

Yuezhan Feng

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162
papers

6,621
citations

49
h-index

76
g-index

168
ext. papers

9,590
ext. citations

10.7
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L-index

#	Paper	IF	Citations
162	Sodium/Potassium-Ion Batteries: Boosting the Rate Capability and Cycle Life by Combining Morphology, Defect and Structure Engineering. <i>Advanced Materials</i> , 2020 , 32, e1904320	24	191
161	Promising TiCT MXene/Ni Chain Hybrid with Excellent Electromagnetic Wave Absorption and Shielding Capacity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25399-25409	9.5	183
160	Flexible, Robust, and Multifunctional Electromagnetic Interference Shielding Film with Alternating Cellulose Nanofiber and MXene Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 4895-4905	9.5	183
159	Superhydrophobic/Superoleophilic Polycarbonate/Carbon Nanotubes Porous Monolith for Selective Oil Adsorption from Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13747-13755	8.3	158
158	A Dual-Functional Conductive Framework Embedded with TiN-VN Heterostructures for Highly Efficient Polysulfide and Lithium Regulation toward Stable Li-S Full Batteries. <i>Advanced Materials</i> , 2020 , 32, e1905658	24	154
157	Three-Dimensional Ordered Macroporous Metal-Organic Framework Single Crystal-Derived Nitrogen-Doped Hierarchical Porous Carbon for High-Performance Potassium-Ion Batteries. <i>Nano Letters</i> , 2019 , 19, 4965-4973	11.5	152
156	Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2019 , 31, e1902228	24	149
155	Multifunctional Magnetic TiCT MXene/Graphene Aerogel with Superior Electromagnetic Wave Absorption Performance. <i>ACS Nano</i> , 2021 , 15, 6622-6632	16.7	144
154	Ultralight Layer-by-Layer Self-Assembled MoS ₂ -Polymer Modified Separator for Simultaneously Trapping Polysulfides and Suppressing Lithium Dendrites. <i>Advanced Energy Materials</i> , 2018 , 8, 1802430	21.8	135
153	Microporous polymer electrolyte based on PVDF/PEO star polymer blends for lithium ion batteries. <i>Journal of Membrane Science</i> , 2015 , 491, 82-89	9.6	134
152	Electronic Structure Regulation of Layered Vanadium Oxide via Interlayer Doping Strategy toward Superior High-Rate and Low-Temperature Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 1907684	15.6	131
151	Mechanistic Understanding of Metal Phosphide Host for Sulfur Cathode in High-Energy-Density Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2019 , 13, 8986-8996	16.7	129
150	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. <i>Journal of Hazardous Materials</i> , 2018 , 346, 140-151	12.8	126
149	Sodium-based batteries: from critical materials to battery systems. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9406-9431	13	125
148	Flexible MXene/Silver Nanowire-Based Transparent Conductive Film with Electromagnetic Interference Shielding and Electro-Photo-Thermal Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40859-40869	9.5	117
147	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al ₂ O ₃ composites by incorporating polymeric flame retardant-functionalized graphene. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13544-13556	13	114
146	Improving thermal and flame retardant properties of epoxy resin by functionalized graphene containing phosphorous, nitrogen and silicon elements. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 103, 74-83	8.4	114

