Feiyu Kang

List of Publications by Year in descending order

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844 papers	67,192 citations	434 131 h-index	1823 210 g-index
854 all docs	854 docs citations	854 times ranked	42927 citing authors

#	Article	IF	Citations
1	Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 933-935.	7.2	1,437
2	Holey Graphitic Carbon Nitride Nanosheets with Carbon Vacancies for Highly Improved Photocatalytic Hydrogen Production. Advanced Functional Materials, 2015, 25, 6885-6892.	7.8	898
3	Twinborn TiO₂â€“TiN heterostructures enabling smooth trappingâ€“diffusionâ€“conversion of polysulfides towards ultralong life lithiumâ€“sulfur batteries. Energy and Environmental Science, 2017, 10, 1694-1703.	15.6	884
4	Chemical Dealloying Derived 3D Porous Current Collector for Li Metal Anodes. Advanced Materials, 2016, 28, 6932-6939.	11.1	751
5	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. Energy and Environmental Science, 2018, 11, 941-951.	15.6	731
6	Exceptional performance of hierarchical Niâ€“Fe oxyhydroxide@NiFe alloy nanowire array electrocatalysts for large current density water splitting. Energy and Environmental Science, 2020, 13, 86-95.	15.6	698
7	Carbon Nanofibers Prepared via Electrospinning. Advanced Materials, 2012, 24, 2547-2566.	11.1	686
8	Dendriteâ€Free, Highâ€Rate, Longâ€Life Lithium Metal Batteries with a 3D Crossâ€Linked Network Polymer Electrolyte. Advanced Materials, 2017, 29, 1604460.	11.1	604
9	Recent advances in electrospun carbon nanofibers and their application in electrochemical energy storage. Progress in Materials Science, 2016, 76, 319-380.	16.0	579
10	Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. Energy Storage Materials, 2018, 13, 96-102.	9.5	568
11	Macroscopic 3D Porous Graphitic Carbon Nitride Monolith for Enhanced Photocatalytic Hydrogen Evolution. Advanced Materials, 2015, 27, 4634-4639.	11.1	567
12	Towards ultrahigh volumetric capacitance: graphene derived highly dense but porous carbons for supercapacitors. Scientific Reports, 2013, 3, 2975.	1.6	541
13	Flexible electrodes and supercapacitors for wearable energy storage: a review by category. Journal of Materials Chemistry A, 2016, 4, 4659-4685.	5.2	493
14	Engineering of MnO2-based nanocomposites for high-performance supercapacitors. Progress in Materials Science, 2015, 74, 51-124.	16.0	449
15	A honeycomb-like porous carbon derived from pomelo peel for use in high-performance supercapacitors. Nanoscale, 2014, 6, 13831-13837.	2.8	434
16	Adsorption of Lead(II) Ions from Aqueous Solution on Low-Temperature Exfoliated Graphene Nanosheets. Langmuir, 2011, 27, 7558-7562.	1.6	407
17	Achieving superb sodium storage performance on carbon anodes through an ether-derived solid electrolyte interphase. Energy and Environmental Science, 2017, 10, 370-376.	15.6	395
18	Renewing Functionalized Graphene as Electrodes for Highâ€Performance Supercapacitors. Advanced Materials, 2012, 24, 6348-6355.	11.1	394

