

Feiyu Kang

List of PR Articles by Year in descending order

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citing authors

#	ARTICLE	IF	PR CITATIONS
1	Non-sacrificial Additive Enables a Non-passivating Cathode Interface for 4.6 V Li LiCoO ₂ Batteries. <i>Advanced Energy Materials</i> , 2024, 14, .	22.6	20
2	Kirkendall effect-induced uniform stress distribution stabilizes nickel-rich layered oxide cathodes. <i>Nature Communications</i> , 2024, 15, .	13.9	72
3	A popcorn-inspired strategy for compounding graphene@NiFe ₂ O ₄ flexible films for strong electromagnetic interference shielding and absorption. <i>Nature Communications</i> , 2024, 15, .	13.9	37
4	3D Leaf-like Copper-Zinc Alloy Enables Dendrite-free Zinc Anode for Ultra-long Life Aqueous Zinc Batteries. <i>Small</i> , 2024, 20, .	11.6	16
5	Stable Cycling of Na Metal Batteries at Ultrahigh Capacity. <i>Advanced Materials</i> , 2024, 36, .	24.5	22
6	Ultra-stable Aqueous Zinc Anodes: Enabling High-performance Zinc-ion Batteries via a ZnSiF ₆ -derived Protective Interphase. <i>Advanced Science</i> , 2024, 11, .	12.7	22
7	A Comparative Investigation of Single Crystal and Polycrystalline Ni-rich NCMs as Cathodes for Lithium-ion Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	13.9	88
8	Electrolyte design principles for developing quasi-solid-state rechargeable halide-ion batteries. <i>Nature Communications</i> , 2023, 14, .	13.9	55
9	A dielectric electrolyte composite with high lithium-ion conductivity for high-voltage solid-state lithium metal batteries. <i>Nature Nanotechnology</i> , 2023, 18, 602-610.	33.5	479
10	A Dilute Fluorinated Phosphate Electrolyte Enables 4.9 V-class Potassium Ion Full Batteries. <i>Advanced Functional Materials</i> , 2023, 33, .	17.0	59
11	Designing phosphazene-derivative electrolyte matrices to enable high-voltage lithium metal batteries for extreme working conditions. <i>Nature Energy</i> , 2023, 8, 1023-1033.	50.9	190
12	Dimensionality, Function and Performance of Carbon Materials in Energy Storage Devices. <i>Advanced Energy Materials</i> , 2022, 12, .	22.6	200
13	Structural dimension gradient design of oxygen framework to suppress the voltage attenuation and hysteresis in lithium-rich materials. <i>Chemical Engineering Journal</i> , 2022, 427, 130723.	12.0	13
14	Exfoliated graphite blocks with resilience prepared by room temperature exfoliation and their application for oil-water separation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127724.	12.5	18
15	Revisiting the Roles of Natural Graphite in Ongoing Lithium-ion Batteries. <i>Advanced Materials</i> , 2022, 34, .	24.5	280
16	Constructing a highly efficient "solid-polymer-solid" elastic ion transport network in cathodes activates the room temperature performance of all-solid-state lithium batteries. <i>Energy and Environmental Science</i> , 2022, 15, 1503-1511.	30.9	83
17	Room-temperature extraction of individual elements from charged spent LiFePO ₄ batteries. <i>Rare Metals</i> , 2022, 41, 1595-1604.	11.7	55
18	Structural Insights into the Lithium Ion Storage Behaviors of Niobium Tungsten Double Oxides. <i>Chemistry of Materials</i> , 2022, 34, 388-398.	6.7	43

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19	Sieving carbons promise practical anodes with extensible low-potential plateaus for sodium batteries. National Science Review, 2022, 9, .	9.8	276
20	Rational Electrolyte Design toward Cyclability Remedy for Room-temperature Sodium-Sulfur Batteries. Angewandte Chemie, 2022, 134, .	1.4	5