145	The Promise and Challenge of Phosphorus-Based Composites as Anode Materials for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901414	24	105
144	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. <i>Composites Science and Technology</i> , 2014 , 105, 80-85	8.6	104
143	A flexible, self-healing and highly stretchable polymer electrolyte via quadruple hydrogen bonding for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11725-11733	13	102
142	Synergetic Improvement in Thermal Conductivity and Flame Retardancy of Epoxy/Silver Nanowires Composites by Incorporating "Branch-Like" Flame-Retardant Functionalized Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21628-21641	9.5	100
141	Enhanced Electromagnetic Wave-Absorbing Performance of Magnetic Nanoparticles-Anchored 2D TiCT MXene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2644-2654	9.5	98
140	Superhydrophobic and superoleophilic porous reduced graphene oxide/polycarbonate monoliths for high-efficiency oil/water separation. <i>Journal of Hazardous Materials</i> , 2018 , 344, 849-856	12.8	98
139	Metal Chalcogenides: Paving the Way for High-Performance Sodium/Potassium-Ion Batteries. <i>Small Methods</i> , 2020 , 4, 1900563	12.8	97
138	Electrolytes enriched by potassium perfluorinated sulfonates for lithium metal batteries. <i>Science Bulletin</i> , 2021 , 66, 685-693	10.6	89
137	Oxyvanite V3O5: A new intercalation-type anode for lithium-ion battery. <i>Information Materials</i> , 2019 , 1, 251	23.1	87
136	Cobalt-based electrode materials for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2019 , 370, 185-207	14.7	87
135	Regulating Lithium Nucleation and Deposition via MOF-Derived Co@C-Modified Carbon Cloth for Stable Li Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 1909159	15.6	87
134	Enhanced thermal conductivity and ideal dielectric properties of epoxy composites containing polymer modified hexagonal boron nitride. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 107, 657-664	8.4	85
133	A Mixed Lithium-Ion Conductive Li2S/Li2Se Protection Layer for Stable Lithium Metal Anode. <i>Advanced Functional Materials</i> , 2020 , 30, 2001607	15.6	83
132	Regeneration, degradation, and toxicity effect of MOFs: Opportunities and challenges. <i>Environmental Research</i> , 2019 , 176, 108488	7.9	78
131	Recent advances in cathode materials for rechargeable lithium-sulfur batteries. <i>Nanoscale</i> , 2019 , 11, 15418-15439	7.7	78
130	Optimizing the Void Size of Yolk-Shell Bi@Void@C Nanospheres for High-Power-Density Sodium-Ion Batteries. <i>Nano Letters</i> , 2020 , 20, 758-767	11.5	78
129	Flexible polyvinylidene fluoride film with alternating oriented graphene/Ni nanochains for electromagnetic interference shielding and thermal management. <i>Chemical Engineering Journal</i> , 2020 , 395, 125209	14.7	74
128	Multi-functional interface tailoring for enhancing thermal conductivity, flame retardancy and dynamic mechanical property of epoxy/Al2O3 composites. <i>Composites Science and Technology</i> , 2018 , 160, 42-49	8.6	74

127	Flexible Organic-Inorganic Hybrid Solid Electrolytes Formed via Thiol-Acrylate Photopolymerization. <i>Macromolecules</i> , 2017 , 50, 1970-1980	5.5	72
126	Fast electrochemical kinetics and strong polysulfide adsorption by a highly oriented MoS ₂ nanosheet@N-doped carbon interlayer for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7897-7906	13	68
125	Creating MXene/reduced graphene oxide hybrid towards highly fire safe thermoplastic polyurethane nanocomposites. <i>Composites Part B: Engineering</i> , 2020 , 203, 108486	10	68
124	Poly(ethylene oxide)-based composite polymer electrolytes embedding with ionic bond modified nanoparticles for all-solid-state lithium-ion battery. <i>Journal of Membrane Science</i> , 2019 , 575, 200-208	9.6	67
123	Multiple synergistic effects of graphene-based hybrid and hexagonal boron nitride in enhancing thermal conductivity and flame retardancy of epoxy. <i>Chemical Engineering Journal</i> , 2020 , 379, 122402	14.7	65
122	Highly thermally conductive flame retardant epoxy nanocomposites with multifunctional ionic liquid flame retardant-functionalized boron nitride nanosheets. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20500-20512	13	63
121	Enhancing thermal oxidation and fire resistance of reduced graphene oxide by phosphorus and nitrogen co-doping: Mechanism and kinetic analysis. <i>Carbon</i> , 2019 , 146, 650-659	10.4	60
120	Electrolytes Enriched by Crown Ethers for Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2002578	15.6	58
119	Freestanding CNT-modified graphitic carbon foam as a flexible anode for potassium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15774-15781	13	57
118	Necklace-like carbon nanofibers encapsulating V ₃ S ₄ microspheres for ultrafast and stable potassium-ion storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2618-2626	13	56
117	Thermal degradation mechanism and kinetics of polycarbonate/silica nanocomposites. <i>Polymer Degradation and Stability</i> , 2014 , 107, 129-138	4.7	55
116	An asymmetric sandwich structural cellulose-based film with self-supported MXene and AgNW layers for flexible electromagnetic interference shielding and thermal management. <i>Nanoscale</i> , 2021 , 13, 2378-2388	7.7	54
115	Lithium Difluorophosphate-Based Dual-Salt Low Concentration Electrolytes for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2001440	21.8	53
114	Stabilization Perspective on Metal Anodes for Aqueous Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2000962	21.8	51
113	A High-Capacity Ammonium Vanadate Cathode for Zinc-Ion Battery. <i>Nano-Micro Letters</i> , 2020 , 12, 67	19.5	48
112	SiO ₂ @MoS ₂ core-shell nanocomposite layers with high lithium ion diffusion as a triple polysulfide shield for high performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7644-7653 ¹³	13	47
111	Ultrathin, flexible transparent Joule heater with fast response time based on single-walled carbon nanotubes/poly(vinyl alcohol) film. <i>Composites Science and Technology</i> , 2019 , 183, 107796	8.6	47
110	Controlling the morphology, size and phase of Nb ₂ O ₅ crystals for high electrochemical performance. <i>Chinese Chemical Letters</i> , 2018 , 29, 1785-1790	8.1	44