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19	Review of Recent Development of In Situ/Operando Characterization Techniques for Lithium Battery Research. Advanced Materials, 2019, 31, e1806620.	11.1	390
20	Low Resistanceâ€“Integrated Allâ€Solidâ€State Battery Achieved by Li₇La₃Zr₂O₁₂ Nanowire Upgrading Polyethylene Oxide (PEO) Composite Electrolyte and PEO Cathode Binder. Advanced Functional Materials, 2019, 29, 1805301.	7.8	390
21	Fast Gelation of Ti₃C₂T_x MXene Initiated by Metal Ions. Advanced Materials, 2019, 31, e1902432.	11.1	389
22	3D Porous Copper Skeleton Supported Zinc Anode toward High Capacity and Long Cycle Life Zinc Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 3364-3371.	3.2	387
23	Novel gel polymer electrolyte for high-performance lithiumâ€“sulfur batteries. Nano Energy, 2016, 22, 278-289.	8.2	382
24	Graphene-based materials for electrochemical energy storage devices: Opportunities and challenges. Energy Storage Materials, 2016, 2, 107-138.	9.5	371
25	A room-temperature sodiumâ€“sulfur battery with high capacity and stable cycling performance. Nature Communications, 2018, 9, 3870.	5.8	367
26	Challenges and perspectives of garnet solid electrolytes for all solid-state lithium batteries. Journal of Power Sources, 2018, 389, 120-134.	4.0	359
27	Openâ€Ended, Nâ€Doped Carbon Nanotubeâ€“Graphene Hybrid Nanostructures as Highâ€Performance Catalyst Support. Advanced Functional Materials, 2011, 21, 999-1006.	7.8	358
28	A Corrosionâ€Resistant and Dendriteâ€Free Zinc Metal Anode in Aqueous Systems. Small, 2020, 16, e2001736.	5.2	354
29	Two-Dimensional Materials for Thermal Management Applications. Joule, 2018, 2, 442-463.	11.7	353
30	Propelling polysulfides transformation for high-rate and long-life lithiumâ€“sulfur batteries. Nano Energy, 2017, 33, 306-312.	8.2	352
31	Ultra-thick graphene bulk supercapacitor electrodes for compact energy storage. Energy and Environmental Science, 2016, 9, 3135-3142.	15.6	347
32	SiO₂ Hollow Nanosphereâ€Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. Advanced Energy Materials, 2016, 6, 1502214.	10.2	346
33	Compact 3D Copper with Uniform Porous Structure Derived by Electrochemical Dealloying as Dendriteâ€Free Lithium Metal Anode Current Collector. Advanced Energy Materials, 2018, 8, 1800266.	10.2	336
34	Zinc ion stabilized MnO₂ nanospheres for high capacity and long lifespan aqueous zinc-ion batteries. Journal of Materials Chemistry A, 2019, 7, 13727-13735.	5.2	333
35	Manganese Sesquioxide as Cathode Material for Multivalent Zinc Ion Battery with High Capacity and Long Cycle Life. Electrochimica Acta, 2017, 229, 422-428.	2.6	329
36	Facile synthesis of Li4Ti5O12/C composite with super rate performance. Energy and Environmental Science, 2012, 5, 9595.	15.6	323