21	Femtomolar-level Molecular Sensing of Monolayer Tungsten Diselenide Induced by Heteroatom Doping with Long-term Stability. Advanced Functional Materials, 2022, 32, .	17.0	46
22	Incoherent phonon transport dominates heat conduction across van der Waals superlattices. Applied Physics Letters, 2022, 121, .	3.0	6
23	Demonstrating U-shaped zinc deposition with 2D metal-organic framework nanoarrays for dendrite-free zinc batteries. Energy Storage Materials, 2022, 50, 641-647.	18.1	98
24	Charge storage mechanism of MOF-derived Mn ₂ O ₃ as high performance cathode of aqueous zinc-ion batteries. Journal of Energy Chemistry, 2021, 52, 277-283.	14.3	173
25	Full-cycle electrochemical-thermal coupling analysis for commercial lithium-ion batteries. Applied Thermal Engineering, 2021, 184, 116258.	6.6	59
26	A Highly Flexible and Lightweight MnO ₂ /Graphene Membrane for Superior Zinc-ion Batteries. Advanced Functional Materials, 2021, 31, .	17.0	227
27	SnSe nano-particles as advanced positive electrode materials for rechargeable aluminum-ion batteries. Chemical Engineering Journal, 2021, 403, 126377.	12.0	94
28	Î ² -MnO ₂ with proton conversion mechanism in rechargeable zinc ion battery. Journal of Energy Chemistry, 2021, 56, 365-373.	14.3	223
29	Recent Advances of Electroplating Additives Enabling Lithium Metal Anodes to Applicable Battery Techniques. Energy and Environmental Materials, 2021, 4, 284-292.	13.9	45
30	Environment-friendly preparation of exfoliated graphite and functional graphite sheets. Journal of Materiomics, 2021, 7, 136-145.	6.7	40
31	Mildly-expanded graphite with adjustable interlayer distance as high-performance anode for potassium-ion batteries. Carbon, 2021, 172, 200-206.	10.7	104
32	Thermal and gas purification of natural graphite for nuclear applications. Carbon, 2021, 173, 769-781.	10.7	56
33	Ultrasensitive molecular sensing of few-layer niobium diselenide. Journal of Materials Chemistry A, 2021, 9, 2725-2733.	9.3	41
34	Boosting zinc-ion intercalation in hydrated MoS ₂ nanosheets toward substantially improved performance. Energy Storage Materials, 2021, 35, 731-738.	18.1	155
35	Non-flammable Liquid and Quasi-solid Electrolytes toward Highly-safe Alkali Metal-based Batteries. Advanced Functional Materials, 2021, 31, .	17.0	242
36	Electrochemical deposition mechanism of sodium and potassium. Energy Storage Materials, 2021, 36, 91-98.	18.1	68

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37	Rechargeable aqueous zinc-ion batteries: Mechanism, design strategies and future perspectives. <i>Materials Today</i> , 2021, 42, 73-98.	14.0	252
38	Air stable and highly efficient Bi ³⁺ -doped Cs ₂ SnCl ₆ for blue light-emitting diodes. <i>RSC Advances</i> , 2021, 11, 26415-26420.	4.4	20
39	A multifunctional artificial protective layer for producing an ultra-stable lithium metal anode in a commercial carbonate electrolyte. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7667-7674.	9.3	41
40	A thin and high-strength composite polymer solid-state electrolyte with a highly efficient and uniform ion-transport network. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14344-14351.	9.3	52
41	Data-Driven Methods for Battery SOH Estimation: Survey and a Critical Analysis. <i>IEEE Access</i> , 2021, 9, 126903-126916.	3.1	140
42	Ultrahigh capacity and cyclability of dual-phase TiO ₂ nanowires with low working potential at room and subzero temperatures. <i>Journal of Materials Chemistry A</i> , 2021, 9, 9256-9265.	9.3	19
43	Pseudocapacitive porous hard carbon anode with controllable pyridinic nitrogen and thiophene sulfur co-doping for high-power dual-carbon sodium ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20483-20492.	9.3	34
