

Feng Pan

List of Publications by Year in descending order

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361
papers

22,232
citations

6254

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129
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365
all docs

365
docs citations

365
times ranked

17674
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.	14.6	29
2	Coilâ€œStretch Transition of Binder Chains Enabled by â€œNanoâ€œCombsâ€œto Facilitate Highly Stable SiO _x Anode. Energy and Environmental Materials, 2022, 5, 1310-1316.	12.8	4
3	Superior cycling stability of H _{0.64} V ₂ O ₅ •0.143H ₂ O in rechargeable aqueous zinc batteries. Science China Materials, 2022, 65, 78-84.	6.3	12
4	Advanced Electron Energy Loss Spectroscopy for Battery Studies. Advanced Functional Materials, 2022, 32, 2107190.	14.9	26
5	Highâ€œPerformance Si Photocathode Enabled by Spatial Decoupling Multifunctional Layers for Water Splitting. Advanced Functional Materials, 2022, 32, 2107164.	14.9	15
6	Breaking the energy density limit of LiNiO ₂ : Li ₂ NiO ₃ or Li ₂ NiO ₂ ?. Science China Materials, 2022, 65, 913-919.	6.3	6
7	Co ₄ Nâ€œDecorated 3D Woodâ€œDerived Carbon Host Enables Enhanced Cathodic Electrocatalysis and Homogeneous Lithiumâ€œSulfur Full Cells. Small, 2022, 18, e2105664.	10.0	34
8	Heavy Fluorination via Ion Exchange Achieves Highâ€œPerformance Liâ€œMnâ€œOâ€œF Layered Cathode for Liâ€œIon Batteries. Small, 2022, 18, e2103499.	10.0	10
9	Influence of electrolyte structural evolution on battery applications: Cationic aggregation from dilute to high concentration. Aggregate, 2022, 3, .	9.9	37
10	Li-rich channels as the material gene for facile lithium diffusion in halide solid electrolytes. EScience, 2022, 2, 79-86.	41.6	28
11	Defect-mediated Jahn-Teller effect in layered LiNiO ₂ . Science China Materials, 2022, 65, 1696-1700.	6.3	8
12	Thiotetrelates Li ₂ ZnXS ₄ (X = Si, Ge, and Sn) As Potential Li-Ion Solid-State Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 9203-9211.	8.0	2
13	Tailoring the coercive field in ferroelectric metal-free perovskites by hydrogen bonding. Nature Communications, 2022, 13, 794.	12.8	24
14	Graph-based discovery and analysis of atomic-scale one-dimensional materials. National Science Review, 2022, 9, .	9.5	5
15	Automating Materials Exploration with a Semantic Knowledge Graph for Liâ€œIon Battery Cathodes. Advanced Functional Materials, 2022, 32, .	14.9	16
16	Bioâ€œInspired Binder Design for a Robust Conductive Network in Siliconâ€œBased Anodes. Small Methods, 2022, 6, e2101591.	8.6	23
17	Enhanced Ferroelectric and Piezoelectric Properties in Graphene-Electroded Pb(Zr,Ti)O ₃ Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 17987-17994.	8.0	5
18	Tuning core-shell structural architecture for high-performance Li-Mn-O layered oxides. Nano Energy, 2022, 96, 107092.	16.0	5