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37	Two-Dimensional MoS₂ Confined Co(OH)₂ Electrocatalysts for Hydrogen Evolution in Alkaline Electrolytes. ACS Nano, 2018, 12, 4565-4573.	7.3	302
38	In Situ Synthesis of a Hierarchical Allâ€Solidâ€State Electrolyte Based on Nitrile Materials for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500353.	10.2	300
39	A high-performance asymmetric supercapacitor based on carbon and carbonâ€“MnO2 nanofiber electrodes. Carbon, 2013, 61, 190-199.	5.4	299
40	Carbon electrodes for capacitive deionization. Journal of Materials Chemistry A, 2017, 5, 470-496.	5.2	295
41	Deepâ€Eutecticâ€Solventâ€Based Selfâ€Healing Polymer Electrolyte for Safe and Longâ€Life Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 9134-9142.	7.2	292
42	Highly Flexible Graphene/Mn₃O₄ Nanocomposite Membrane as Advanced Anodes for Li-Ion Batteries. ACS Nano, 2016, 10, 6227-6234.	7.3	291
43	Evolution of the electrochemical interface in sodium ion batteries with ether electrolytes. Nature Communications, 2019, 10, 725.	5.8	289
44	Gassing in Li4Ti5O12-based batteries and its remedy. Scientific Reports, 2012, 2, 913.	1.6	284
45	A non-flammable hydrous organic electrolyte for sustainable zinc batteries. Nature Sustainability, 2022, 5, 205-213.	11.5	277
46	Flexible and planar graphene conductive additives for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 9644.	6.7	276
47	Vertically Aligned Lithiophilic CuO Nanosheets on a Cu Collector to Stabilize Lithium Deposition for Lithium Metal Batteries. Advanced Energy Materials, 2018, 8, 1703404.	10.2	274
48	Bidirectional Catalysts for Liquidâ€“Solid Redox Conversion in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2020, 32, e2000315.	11.1	274
49	Electrochemically induced spinel-layered phase transition of Mn3O4 in high performance neutral aqueous rechargeable zinc battery. Electrochimica Acta, 2018, 259, 170-178.	2.6	269
50	A reduced graphene oxide/mixed-valence manganese oxide composite electrode for tailorable and surface mountable supercapacitors with high capacitance and super-long life. Energy and Environmental Science, 2017, 10, 941-949.	15.6	253
51	Directing lateral growth of lithium dendrites in micro-compartmented anode arrays for safe lithium metal batteries. Nature Communications, 2018, 9, 464.	5.8	250
52	Scalable fabrication of MnO₂ nanostructure deposited on free-standing Ni nanocone arrays for ultrathin, flexible, high-performance micro-supercapacitor. Energy and Environmental Science, 2014, 7, 2652-2659.	15.6	247
53	Preparation and Characterization of MnO2/acid-treated CNT Nanocomposites for Energy Storage with Zinc Ions. Electrochimica Acta, 2014, 133, 254-261.	2.6	246
54	Graphene derivatives: graphane, fluorographene, graphene oxide, graphyne and graphdiyne. Journal of Materials Chemistry A, 2014, 2, 13193-13206.	5.2	237

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55	Recent progress on manganese dioxide based supercapacitors. Journal of Materials Research, 2010, 25, 1421-1432.	1.2	236
56	Capacitive deionization of NaCl solutions using carbon nanotube sponge electrodes. Journal of Materials Chemistry, 2011, 21, 18295.	6.7	230
57	Caging tin oxide in three-dimensional graphene networks for superior volumetric lithium storage. Nature Communications, 2018, 9, 402.	5.8	227
58	Interface chemistry of an amide electrolyte for highly reversible lithium metal batteries. Nature Communications, 2020, 11, 4188.	5.8	226
59	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li4Ti5O12 anodes for Li ion batteries. Journal of Power Sources, 2013, 239, 269-276.	4.0	223
60	Multivalent ion storage towards high-performance aqueous zinc-ion hybrid supercapacitors. Energy Storage Materials, 2019, 20, 335-342.	9.5	221
61	Optimized Catalytic WS₂â€“WO₃ Heterostructure Design for Accelerated Polysulfide Conversion in Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2000091.	10.2	221
62	Simultaneous Production and Functionalization of Boron Nitride Nanosheets by Sugarâ€Assisted Mechanochemical Exfoliation. Advanced Materials, 2019, 31, e1804810.	11.1	220
63	Breathable and Wearable Energy Storage Based on Highly Flexible Paper Electrodes. Advanced Materials, 2016, 28, 9313-9319.	11.1	219
64	Cross-linked beta alumina nanowires with compact gel polymer electrolyte coating for ultra-stable sodium metal battery. Nature Communications, 2019, 10, 4244.	5.8	219
65	A sheet-like porous carbon for high-rate supercapacitors produced by the carbonization of an eggplant. Carbon, 2015, 92, 11-14.	5.4	217
66	Coâ€“Fe Mixed Metal Phosphide Nanocubes with Highly Interconnected-Pore Architecture as an Efficient Polysulfide Mediator for Lithiumâ€“Sulfur Batteries. ACS Nano, 2019, 13, 4731-4741.	7.3	212
67	A Metalâ€Free Supercapacitor Electrode Material with a Record High Volumetric Capacitance over 800 F cm^{â^'3}. Advanced Materials, 2015, 27, 8082-8087.	11.1	211
68	In situ synthesis of hierarchical poly(ionic liquid)-based solid electrolytes for high-safety lithium-ion and sodium-ion batteries. Nano Energy, 2017, 33, 45-54.	8.2	205
69	Cation exchange formation of prussian blue analogue submicroboxes for high-performance Na-ion hybrid supercapacitors. Nano Energy, 2017, 39, 647-653.	8.2	204
70	A novel network composite cathode of LiFePO4/multiwalled carbon nanotubes with high rate capability for lithium ion batteries. Electrochemistry Communications, 2007, 9, 663-666.	2.3	201
71	Ultrafine TiO₂ Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithiumâ€“Sulfur Battery. ACS Applied Materials & Interfaces, 2016, 8, 23105-23113.	4.0	200
72	Rational synthesis of MnO2/conducting polypyrrole@carbon nanofiber triaxial nano-cables for high-performance supercapacitors. Journal of Materials Chemistry, 2012, 22, 16943.	6.7	195