44	Identical cut-off voltage versus equivalent capacity: an objective evaluation of the impact of dopants in layered oxide cathodes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11219-11227.	9.3	13
45	A highly concentrated electrolyte for high-efficiency potassium metal batteries. <i>Chemical Communications</i> , 2021, 57, 1034-1037.	3.4	57
46	A Fishingâ€Netâ€Like 3D Host for Robust and Ultrahighâ€Rate Lithium Metal Anodes. <i>Small</i> , 2021, 17, .	11.6	18
47	Highly Sensitive CuInS ₂ /ZnS Coreâ€Shell Quantum Dot Photodetectors. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1236-1243.	4.6	21
48	Two-Dimensional F-Ti ₃ C ₂ T _x @Ag Composite for an Extraordinary Long Cycle Lifetime with High Specific Capacity in an Aluminum Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11822-11832.	8.0	45
49	Selective Gas Permeation in Defect-Engineered Bilayer Graphene. <i>Nano Letters</i> , 2021, 21, 2183-2190.	8.7	25
50	Laminar Metal Foam: A Soft and Highly Thermally Conductive Thermal Interface Material with a Reliable Joint for Semiconductor Packaging. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 15791-15801.	8.0	15
51	Towards High-Energy and Anti-Self-Discharge Zn-Ion Hybrid Supercapacitors with New Understanding of the Electrochemistry. <i>Nano-Micro Letters</i> , 2021, 13, .	30.2	199
52	Multi-ion Strategy toward Highly Durable Calcium/Sodiumâ€Sulfur Hybrid Battery. <i>Nano Letters</i> , 2021, 21, 3548-3556.	8.7	22
53	Combining Multiple Methods for Recycling of Kish Graphite from Steelmaking Slags and Oil Sorption Performance of Kish-Based Expanded Graphite. <i>ACS Omega</i> , 2021, 6, 9868-9875.	4.3	8
54	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. <i>Chemical Reviews</i> , 2021, 121, 5986-6056.	52.7	328

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55	A compact Bi ₂ WO ₆ microflowers anode for potassium-ion storage: Taming a sequential phase evolution toward stable electrochemical cycling. Nano Energy, 2021, 82, 105784.	16.3	62
56	Nitrate Additives Coordinated with Crown Ether Stabilize Lithium Metal Anodes in Carbonate Electrolyte. Advanced Functional Materials, 2021, 31, .	17.0	92
57	Exploration of the form factors of turbulence kinetic energy transfer for shear exfoliation of graphene. Nanotechnology, 2021, 32, 265601.	2.7	2
58	Lamellar MXene Composite Aerogels with Sandwiched Carbon Nanotubes Enable Stable Lithium-Sulfur Batteries with a High Sulfur Loading. Advanced Functional Materials, 2021, 31, .	17.0	156
59	Oxidation State Modulation of Bismuth for Efficient Electrocatalytic Nitrogen Reduction to Ammonia. Advanced Functional Materials, 2021, 31, .	17.0	177
60	Single Atomic Pt on SrTiO ₃ Catalyst in Reverse Water Gas Shift Reactions. Catalysts, 2021, 11, 738.	3.8	19
61	Coordinated Adsorption and Catalytic Conversion of Polysulfides Enabled by Perovskite Bimetallic Hydroxide Nanocages for Lithium-Sulfur Batteries. Small, 2021, 17, .	11.6	36
62	Synergistic PF ₆ ⁻ and FSI ⁻ intercalation enables stable graphite cathode for potassium-based dual ion battery. Carbon, 2021, 178, 363-370.	10.7	45
63	Graphene quantum dots piecing together into graphene on nano Au for overall water splitting. Carbon, 2021, 178, 265-272.	10.7	29
64	Microstructure and thermal expansion behavior of natural microcrystalline graphite. Carbon, 2021, 177, 90-96.	10.7	36
65	Design Principle, Optimization Strategies, and Future Perspectives of Anode-Free Configurations for High-Energy Rechargeable Metal Batteries. Electrochemical Energy Reviews, 2021, 4, 601-631.	31.6	126