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19	Scalable Lithiophilic/Sodiophilic Porous Buffer Layer Fabrication Enables Uniform Nucleation and Growth for Lithium/Sodium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	21
20	Surface Design with Cation and Anion Dual Gradient Stabilizes High-Voltage LiCoO_2 . <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	36
21	Delocalized Li@Mn_6 superstructure units enable layer stability of high-performance Mn-rich cathode materials. <i>CheM</i> , 2022, 8, 2163-2178.	11.7	19
22	Progress in interface structure and modification of zinc anode for aqueous batteries. <i>Nano Energy</i> , 2022, 98, 107333.	16.0	93
23	Origin and regulation of oxygen redox instability in high-voltage battery cathodes. <i>Nature Energy</i> , 2022, 7, 808-817.	39.5	55
24	Intercalation-driven ferroelectric-to-ferroelastic conversion in a layered hybrid perovskite crystal. <i>Nature Communications</i> , 2022, 13, .	12.8	27
25	Elastic Lattice Enabling Reversible Tetrahedral Li Storage Sites in a High-Capacity Manganese Oxide Cathode. <i>Advanced Materials</i> , 2022, 34, .	21.0	15
26	Strategies and characterization methods for achieving high performance PEO-based solid-state lithium-ion batteries. <i>Chemical Communications</i> , 2022, 58, 8182-8193.	4.1	24
27	Biomimetic Lipid-Bilayer Anode Protection for Long Lifetime Aqueous Zinc-Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
28	Origin of structural degradation in Li-rich layered oxide cathode. <i>Nature</i> , 2022, 606, 305-312.	27.8	206
29	Promoting the performances of P2-type sodium layered cathode by inducing Na site rearrangement. <i>Nano Energy</i> , 2022, 100, 107482.	16.0	25
30	The Interfacial Properties of Monolayer MX_2 -Metal Contacts. <i>Journal of Electronic Materials</i> , 2022, 51, 4824-4835.	2.2	3
31	Band-Structure Engineering of Copper Benzenehexathiol for Reversible Mechanochromism: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 11642-11651.	3.1	0
32	3D Hierarchical Graphene-CNT Anode for Sodium-Ion Batteries: a First-Principles Assessment. <i>Advanced Theory and Simulations</i> , 2022, 5, .	2.8	1
33	Boosting the Energy Density of Aqueous Batteries via Facile Grotthuss Proton Transport. <i>Angewandte Chemie</i> , 2021, 133, 4215-4220.	2.0	27
34	Structure and Properties of Prussian Blue Analogues in Energy Storage and Conversion Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2006970.	14.9	238
35	Valence state of transition metal center as an activity descriptor for CO_2 reduction on single atom catalysts. <i>Journal of Energy Chemistry</i> , 2021, 56, 444-448.	12.9	20
36	Tuning Zn^{2+} coordination environment to suppress dendrite formation for high-performance Zn-ion batteries. <i>Nano Energy</i> , 2021, 80, 105478.	16.0	318

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37	Optimizing Ion Pathway in Titanium Carbide MXene for Practical High-Rate Supercapacitor. Advanced Energy Materials, 2021, 11, 2003025.	19.5	152
38	Atomic/nano-scale in-situ probing the shuttling effect of redox mediator in Na-O ₂ batteries. Journal of Energy Chemistry, 2021, 56, 438-443.	12.9	7
39	Boosting the Energy Density of Aqueous Batteries via Facile Grotthuss Proton Transport. Angewandte Chemie - International Edition, 2021, 60, 4169-4174.	13.8	116
40	Deciphering the Oxygen Absorption Pre-edge: A Caveat on its Application for Probing Oxygen Redox Reactions in Batteries. Energy and Environmental Materials, 2021, 4, 246-254.	12.8	56
41	Co ₁₃ O ₈ metalloxocubes: a new class of perovskite-like neutral clusters with cubic aromaticity. National Science Review, 2021, 8, nwaa201.	9.5	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.	16.0	24
43	Improvement of alkali metal ion batteries via interlayer engineering of anodes: from graphite to graphene. Nanoscale, 2021, 13, 12521-12533.	5.6	14
44	Structure evolution and energy storage mechanism of Zn ₃ V ₃ O ₈ spinel in aqueous zinc batteries. Nanoscale, 2021, 13, 14408-14416.	5.6	17
45	Tuning the exposure of BiVO ₄ -{010} facets to enhance the N ₂ photofixation performance. RSC Advances, 2021, 11, 28908-28911.	3.6	3
46	Optimizing the sulfonic groups of a polymer to coat the zinc anode for dendrite suppression. Chemical Communications, 2021, 57, 5326-5329.	4.1	30
47	Interplay between multiple doping elements in high-voltage LiCoO ₂ . Journal of Materials Chemistry A, 2021, 9, 5702-5710.	10.3	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.	4.6	21
49	Simultaneously Regulating Uniform Zn ²⁺ Flux and Electron Conduction by MOF/rGO Interlayers for High-Performance Zn Anodes. Nano-Micro Letters, 2021, 13, 73.	27.0	106
50	Topological representations of crystalline compounds for the machine-learning prediction of materials properties. Npj Computational Materials, 2021, 7, .	8.7	36
51	Structural origin of the high-voltage instability of lithium cobalt oxide. Nature Nanotechnology, 2021, 16, 599-605.	31.5	148
52	Understanding Co roles towards developing Co-free Ni-rich cathodes for rechargeable batteries. Nature Energy, 2021, 6, 277-286.	39.5	255
53	A Programmable and Automated Platform for Integrated Synthesis and Evaluation of Water Electrolysis Catalysts. Advanced Materials Technologies, 2021, 6, 2001036.	5.8	3
54	Construction and Application of Materials Knowledge Graph Based on Author Disambiguation: Revisiting the Evolution of LiFePO ₄ . Advanced Energy Materials, 2021, 11, 2003580.	19.5	16