109	Advantageous Functional Integration of Adsorption-Intercalation-Conversion Hybrid Mechanisms in 3D Flexible Nb ₂ O ₅ @Hard Carbon@MoS ₂ @Soft Carbon Fiber Paper Anodes for Ultrafast and Super-Stable Sodium Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1908665	15.6	43
108	Cellulose-based Ni-decorated graphene magnetic film for electromagnetic interference shielding. <i>Journal of Colloid and Interface Science</i> , 2021 , 583, 571-578	9.3	42
107	Topotactic Transformation Synthesis of 2D Ultrathin GeS Nanosheets toward High-Rate and High-Energy-Density Sodium-Ion Half/Full Batteries. <i>ACS Nano</i> , 2020 , 14, 531-540	16.7	41
106	Flexible and alternant-layered cellulose nanofiber/graphene film with superior thermal conductivity and efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020 , 139, 106134	8.4	41
105	Highly flame-retardant epoxy-based thermal conductive composites with functionalized boron nitride nanosheets exfoliated by one-step ball milling. <i>Chemical Engineering Journal</i> , 2021 , 407, 127099	14.7	38
104	Red Phosphorous-Derived Protective Layers with High Ionic Conductivity and Mechanical Strength on Dendrite-Free Sodium and Potassium Metal Anodes. <i>Advanced Energy Materials</i> , 2021 , 11, 2003381	21.8	37
103	Superhydrophobic and superelastic thermoplastic polyurethane/multiwalled carbon nanotubes porous monolith for durable oil/water separation. <i>Composites Communications</i> , 2020 , 21, 100378	6.7	34
102	Understanding the effect of interfacial engineering on interfacial thermal resistance in nacre-like cellulose nanofiber/graphene film. <i>Composites Science and Technology</i> , 2020 , 197, 108229	8.6	32
101	A Low-Temperature Sodium-Ion Full Battery: Superb Kinetics and Cycling Stability. <i>Advanced Functional Materials</i> , 2021 , 31, 2009458	15.6	32
100	Zinc/Nickel-Doped Hollow Core-Shell Co O Derived from a Metal-Organic Framework with High Capacity, Stability, and Rate Performance in Lithium/Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018 , 24, 1651-1656	4.8	32
99	Boosting the potassium storage performance of carbon anode via integration of adsorption-intercalation hybrid mechanisms. <i>Nano Energy</i> , 2020 , 73, 104807	17.1	31
98	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1204-1216	9.5	30
97	Multilayer polyethylene/ hexagonal boron nitride composites showing high neutron shielding efficiency and thermal conductivity. <i>Composites Communications</i> , 2020 , 19, 147-153	6.7	29
96	Transition metal carbides in electrocatalytic oxygen evolution reaction. <i>Chinese Chemical Letters</i> , 2021 , 32, 291-298	8.1	29
95	Flexible hydrophobic 2D Ti ₃ C ₂ Tx-based transparent conductive film with multifunctional self-cleaning, electromagnetic interference shielding and joule heating capacities. <i>Composites Science and Technology</i> , 2021 , 201, 108531	8.6	29
94	Co-doped graphene edge for enhanced N ₂ -to-NH ₃ conversion. <i>Journal of Energy Chemistry</i> , 2020 , 48, 322-327	12	28
93	Electrospun Sb ₂ Se ₃ @C nanofibers with excellent lithium storage properties. <i>Chinese Chemical Letters</i> , 2020 , 31, 909-914	8.1	27
92	Ultrafast Potassium Storage in F-Induced Ultra-High Edge-Defective Carbon Nanosheets. <i>ACS Nano</i> , 2021 , 15, 10217-10227	16.7	27