66	Progress and perspective of the cathode/electrolyte interface construction in all-solid-state lithium batteries. , 2021, 3, 866-894.		115
67	Progress and perspective of Li _{1-x} Al _x Ti ₂ PO ₄ ceramic electrolyte in lithium batteries. Informa-Materials, 2021, 3, 1195-1217.		115
68	Heterogeneous Degradation in Thick Nickel-Rich Cathodes During High-Temperature Storage and Mitigation of Thermal Instability by Regulating Cationic Disorder. Small, 2021, 17, .	11.6	14
69	Enhanced Electrode Matching Assisted by In Situ Etching and Co-Doping toward High-Rate Dual-Carbon Lithium-Ion Capacitors. ACS Sustainable Chemistry and Engineering, 2021, 9, 10054-10061.	6.9	22
70	Reduced thermal boundary conductance in GaN-based electronic devices introduced by metal bonding layer. Nano Research, 2021, 14, 3616-3620.	8.6	17
71	Rechargeable anion-shuttle batteries for low-cost energy storage. Chem, 2021, 7, 1993-2021.	16.6	138
72	Interface Improvement of Li _{6.4} La ₃ Zr _{1.6} Ta _{0.6} O ₁₂ @La ₂ Sn ₂ O ₉ and Cathode Transfer Printing Technology with Splendid Electrochemical Performance for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 39414-39423.	8.0	9

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73	The optical texture of PGA, Gilsocarbon, NBG-18, and IG-110 nuclear graphite. <i>Journal of Nuclear Materials</i> , 2021, 552, 153013.	2.9	30
74	Ultrafast presodiation of graphene anodes for high efficiency and high rate sodium-ion storage. <i>Informa Mater</i> , 2021, 3, 1445-1454.	20.9	66
75	Efficient electrocatalytic overall water splitting and structural evolution of cobalt iron selenide by one-step electrodeposition. <i>Journal of Energy Chemistry</i> , 2021, 60, 194-201.	14.3	96
76	A Highly Sensitive Electrochemical Glucose Sensor Based on Room Temperature Exfoliated Graphite-Derived Film Decorated with Dendritic Copper. <i>Materials</i> , 2021, 14, 5067.	2.9	7
77	Stable Interface Chemistry and Multiple Ion Transport of Composite Electrolyte Contribute to Ultra-Long Cycling Solid-State LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 24873-24880.	1.4	7
78	Synergistic effect of carbon fiber and alumina in improving the thermal conductivity of polydimethylsiloxane composite. <i>Thermochemica Acta</i> , 2021, 703, 178980.	3.4	30
79	Three-dimensional alloy interface between Li _{6.4} La ₃ Zr _{1.4} Ta _{0.6} O ₁₂ and Li metal to achieve excellent cycling stability of all-solid-state battery. <i>Journal of Power Sources</i> , 2021, 505, 230062.	7.9	75
80	Constructing a Reinforced and Gradient Solid Electrolyte Interphase on Si Nanoparticles by In Situ Thiol-ene Click Reaction for Long Cycling Lithium-ion Batteries. <i>Small</i> , 2021, 17, .	11.6	35
81	High-performance zinc-ion batteries enabled by electrochemically induced transformation of vanadium oxide cathodes. <i>Journal of Energy Chemistry</i> , 2021, 60, 233-240.	14.3	98
82	Ni single atoms anchored on nitrogen-doped graphene as H ₂ -Evolution cocatalyst of SrTiO ₃ (Al)/CoO for photocatalytic overall water splitting. <i>Carbon</i> , 2021, 183, 763-773.	10.7	45
83	A nanoscale interlayer void design enabling high-performance SnO ₂ -carbon anodes. <i>Carbon</i> , 2021, 183, 486-494.	10.7	21
84	Nitrogen-doped hollow graphite granule as anode materials for high-performance lithium-ion batteries. <i>Journal of Solid State Chemistry</i> , 2021, 303, 122500.	3.3	29
85	Promoting the reversibility of lithium ion/lithium metal hybrid graphite anode by regulating solid electrolyte interface. <i>Nano Energy</i> , 2021, 90, 106510.	16.3	46