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55	Cycling mechanism of Li_2MnO_3 : Li ⁺ CO ₂ batteries and commonality on oxygen redox in cathode materials. <i>Joule</i> , 2021, 5, 975-997.	24.0	88
56	Interactions are important: Linking multi-physics mechanisms to the performance and degradation of solid-state batteries. <i>Materials Today</i> , 2021, 49, 145-183.	14.2	51
57	Schottky barrier heights in two-dimensional field-effect transistors: from theory to experiment. <i>Reports on Progress in Physics</i> , 2021, 84, 056501.	20.1	97
58	Constructing a Highly Efficient Aligned Conductive Network to Facilitate Depolarized High-Areal Capacity Electrodes in Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100601.	19.5	38
59	Progressive α -Layer to Hybrid Spinel/Layer-Phase Evolution with Proton and Zn^{2+} Co-intercalation to Enable High Performance of MnO_{2-x} -Based Aqueous Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22466-22474.	8.0	13
60	Twin boundary defect engineering improves lithium-ion diffusion for fast-charging spinel cathode materials. <i>Nature Communications</i> , 2021, 12, 3085.	12.8	77
61	The role of M@Ni_6 superstructure units in honeycomb-ordered layered oxides for Li/Na ion batteries. <i>Nano Energy</i> , 2021, 83, 105834.	16.0	15
62	Is graphite nanomesh a promising anode for the Na/K-Ions batteries?. <i>Carbon</i> , 2021, 176, 242-252.	10.3	28
63	Algebraic graph-assisted bidirectional transformers for molecular property prediction. <i>Nature Communications</i> , 2021, 12, 3521.	12.8	76
64	Oxygen-Deficient $\text{Î}^2\text{-MnO}_2$ @Graphene Oxide Cathode for High-Rate and Long-Life Aqueous Zinc Ion Batteries. <i>Nano-Micro Letters</i> , 2021, 13, 173.	27.0	89
65	Atomically dispersed S-Fe-N ₄ for fast kinetics sodium-sulfur batteries via a dual function mechanism. <i>Cell Reports Physical Science</i> , 2021, 2, 100531.	5.6	31
66	Modifying Li@Mn_6 Superstructure Units by Al Substitution to Enhance the Long-Cycle Performance of Co-Free Li-Rich Cathode. <i>Advanced Energy Materials</i> , 2021, 11, 2101962.	19.5	39
67	PIM-1 as a Multifunctional Framework to Enable High-Performance Solid-State Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104830.	14.9	47
68	Sub-10Ånm two-dimensional transistors: Theory and experiment. <i>Physics Reports</i> , 2021, 938, 1-72.	25.6	80
69	Constructing a Resilient Hierarchical Conductive Network to Promote Cycling Stability of SiO_x Anode via Binder Design. <i>Small</i> , 2021, 17, e2102256.	10.0	17
70	Synergistic Dissociation and Trapping Effect to Promote Li-Ion Conduction in Polymer Electrolytes via Oxygen Vacancies. <i>Small</i> , 2021, 17, e2102039.	10.0	38
71	Distinct Oxygen Redox Activities in $\text{Li}_{2-x}\text{MO}_3$ (M = Mn, Ru, Ir). <i>ACS Energy Letters</i> , 2021, 6, 3417-3424.	17.4	33
72	Recent Advances and Perspective on Electrochemical Ammonia Synthesis under Ambient Conditions. <i>Small Methods</i> , 2021, 5, e2100460.	8.6	33