91	Scalable manufacturing of flexible, durable Ti3C2Tx MXene/Polyvinylidene fluoride film for multifunctional electromagnetic interference shielding and electro/photo-thermal conversion applications. <i>Composites Part B: Engineering</i> , 2021 , 217, 108902	10	27
90	UV-curable boron nitride nanosheet/ionic liquid-based crosslinked composite polymer electrolyte in lithium metal batteries. <i>Journal of Power Sources</i> , 2019 , 414, 283-292	8.9	26
89	Highly efficient MXene/Nano-Cu smoke suppressant towards reducing fire hazards of thermoplastic polyurethane. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106600	8.4	26
88	Hydrophobic polycarbonate monolith with mesoporous nest-like structure: an effective oil sorbent. <i>Materials Letters</i> , 2017 , 188, 201-204	3.3	25
87	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , 2021 , 4, 022004	4.2	24
86	Self-Formed Electronic/Ionic Conductive Fe S @ S @ 0.9Na SbS ?0.1NaI Composite for High-Performance Room-Temperature All-Solid-State Sodium-Sulfur Battery. <i>Small</i> , 2020 , 16, e2001574 ¹¹	11	23
85	Fe, V-co-doped C2N for electrocatalytic N2-to-NH3 conversion. <i>Journal of Energy Chemistry</i> , 2021 , 53, 303-308	12	23
84	RuO Particles Anchored on Brush-Like 3D Carbon Cloth Guide Homogenous Li/Na Nucleation Framework for Stable Li/Na Anode. <i>Small</i> , 2019 , 15, e1903725	11	21
83	A High-Temperature Na-Ion Battery: Boosting the Rate Capability and Cycle Life by Structure Engineering. <i>Small</i> , 2020 , 16, e1906669	11	21
82	A promising nanohybrid of silicon carbide nanowires scrolled by graphene oxide sheets with a synergistic effect for poly(propylene carbonate) nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22361-22371	13	20
81	Highly thermally conductive polyvinyl alcohol/boron nitride nanocomposites with interconnection oriented boron nitride nanoplatelets. <i>Composites Science and Technology</i> , 2021 , 201, 108521	8.6	20
80	Well-structured holographic polymer dispersed liquid crystals by employing acrylamide and doping ZnS nanoparticles. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 294-303	7.8	19
79	Carbon-based materials for all-solid-state zinc-air batteries 2021 , 3, 50-65		19
78	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41690-41698	9.5	19
77	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021 , 4, 1768-1800	12.7	18
76	Mesoporous silica nanoplates facilitating fast Li+ diffusion as effective polysulfide-trapping materials for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9110-9119	13	17
75	Superelastic and Durable Hierarchical Porous Thermoplastic Polyurethane Monolith with Excellent Hydrophobicity for Highly Efficient Oil/Water Separation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 20291-20299	3.9	17
74	Superhydrophobic cellulose acetate/multiwalled carbon nanotube monolith with fiber cluster network for selective oil/water separation. <i>Carbohydrate Polymers</i> , 2021 , 259, 117750	10.3	17