86	Proton selective adsorption on Pt-Ni nano-thorn array electrodes for superior hydrogen evolution activity. <i>Energy and Environmental Science</i> , 2021, 14, 1594-1601.	30.9	125
87	A Protective Layer for Lithium Metal Anode: Why and How. <i>Small Methods</i> , 2021, 5, .	9.0	103
88	Recent Advances in Stability of Carbon-Based Anodes for Potassium-ion Batteries. <i>Batteries and Supercaps</i> , 2021, 4, 554-570.	4.3	35
89	Simple Synthesis of K _{0.5} VOPO ₄ ·1.5H ₂ O/Graphene Oxide Composite as a Cathode Material for Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 445-451.	5.4	20
90	Deeply Cyclable and Ultrahigh-Rate Lithium Metal Anodes Enabled by Coaxial Nanochamber Heterojunction on Carbon Nanofibers. <i>Advanced Science</i> , 2021, 8, .	12.7	21

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91	Building Ohmic Contact Interfaces toward Ultrastable Zn Metal Anodes. <i>Advanced Science</i> , 2021, 8, .	12.7	173
92	Na _{0.76} V ₆ O ₁₅ /Activated Carbon Hybrid Cathode for High-Performance Lithium-Ion Capacitors. <i>Materials</i> , 2021, 14, 122.	2.9	11
93	A free-standing 3D porous all-ceramic cathode for high capacity, long cycle life Li ⁺ O ₂ batteries. <i>Chemical Communications</i> , 2021, 57, 12792-12795.	3.4	1
94	In Situ Preparation of MXenes in Ambient-Temperature Organic Ionic Liquid Aluminum Batteries with Ultrastable Cycle Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55112-55122.	8.0	20
95	A non-flammable hydrous organic electrolyte for sustainable zinc batteries. <i>Nature Sustainability</i> , 2021, 5, 205-213.	21.7	617
96	A conductive-dielectric gradient framework for stable lithium metal anode. <i>Energy Storage Materials</i> , 2020, 24, 700-706.	18.1	128
97	In-situ polymerized cross-linked binder for cathode in lithium-sulfur batteries. <i>Chinese Chemical Letters</i> , 2020, 31, 570-574.	7.5	44
98	Unveiling the influence of electrode/electrolyte interface on the capacity fading for typical graphite-based potassium-ion batteries. <i>Energy Storage Materials</i> , 2020, 24, 319-328.	18.1	184
99	A Functionalized Carbon Surface for High-Performance Sodium-Ion Storage. <i>Small</i> , 2020, 16, .	11.6	70
100	Dual-ion hybrid supercapacitor: Integration of Li-ion hybrid supercapacitor and dual-ion battery realized by porous graphitic carbon. <i>Journal of Energy Chemistry</i> , 2020, 42, 180-184.	14.3	49
101	A biscuit-like separator enabling high performance lithium batteries by continuous and protected releasing of NO ₃ ⁻ in carbonate electrolyte. <i>Energy Storage Materials</i> , 2020, 24, 229-236.	18.1	44
102	Advanced Materials for Sodium-Ion Capacitors with Superior Energy-Power Properties: Progress and Perspectives. <i>Small</i> , 2020, 16, .	11.6	63
103	A dual-carbon-anchoring strategy to fabricate flexible LiMn ₂ O ₄ cathode for advanced lithium-ion batteries with high areal capacity. <i>Nano Energy</i> , 2020, 67, 104256.	16.3	67
104	Flexible and conductive scaffold-stabilized zinc metal anodes for ultralong-life zinc-ion batteries and zinc-ion hybrid capacitors. <i>Chemical Engineering Journal</i> , 2020, 384, 123355.	12.0	259
105	Facile method of synthesizing multilayer graphene capsuled sulfur nanoparticles for water treatment. <i>Applied Surface Science</i> , 2020, 502, 144194.	6.7	12
106	Restructured rimous copper foam as robust lithium host. <i>Energy Storage Materials</i> , 2020, 26, 250-259.	18.1	43
107	Exceptional performance of hierarchical Ni-Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. <i>Energy and Environmental Science</i> , 2020, 13, 86-95.	30.9	1,008
108	Defect engineering of vanadium pentoxide for efficient lithium-ion storage. <i>Electrochimica Acta</i> , 2020, 333, 135513.	5.3	16