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91	Efficient Ni ₂ Co ₄ P ₃ Nanowires Catalysts Enhance Ultrahigh-Loading Lithium-Sulfur Conversion in a Microreactor-Like Battery. Advanced Functional Materials, 2020, 30, 1906661.	14.9	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.	10.4	33
93	High-throughput HSE study on the doping effect in anatase TiO ₂ . Physical Chemistry Chemical Physics, 2020, 22, 39-53.	2.8	30
94	Revealing cooperative Li-ion migration in Li _{1+x} Al _x Ti ₂ (PO ₄) ₃ solid state electrolytes with high Al doping. Journal of Materials Chemistry A, 2020, 8, 342-348.	10.3	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.	10.3	13
96	Enhanced thermoelectric performance through optimizing structure of anionic framework in AgCuTe-based materials. Chemical Engineering Journal, 2020, 386, 123917.	12.7	16
97	“Structure units” as material genes in cathode materials for lithium-ion batteries. National Science Review, 2020, 7, 242-245.	9.5	31
98	Atomic-scale tuning of oxygen-doped Bi ₂ Te _{2.7} Se _{0.3} to simultaneously enhance the Seebeck coefficient and electrical conductivity. Nanoscale, 2020, 12, 1580-1588.	5.6	23
99	Quasi-solid single Zn-ion conductor with high conductivity enabling dendrite-free Zn metal anode. Energy Storage Materials, 2020, 27, 1-8.	18.0	91
100	Tuning Rate-Limiting Factors to Achieve Ultrahigh-Rate Solid-State Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 48677-48683.	8.0	15
101	Charge transport mechanisms in potassium superoxide. Physical Chemistry Chemical Physics, 2020, 22, 24480-24489.	2.8	6
102	Laser writing of the restacked titanium carbide MXene for high performance supercapacitors. Energy Storage Materials, 2020, 32, 418-424.	18.0	31
103	Achieving High Thermoelectric Performance by Introducing 3D Atomically Thin Conductive Framework in Porous Bi ₂ Te _{2.7} Se _{0.3} -Carbon Nanotube Hybrids. Advanced Electronic Materials, 2020, 6, 2000292.	5.1	8
104	Enhanced long-term cyclability in Li-Rich layered oxides by electrochemically constructing a Li _x TM ₃ -xO ₄ -type spinel shell. Nano Energy, 2020, 77, 105188.	16.0	29
105	Double the Capacity of Manganese Spinel for Lithium-Ion Storage by Suppression of Cooperative Jahn-Teller Distortion. Advanced Energy Materials, 2020, 10, 2000363.	19.5	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.	16.0	19
107	Ultrafast solid-liquid intercalation enabled by targeted microwave energy delivery. Science Advances, 2020, 6, .	10.3	12
108	Preintercalation Strategy in Manganese Oxides for Electrochemical Energy Storage: Review and Prospects. Advanced Materials, 2020, 32, e2002450.	21.0	127

