode. Advanced Materials, 2019, 31, e1903483.	11.1	65
154	Synthetic control of Prussian blue derived nano-materials for energy storage and conversion application. Materials Today Energy, 2019, 14, 100332.	2.5	28
155	Electrochemical Nitrogen Reduction Reaction Performance of Single-Boron Catalysts Tuned by MXene Substrates. Journal of Physical Chemistry Letters, 2019, 10, 6984-6989.	2.1	120
156	Tiâ€Gradient Doping to Stabilize Layered Surface Structure for High Performance Highâ€Ni Oxide Cathode of Liâ€Ion Battery. Advanced Energy Materials, 2019, 9, 1901756.	10.2	169
157	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. Angewandte Chemie - International Edition, 2019, 58, 17849-17855.	7.2	117
158	Insight into Alâ€“Si interface of PERC by Kelvin probe force microscopy. Functional Materials Letters, 2019, 12, 1950078.	0.7	1
159	Rare-earth element doping in glass frit for improved performance in silicon solar cells. Functional Materials Letters, 2019, 12, 1950080.	0.7	3
160	DMAP-Induced Gallium Phosphites with Different Dimensionality. Crystal Growth and Design, 2019, 19, 6011-6016.	1.4	4
161	Oxygen vacancy-rich MoO_{3â^'x} nanobelts for photocatalytic N₂ reduction to NH₃ in pure water. Catalysis Science and Technology, 2019, 9, 803-810.	2.1	71
162	High throughput identification of Li ion diffusion pathways in typical solid state electrolytes and electrode materials by BV-Ewald method. Journal of Materials Chemistry A, 2019, 7, 1300-1306.	5.2	12

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163	Insights into Li/Ni ordering and surface reconstruction during synthesis of Ni-rich layered oxides. Journal of Materials Chemistry A, 2019, 7, 513-519.	5.2	92
164	Electron polarons in the subsurface layer of Mo/W-doped BiVO₄ surfaces. RSC Advances, 2019, 9, 819-823.	1.7	8
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