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109	Mechanistic investigation of silver vanadate as superior cathode for high rate and durable zinc-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 659-666.	9.9	42
110	Ultrasensitive Organic-Modulated CsPbBr ₃ Quantum Dot Photodetectors via Fast Interfacial Charge Transfer. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901741.	4.1	23
111	Scalable synthesis of lotus-seed-pod-like Si/SiO _x @CNF: Applications in freestanding electrode and flexible full lithium-ion batteries. <i>Carbon</i> , 2020, 158, 163-171.	10.7	42
112	Efficient Construction of a C60 Interlayer for Mechanically Robust, Dendrite-free, and Ultrastable Solid-State Batteries. <i>IScience</i> , 2020, 23, 101636.	3.6	14
113	A fast screening framework for second-life batteries based on an improved bisecting K-means algorithm combined with fast pulse test. <i>Journal of Energy Storage</i> , 2020, 31, 101739.	8.8	65
114	High-Performance Aqueous Zinc-Ion Batteries Realized by MOF Materials. <i>Nano-Micro Letters</i> , 2020, 12, .	30.2	251
115	An "ice-melting" kinetic control strategy for highly photocatalytic organic nanocrystals. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25275-25282.	9.3	11
116	Hexagonal Composite CuSe@C as a Positive Electrode for High-Performance Aluminum Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11445-11455.	5.4	34
117	Suppressing Defects-Induced Nonradiative Recombination for Efficient Perovskite Solar Cells through Green Antisolvent Engineering. <i>Advanced Materials</i> , 2020, 32, .	24.5	190
118	Horizontal Stress Release for Protuberance-Free Li Metal Anode. <i>Advanced Functional Materials</i> , 2020, 30, .	17.0	31
119	3D porous Li ₃ VO ₄ @C composite anodes with ultra-high rate capacity for lithium-ion capacitors. <i>Electrochimica Acta</i> , 2020, 355, 136819.	5.3	29
120	Simultaneously Homogenized Electric Field and Ionic Flux for Reversible Ultrahigh-Areal-Capacity Li Deposition. <i>Nano Letters</i> , 2020, 20, 5662-5669.	8.7	43
121	Electrosprayed Robust Graphene Layer Constructing Ultrastable Electrode Interface for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37034-37046.	8.0	16
122	In Situ Observation of Interface Evolution on a Graphite Anode by Scanning Electrochemical Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37047-37053.	8.0	44
123	Highly Efficient Lead-Free (Bi,Ce)-Codoped Cs ₂ Ag _{0.4} Na _{0.6} InCl ₆ Double Perovskites for White Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2020, 32, 7814-7821.	6.7	150
124	Ultrasmall Blueshift of Near-Infrared Fluorescence in Phase-Stable Cs ₂ Ag _{0.4} Na _{0.6} InCl ₆ Double Perovskites. <i>Physical Review Applied</i> , 2020, 14, .	3.9	11
125	Suppressing the voltage decay of lithium-rich cathode for Li-ion batteries via Pt nanoparticles surface modification. <i>Ceramics International</i> , 2020, 46, 26564-26571.	5.4	9
126	A Graphite Intercalation Composite as the Anode for the Potassium-Ion Oxygen Battery in a Concentrated Ether-Based Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37027-37033.	8.0	10

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127	High-performance graphene/disodium terephthalate electrodes with ether electrolyte for exceptional cooperative sodiation/desodiation. <i>Nano Energy</i> , 2020, 77, 105203.	16.3	28
128	Facile Synthesis of Ant-Nest-Like Porous Duplex Copper as Deeply Cycling Host for Lithium Metal Anodes. <i>Small</i> , 2020, 16, .	11.6	46