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109	Tuning Single-Atom Catalysts of Nitrogen-Coordinated Transition Metals for Optimizing Oxygen Evolution and Reduction Reactions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13168-13176.	3.1	43
110	Intrinsic role of $\text{A}^{\text{B}}\text{A}^{\text{C}}\text{A}^{\text{D}}$ -type magnetic structure on magnetoelectric coupling in Y_2NiMnO_6 . <i>Applied Physics Letters</i> , 2020, 116, 242901.	3.3	3
111	Harnessing the surface structure to enable high-performance cathode materials for lithium-ion batteries. <i>Chemical Society Reviews</i> , 2020, 49, 4667-4680.	38.1	88
112	Structure and performance of the LiFePO_4 cathode material: from the bulk to the surface. <i>Nanoscale</i> , 2020, 12, 15036-15044.	5.6	59
113	An Interface-Bridged Organic-Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. <i>Angewandte Chemie</i> , 2020, 132, 16737-16744.	2.0	52
114	An Interface-Bridged Organic-Inorganic Layer that Suppresses Dendrite Formation and Side Reactions for Ultra-Long-Life Aqueous Zinc Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16594-16601.	13.8	270
115	Full Energy Range Resonant Inelastic X-ray Scattering of $\text{O}_{2\text{O}}$ and $\text{CO}_{2\text{O}}$: Direct Comparison with Oxygen Redox State in Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2618-2623.	4.6	30
116	Strong influence of strain gradient on lithium diffusion: flexo-diffusion effect. <i>Nanoscale</i> , 2020, 12, 15175-15184.	5.6	9
117	Sub-5 nm monolayer germanium selenide (GeSe) MOSFETs: towards a high performance and stable device. <i>Nanoscale</i> , 2020, 12, 15443-15452.	5.6	27
118	Polymer matrix mediated solvation of LiNO_3 in carbonate electrolytes for quasi-solid high-voltage lithium metal batteries. <i>Nano Research</i> , 2020, 13, 2431-2437.	10.4	31
119	Hybridizing Li@Mn_6 and Sb@Ni_6 superstructure units to tune the electrochemical performance of Li-rich layered oxides. <i>Nano Energy</i> , 2020, 77, 105157.	16.0	10
120	Ultrahigh Capacity of Monolayer Dumbbell $\text{C}_{4\text{N}}$ as a Promising Anode Material for Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020538.	2.9	11
121	Dissociate lattice oxygen redox reactions from capacity and voltage drops of battery electrodes. <i>Science Advances</i> , 2020, 6, eaaw3871.	10.3	82
122	Li^+ -ion Cooperative Migration and Oxygen-Sulfide Synergistic Effect in $\text{Li}_{14}\text{P}_2\text{Ge}_2\text{S}_{16}\text{O}_6$ Solid-State Electrolyte Enables Extraordinary Conductivity and High Stability. <i>Small</i> , 2020, 16, e1906374.	10.0	27
123	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 286-343.	25.5	52
124	Achieving Both High Ionic Conductivity and High Interfacial Stability with the $\text{Li}_{2+x}\text{Cl}_{1-x}\text{B}_x\text{O}_3$ Solid-State Electrolyte: Design from Theoretical Calculations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6007-6014.	8.0	17
125	Recent advances in zinc anodes for high-performance aqueous Zn-ion batteries. <i>Nano Energy</i> , 2020, 70, 104523.	16.0	466
126	Stable Interface between Lithium and Electrolyte Facilitated by a Nanocomposite Protective Layer. <i>Small Methods</i> , 2020, 4, 1900751.	8.6	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.	4.8	24
128	Neural Network Force Fields for Metal Growth Based on Energy Decompositions. Journal of Physical Chemistry Letters, 2020, 11, 1364-1369.	4.6	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.	16.0	27
130	Topology-Based Machine Learning Strategy for Cluster Structure Prediction. Journal of Physical Chemistry Letters, 2020, 11, 4392-4401.	4.6	25
131	Negligible voltage hysteresis with strong anionic redox in conventional battery electrode. Nano Energy, 2020, 74, 104831.	16.0	72
132	An Anionic MOF-Based Bifunctional Separator for Regulating Lithium Deposition and Suppressing Polysulfides Shuttle in Li-S Batteries. Small Methods, 2020, 4, 2000082.	8.6	110
133	Tunable p- and n-type Nb:TiO ₂ and performance optimizing of self-powered Nb:TiO ₂ /CdS photodetectors. Semiconductor Science and Technology, 2020, 35, 075015.	2.0	3
134	Wannier-Koopmans method calculations for transition metal oxide band gaps. Npj Computational Materials, 2020, 6, .	8.7	11
135	Holey graphite: A promising anode material with ultrahigh storage for lithium-ion battery. Electrochimica Acta, 2020, 346, 136244.	5.2	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.	2.9	28
137	Highly Dispersed Cobalt Clusters in Nitrogen-Doped Porous Carbon Enable Multiple Effects for High-Performance Li-S Battery. Advanced Energy Materials, 2020, 10, 1903550.	19.5	192
138	Wavelength-Dependent Solar N ₂ Fixation into Ammonia and Nitrate in Pure Water. Research, 2020, 2020, 3750314.	5.7	30
139	Structural and optoelectrical properties of Nb-TiO ₂ films fabricated by low-energy magnetron sputtering and post-annealing. Surface and Coatings Technology, 2019, 365, 10-14.	4.8	6