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73	Progress and Perspective of Solidâ€State Lithiumâ€“Sulfur Batteries. Advanced Functional Materials, 2018, 28, 1707570.	7.8	194
74	Suppressing Selfâ€Discharge and Shuttle Effect of Lithiumâ€“Sulfur Batteries with V₂O₅â€Decorated Carbon Nanofiber Interlayer. Small, 2017, 13, 1602539.	5.2	190
75	Graphene sheets from worm-like exfoliated graphite. Journal of Materials Chemistry, 2009, 19, 3367.	6.7	189
76	Constructing Multifunctional Interphase between Li_{1.4}Al_{0.4}Ti_{1.6}(PO₄)₃ and Li Metal by Magnetron Sputtering for Highly Stable Solidâ€State Lithium Metal Batteries. Advanced Energy Materials, 2019, 9, 1901604.	10.2	189
77	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. Nano Energy, 2016, 30, 900-908.	8.2	188
78	Flexible and conductive scaffold-stabilized zinc metal anodes for ultralong-life zinc-ion batteries and zinc-ion hybrid capacitors. Chemical Engineering Journal, 2020, 384, 123355.	6.6	188
79	Solid electrolyte interphase (SEI) in potassium ion batteries. Energy and Environmental Science, 2020, 13, 4583-4608.	15.6	187
80	Simultaneous Production of Highâ€Performance Flexible Textile Electrodes and Fiber Electrodes for Wearable Energy Storage. Advanced Materials, 2016, 28, 1675-1681.	11.1	186
81	Could graphene construct an effective conducting network in a high-power lithium ion battery?. Nano Energy, 2012, 1, 429-439.	8.2	185
82	Directly Drawing Self-Assembled, Porous, and Monolithic Graphene Fiber from Chemical Vapor Deposition Grown Graphene Film and Its Electrochemical Properties. Langmuir, 2011, 27, 12164-12171.	1.6	179
83	Dense coating of Li4Ti5O12 and graphene mixture on the separator to produce long cycle life of lithium-sulfur battery. Nano Energy, 2016, 30, 1-8.	8.2	179
84	Ultrasensitive gas detection of large-area boron-doped graphene. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14527-14532.	3.3	177
85	Graphene/polyaniline woven fabric composite films as flexible supercapacitor electrodes. Nanoscale, 2015, 7, 7318-7322.	2.8	175
86	Coaxial carbon nanofibers/MnO2 nanocomposites as freestanding electrodes for high-performance electrochemical capacitors. Electrochimica Acta, 2011, 56, 9240-9247.	2.6	173
87	Carbon nanotubes filled with ferromagnetic alloy nanowires: Lightweight and wide-band microwave absorber. Applied Physics Letters, 2008, 93, .	1.5	172
88	Carbon nanosheets as the electrode material in supercapacitors. Journal of Power Sources, 2009, 194, 1208-1212.	4.0	172
89	Effect of temperature on the pseudo-capacitive behavior of freestanding MnO2@carbon nanofibers composites electrodes in mild electrolyte. Journal of Power Sources, 2013, 224, 86-92.	4.0	171
90	An Ultralong, Highly Oriented Nickelâ€Nanowireâ€Array Electrode Scaffold for Highâ€Performance Compressible Pseudocapacitors. Advanced Materials, 2016, 28, 4105-4110.	11.1	171