129	A combination of hierarchical pore and buffering layer construction for ultrastable nanocluster Si/SiO _x anode. <i>Nano Research</i> , 2020, 13, 2987-2993.	8.6	32
130	In-situ construction of hierarchical cathode electrolyte interphase for high performance LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ /Li metal battery. <i>Nano Energy</i> , 2020, 78, 105282.	16.3	167
131	Progress and Perspective of All-Solid-State Lithium Batteries with High Performance at Room Temperature. <i>Energy & Fuels</i> , 2020, 34, 13456-13472.	5.2	68
132	Family of Magic-Sized Carbon Clusters on Transition Metal Substrates. <i>Advanced Functional Materials</i> , 2020, 30, 2006671.	17.0	2
133	Solid electrolyte interphase (SEI) in potassium ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 4583-4608.	30.9	292
134	Preparation and performance of electrochemical glucose sensors based on copper nanoparticles loaded on flexible graphite sheet. <i>New Carbon Materials</i> , 2020, 35, 410-419.	6.1	21
135	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. <i>Nature Communications</i> , 2020, 11, .	13.9	375
136	Integrated Structure of Cathode and Double-Layer Electrolyte for Highly Stable and Dendrite-Free All-Solid-State Li-Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56995-57002.	8.0	43
137	Interface metallization enabled an ultra-stable Fe ₂ O ₃ hierarchical anode for pseudocapacitors. <i>RSC Advances</i> , 2020, 10, 8636-8644.	4.4	6
138	Sacrificial Poly(propylene carbonate) Membrane for Dispersing Nanoparticles and Preparing Artificial Solid Electrolyte Interphase on Li Metal Anode. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27087-27094.	8.0	11
139	An asymmetric supercapacitor based on a NiO/Co ₃ O ₄ @NiCo cathode and an activated carbon anode. <i>New Carbon Materials</i> , 2020, 35, 112-120.	6.1	22
140	Facile synthesis of FeVO@C materials as high-performance composite cathode for lithium-ion hybrid capacitor. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155398.	6.0	16
141	Interfacial kinetics induced phase separation enhancing low-temperature performance of lithium-ion batteries. <i>Nano Energy</i> , 2020, 75, 104977.	16.3	16
142	Progress on Lithium Dendrite Suppression Strategies from the Interior to Exterior by Hierarchical Structure Designs. <i>Small</i> , 2020, 16, .	11.6	82
143	Hollow "graphene" microtubes using polyacrylonitrile nanofiber template and potential applications of field emission. <i>Carbon</i> , 2020, 167, 439-445.	10.7	4
144	Enhanced thermal conductivity of alumina and carbon fibre filled composites by 3-D printing. <i>Thermochimica Acta</i> , 2020, 690, 178649.	3.4	49

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145	A Triple-Gradient Host for Long Cycling Lithium Metal Anodes at Ultrahigh Current Density. <i>Small</i> , 2020, 16, .	11.6	19
146	Vertically aligned carbon nanotubes grown on reduced graphene oxide as high-performance thermal interface materials. <i>Journal of Materials Science</i> , 2020, 55, 9414-9424.	3.5	16
147	A Corrosion-Resistant and Dendrite-Free Zinc Metal Anode in Aqueous Systems. <i>Small</i> , 2020, 16, .	11.6	505
148	Toward real-time monitoring of lithium metal growth and dendrite formation surveillance for safe lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7090-7099.	9.3	13
149	A Simple Dual-Ion Doping Method for Stabilizing Li-Rich Materials and Suppressing Voltage Decay. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13996-14004.	8.0	67
150	Blow-spun N-doped carbon fiber based high performance flexible lithium ion capacitors. <i>RSC Advances</i> , 2020, 10, 9833-9839.	4.4	6
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