140	Improved electrochemical performance of LiNi _{0.5} Mn _{0.3} Co _{0.2} O ₂ electrodes coated by atomic-layer-deposited Ta ₂ O ₅ . Functional Materials Letters, 2019, 12, 1850103.	1.2	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.	3.3	4
142	Anisotropic interfacial properties of monolayer GeSe metal contacts. Semiconductor Science and Technology, 2019, 34, 095021.	2.0	7
143	Revealing Insights into Li _x FePO ₄ Nanocrystals with Magnetic Order at Room Temperature Resulting in Trapping of Li Ions. Journal of Physical Chemistry Letters, 2019, 10, 4794-4799.	4.6	7
144	Artificial Solid-Electrolyte Interface Facilitating Dendrite-Free Zinc Metal Anodes via Nanowetting Effect. ACS Applied Materials & Interfaces, 2019, 11, 32046-32051.	8.0	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.	11.2	68
146	Tuning phase evolution of Fe^{2+} -MnO ₂ during microwave hydrothermal synthesis for high-performance aqueous Zn ion battery. Nano Energy, 2019, 64, 103942.	16.0	154
147	Corrosion behavior of ZnO-reinforced coating on aluminum alloy prepared by plasma electrolytic oxidation. Surface and Coatings Technology, 2019, 374, 1015-1023.	4.8	20
148	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. Nature Communications, 2019, 10, 4721.	12.8	182
149	Alkali-Metal Anodes: From Lab to Market. Joule, 2019, 3, 2334-2363.	24.0	247
150	Cooling Induced Surface Reconstruction during Synthesis of High-Performance Layered Oxides. Advanced Energy Materials, 2019, 9, 1901915.	19.5	34
151	Unravelling H ⁺ /Zn ²⁺ Synergistic Intercalation in a Novel Phase of Manganese Oxide for High-Performance Aqueous Rechargeable Battery. Small, 2019, 15, e1904545.	10.0	133
152	A new single-particle model to evaluate the Li-ions diffusion coefficients of $\text{LiMn}_{1-x}\text{Fe}_x\text{PO}_4$. Functional Materials Letters, 2019, 12, 1950071.	1.2	1
153	An Ordered Ni ₆ Ring Superstructure Enables a Highly Stable Sodium Oxide Cathode. Advanced Materials, 2019, 31, e1903483.	21.0	65
154	Synthetic control of Prussian blue derived nano-materials for energy storage and conversion application. Materials Today Energy, 2019, 14, 100332.	4.7	28
155	Electrochemical Nitrogen Reduction Reaction Performance of Single-Boron Catalysts Tuned by MXene Substrates. Journal of Physical Chemistry Letters, 2019, 10, 6984-6989.	4.6	120
156	Ti Gradient Doping to Stabilize Layered Surface Structure for High Performance High-Ni Oxide Cathode of Li-ion Battery. Advanced Energy Materials, 2019, 9, 1901756.	19.5	169
157	Tuning the Electrochemical Performance of Titanium Carbide MXene by Controllable In Situ Anodic Oxidation. Angewandte Chemie - International Edition, 2019, 58, 17849-17855.	13.8	117
158	Insight into Al-Si interface of PERC by Kelvin probe force microscopy. Functional Materials Letters, 2019, 12, 1950078.	1.2	1
159	Rare-earth element doping in glass frit for improved performance in silicon solar cells. Functional Materials Letters, 2019, 12, 1950080.	1.2	3
160	DMAP-Induced Gallium Phosphites with Different Dimensionality. Crystal Growth and Design, 2019, 19, 6011-6016.	3.0	4
161	Oxygen vacancy-rich MoO _{3-x} nanobelts for photocatalytic N ₂ reduction to NH ₃ in pure water. Catalysis Science and Technology, 2019, 9, 803-810.	4.1	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.	10.3	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.	10.3	92
164	Electron polarons in the subsurface layer of Mo/W-doped BiVO ₄ surfaces. RSC Advances, 2019, 9, 819-823.	3.6	8
165	Tuning polaronic redox behavior in olivine phosphate. Physical Chemistry Chemical Physics, 2019, 21, 4578-4583.	2.8	12
166	Designing Flexible Lithium-Ion Batteries by Structural Engineering. ACS Energy Letters, 2019, 4, 690-701.	17.4	175
167	Role of Superexchange Interactions on the Arrangement of Fe and Mn in LiMn _x Fe _{1-x} PO ₄ . Journal of Physical Chemistry C, 2019, 123, 17002-17009.	3.1	6
168	Low-Temperature Catalytic Graphitization to Enhance Na-Ion Transportation in Carbon Electrodes. ACS Applied Materials & Interfaces, 2019, 11, 24164-24171.	8.0	27
169	Ni/Li Disorder in Layered Transition Metal Oxide: Electrochemical Impact, Origin, and Control. Accounts of Chemical Research, 2019, 52, 2201-2209.	15.6	315
170	Interfacial Properties of Monolayer Antimonene Devices. Physical Review Applied, 2019, 11, .	3.8	22
171	Excellent Device Performance of Sub-5 nm Monolayer Tellurene Transistors. Advanced Electronic Materials, 2019, 5, 1900226.	5.1	65
172	LiAlO ₈ as a potential coating material in lithium-ion batteries: a first principles study. Physical Chemistry Chemical Physics, 2019, 21, 13758-13765.	2.8	17
173	Cooperative transport enabling fast Li-ion diffusion in Thio-LISICON Li ₁₀ SiP ₂ S ₁₂ solid electrolyte. Nano Energy, 2019, 62, 844-852.	16.0	42
174	Tuning Li-enrichment in high-Ni layered oxide cathodes to optimize electrochemical performance for Li-ion battery. Nano Energy, 2019, 62, 709-717.	16.0	33
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