73	Effects of modified silica on morphology, mechanical property, and thermostability of injection-molded polycarbonate/silica nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2014 , 33, 911-922	2.9	16
72	Magnetic, superelastic and superhydrophobic porous thermoplastic polyurethane monolith with nano-Fe ₃ O ₄ coating for highly selective and easy-recycling oil/water separation. <i>Applied Surface Science</i> , 2021 , 535, 147690	6.7	16
71	Aramid nanofiber-derived carbon aerogel film with skin-core structure for high electromagnetic interference shielding and solar-thermal conversion. <i>Carbon</i> , 2021 , 184, 562-570	10.4	16
70	A facile strategy for functionalizing silica nanoparticles by polycarbonate degradation and its application in polymer nanocomposites. <i>Polymer Degradation and Stability</i> , 2015 , 119, 295-298	4.7	15
69	Cellulose acetate monolith with hierarchical micro/nano-porous structure showing superior hydrophobicity for oil/water separation. <i>Carbohydrate Polymers</i> , 2020 , 241, 116361	10.3	15
68	Research progress on hybrid organic/inorganic perovskites for photo-applications. <i>Chinese Chemical Letters</i> , 2020 , 31, 3055-3064	8.1	15
67	The Synergetic Effect of Lithium Bisoxalatodifluorophosphate and Fluoroethylene Carbonate on Dendrite Suppression for Fast Charging Lithium Metal Batteries. <i>Small</i> , 2020 , 16, e2001989	11	15
66	Gas sensing materials roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 , 33,	1.8	15
65	Fire/heat-resistant, anti-corrosion and folding Ti ₂ C ₃ T _x MXene/single-walled carbon nanotube films for extreme-environmental EMI shielding and solar-thermal conversion applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10425-10434	7.1	15
64	Phosphorous-Nitrogen flame retardants engineering MXene towards highly fire safe thermoplastic polyurethane. <i>Composites Communications</i> , 2022 , 29, 101055	6.7	14
63	High-efficiency electromagnetic interference shielding capability of magnetic Ti ₃ C ₂ T _x MXene/CNT composite film. <i>Journal of Materials Chemistry A</i> ,	13	14
62	Promoted CO ₂ electroreduction over indium-doped SnP ₃ : A computational study. <i>Journal of Energy Chemistry</i> , 2020 , 48, 1-6	12	14
61	Effects of selective distribution of alumina micro-particles on rheological, mechanical and thermal conductive properties of asphalt/SBS/alumina composites. <i>Composites Science and Technology</i> , 2020 , 186, 107917	8.6	14
60	Highly thermally conductive yet mechanically robust composites with nacre-mimetic structure prepared by evaporation-induced self-assembly approach. <i>Chemical Engineering Journal</i> , 2021 , 405, 126865	14.7	14
59	Boosting Sodium Storage in TiF ₃ /Carbon Core/Sheath Nanofibers through an Efficient Mixed-Conducting Network. <i>Advanced Energy Materials</i> , 2019 , 9, 1901470	21.8	13
58	Advances in K-Q (Q = S, Se and Se S) batteries. <i>Materials Today</i> , 2020 , 39, 9-22	21.8	13
57	Sandwiched cellulose nanofiber /boron nitride nanosheet /Ti ₃ C ₂ T _x MXene composite film with high electromagnetic shielding and thermal conductivity yet insulation performance. <i>Composites Science and Technology</i> , 2021 , 214, 108974	8.6	13
56	Architectural Engineering Achieves High-Performance Alloying Anodes for Lithium and Sodium Ion Batteries. <i>Small</i> , 2021 , 17, e2005248	11	12

55	Post-Lithium-Ion Battery Era: Recent Advances in Rechargeable Potassium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2021 , 27, 512-536	4.8	12
54	Layer-by-layer self-assembled covalent triazine framework/electrical conductive polymer functional separator for Li-S battery. <i>Chemical Engineering Journal</i> , 2021 , 404, 127044	14.7	12
53	Roadmap on Ionic Liquid Electrolytes for Energy Storage Devices. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 549-562	4.5	12
52	A Novel Protective Strategy on High-Voltage LiCoO ₂ Cathode for Fast Charging Applications: Li _{1.6} Mg _{1.6} Sn _{2.8} O ₈ Double Layer Structure via SnO ₂ Surface Modification. <i>Small Methods</i> , 2019 , 3, 1900355	12.8	11
51	Metal-organic framework derived amorphous VO coated FeO/C hierarchical nanospindle as anode material for superior lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 16901-16909	7.7	11
50	Mesoporous carbon nanosheet-assembled flowers towards superior potassium storage. <i>Chinese Chemical Letters</i> , 2021 , 32, 1161-1164	8.1	11
49	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. <i>Composites Part B: Engineering</i> , 2020 , 197, 108172	10	10
48	Bio-inspired stem-like composites based on highly aligned SiC nanowires. <i>Chemical Engineering Journal</i> , 2020 , 389, 123466	14.7	10
47	Thermal Degradation Behavior and Kinetics of 3D Porous Polycarbonate Monoliths. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800667	3.9	10
46	S-Doped Carbon-Coated FeS ₂ /C@C Nanorods for Potassium Storage. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 321-328	2.5	10
45	Noncovalent immobilization of pyrene-terminated hyperbranched triazole-based polymeric ionic liquid onto graphene for highly active and recyclable catalysis of CO ₂ /epoxide cycloaddition. <i>Catalysis Science and Technology</i> , 2017 , 7, 4173-4181	5.5	9
44	Unraveling the Intercorrelation Between Micro/Mesopores and K Migration Behavior in Hard Carbon.. <i>Small</i> , 2022 , e2107113	11	9
43	Edge-enrich N-doped graphitic carbon: Boosting rate capability and cyclability for potassium ion battery. <i>Chemical Engineering Journal</i> , 2022 , 432, 134321	14.7	9
42	2-(Trifluoroacetyl) thiophene as an electrolyte additive for high-voltage lithium-ion batteries using LiCoO ₂ cathode. <i>Journal of Materials Science and Technology</i> , 2020 , 55, 198-202	9.1	9
41	Self-Assembled VS ₄ Hierarchitectures with Enhanced Capacity and Stability for Sodium Storage. <i>Energy and Environmental Materials</i> ,	13	9
40	In situ construction of active interfaces towards improved high-rate performance of CoSe ₂ . <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14582-14592	13	9
39	Flexible Transparent Polypyrrole-Decorated MXene-Based Film with Excellent Photothermal Energy Conversion Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 8909-8918	9.5	9
38	Lithium Sulfur Batteries: Self-Supported and Flexible Sulfur Cathode Enabled via Synergistic Confinement for High-Energy-Density Lithium Sulfur Batteries (Adv. Mater. 33/2019). <i>Advanced Materials</i> , 2019 , 31, 1970236	24	8

37	MXene-Coated Wrinkled Fabrics for Stretchable and Multifunctional Electromagnetic Interference Shielding and Electro/Photo-Thermal Conversion Applications.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60478-60488	9.5	8
36	Flexible and robust porous thermoplastic polyurethane/reduced graphene oxide monolith with special wettability for continuous oil/water separation in harsh environment. <i>Separation and Purification Technology</i> , 2021 , 266, 118553	8.3	8
35	Two-Dimensional Germanium Sulfide Nanosheets as an Ultra-Stable and High Capacity Anode for Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2020 , 26, 6554-6560	4.8	7
34	Dependence of electromagnetic wave absorption properties on the topography of Ni anchoring on reduced graphene oxide. <i>Chinese Chemical Letters</i> , 2021 , 32, 870-874	8.1	7
33	CTF/MWCNT hybrid multi-functional separator as high-efficiency polysulfide tamer for high-performance LiS battery. <i>Electrochimica Acta</i> , 2021 , 367, 137418	6.7	7
32	Carbon welding on graphene skeleton for phase change composites with high thermal conductivity for solar-to-heat conversion. <i>Chemical Engineering Journal</i> , 2022 , 427, 131665	14.7	7
31	Low-voltage-driven and highly-diffractive holographic polymer dispersed liquid crystals with spherical morphology. <i>RSC Advances</i> , 2017 , 7, 51847-51857	3.7	6
30	Fabrication of hierarchically porous superhydrophilic polycaprolactone monolith based on nonsolvent-thermally induced phase separation.. <i>RSC Advances</i> , 2020 , 10, 26319-26325	3.7	6
29	Nacre-inspired Polymer Nanocomposites with High-performance and Multifunctional Properties Realized by a Facile Evaporation-induced Self-assembly Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19787-19798	8.3	6
28	Gallium-based anodes for alkali metal ion batteries. <i>Journal of Energy Chemistry</i> , 2021 , 55, 557-571	12	6
27	Dual-Redox Sites Guarantee High-Capacity Sodium Storage in Two-Dimension Conjugated Metal-Organic Frameworks. <i>Advanced Functional Materials</i> , 2112072	15.6	6
26	VOPO ₄ ·2H ₂ O Nanosheet Cathode for Enhanced Sodium Storage. <i>Frontiers in Energy Research</i> , 2020 , 8,	3.8	5
25	Vanadate-based electrodes for rechargeable batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1585-1609	7.8	5
24	Flexible, thermostable and flame-resistant epoxy-based thermally conductive layered films with aligned ionic liquid-wrapped boron nitride nanosheets via cyclic layer-by-layer blade-casting. <i>Chemical Engineering Journal</i> , 2022 , 437, 135482	14.7	5
23	Simultaneously reinforcing and toughening poly(lactic acid) by incorporating reactive melt-functionalized silica nanoparticles. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48834	2.9	4
22	Superior potassium and zinc storage in K-doped VO ₂ (B) spheres. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 3132-3138	7.8	3
21	High-performance and robust dual-function electrochromic device for dynamic thermal regulation and electromagnetic interference shielding. <i>Chemical Engineering Journal</i> , 2021 , 422, 130064	14.7	3
20	Wood-Derived, Vertically Aligned, and Densely Interconnected 3D SiC Frameworks for Anisotropically Highly Thermoconductive Polymer Composites.. <i>Advanced Science</i> , 2022 , e2103592	13.6	2

19	Interfacial Kinetics Regulation of MoS ₂ /Cu ₂ Se Nanosheets toward Superior High-Rate and Ultralong-Lifespan Sodium-Ion Half/Full Batteries. <i>ChemSusChem</i> , 2021 , 14, 5304-5310	8.3	2
18	Fast and Reversible Na Intercalation in Nsutite-Type VO ₂ Hierarchitectures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100191	4.6	2
17	Induced assembly of polystyrene composites for simultaneously improving flame retardant and electromagnetic shielding properties. <i>Polymers for Advanced Technologies</i> , 2021 , 32, 4251	3.2	2
16	Enhanced interfacial and mechanical property of biodegradable poly(butylene succinate) film via introducing ultrahigh molecular weight polyethylene shish-kebab fibers. <i>Materials Research Express</i> , 2019 , 6, 125374	1.7	2
15	Black phosphorene-cellulose nanofiber hybrid paper as flexible heat spreader. <i>2D Materials</i> , 2021 , 8, 045029	5.9	2
14	Recent progress in electrochemical performance of carbon-based anodes for potassium-ion batteries based on first principles calculations. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
13	Efficient thermal management of lithium-sulfur batteries by highly thermally conductive LBL-assembled composite separators. <i>Electrochimica Acta</i> , 2022 , 407, 139807	6.7	1
12	Fe ₂ P nanoparticles-doped carbon nanofibers with enhanced electrons transfer capability as a self-supporting anode for potassium-ion battery. <i>Electrochimica Acta</i> , 2022 , 404, 139759	6.7	1
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9	Potassium-Ion Batteries: The Promise and Challenge of Phosphorus-Based Composites as Anode Materials for Potassium-Ion Batteries (Adv. Mater. 50/2019). <i>Advanced Materials</i> , 2019 , 31, 1970354	24	1
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7	Fine-tuning the electromagnetic parameters of 2D conjugated metal-organic framework semiconductors for anti-electromagnetic interference in the Ku band. <i>Chemical Engineering Journal</i> , 2022 , 444, 136574	14.7	1
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4	A double crosslinking MXene/cellulose nanofiber layered film for improving mechanical properties and stable electromagnetic interference shielding performance. <i>Journal of Materials Science and Technology</i> , 2022 , 129, 127-134	9.1	0
3	Removal of Metal Ions in Phosphoric Acid by Electro-Electrodialysis with Cross-Linked Anion-Exchange Membranes.. <i>ACS Omega</i> , 2021 , 6, 32417-32430	3.9	
2	NASICON Electrodes: A Low-Temperature Sodium-Ion Full Battery: Superb Kinetics and Cycling Stability (Adv. Funct. Mater. 11/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170070	15.6	

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