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91	Rechargeable Aluminum-Ion Battery Based on MoS₂ Microsphere Cathode. ACS Applied Materials & Interfaces, 2018, 10, 9451-9459.	4.0	171
92	A robust strategy for crafting monodisperse Li4Ti5O12 nanospheres as superior rate anode for lithium ion batteries. Nano Energy, 2016, 21, 133-144.	8.2	168
93	Enhanced efficiency of graphene/silicon heterojunction solar cells by molecular doping. Journal of Materials Chemistry A, 2013, 1, 5736.	5.2	166
94	Novel Insights into Energy Storage Mechanism of Aqueous Rechargeable Zn/MnO2 Batteries with Participation of Mn2+. Nano-Micro Letters, 2019, 11, 49.	14.4	166
95	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. Energy and Environmental Science, 2012, 5, 9895.	15.6	165
96	Interfacial synthesis of mesoporous MnO2/polyaniline hollow spheres and their application in electrochemical capacitors. Journal of Power Sources, 2012, 204, 236-243.	4.0	165
97	Nitrogen-enriched electrospun porous carbon nanofiber networks as high-performance free-standing electrode materials. Journal of Materials Chemistry A, 2014, 2, 19678-19684.	5.2	165
98	Polymorph Evolution Mechanisms and Regulation Strategies of Lithium Metal Anode under Multiphysical Fields. Chemical Reviews, 2021, 121, 5986-6056.	23.0	165
99	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1439-A1444.	1.3	164
100	Functional Carbons Remedy the Shuttling of Polysulfides in Lithiumâ€“Sulfur Batteries: Confining, Trapping, Blocking, and Breaking up. Advanced Functional Materials, 2018, 28, 1800508.	7.8	164
101	Co-electro-deposition of the MnO2â€“PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432.	5.2	163
102	Commercial carbon molecular sieves as a high performance anode for sodium-ion batteries. Energy Storage Materials, 2016, 3, 18-23.	9.5	163
103	All-solid-state flexible planar lithium ion micro-capacitors. Energy and Environmental Science, 2018, 11, 2001-2009.	15.6	160
104	Direct Growth of Carbon Nanotubes Doped with Single Atomic Feâ€“N₄ Active Sites and Neighboring Graphitic Nitrogen for Efficient and Stable Oxygen Reduction Electrocatalysis. Advanced Functional Materials, 2019, 29, 1906174.	7.8	159
105	Rechargeable aqueous zinc-ion batteries: Mechanism, design strategies and future perspectives. Materials Today, 2021, 42, 73-98.	8.3	159
106	A review of gassing behavior in Li₄Ti₅O₁₂-based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381.	5.2	157
107	Ultrahigh-rate and high-density lithium-ion capacitors through hybriding nitrogen-enriched hierarchical porous carbon cathode with prelithiated microcrystalline graphite anode. Nano Energy, 2015, 15, 43-53.	8.2	156
108	Biomass Organs Control the Porosity of Their Pyrolyzed Carbon. Advanced Functional Materials, 2017, 27, 1604687.	7.8	154

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109	Preparation and characterization of manganese dioxides with nano-sized tunnel structures for zinc ion storage. Journal of Physics and Chemistry of Solids, 2012, 73, 1487-1491.	1.9	153
110	A Highly Flexible and Lightweight MnO₂/Graphene Membrane for Superior Zincâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2007397.	7.8	153
111	Porphyrin-Based Nanostructures for Photocatalytic Applications. Nanomaterials, 2016, 6, 51.	1.9	150
112	Electrosprayed silicon-embedded porous carbon microspheres as lithium-ion battery anodes with exceptional rate capacities. Carbon, 2018, 127, 424-431.	5.4	150
113	Ethers Illume Sodiumâ€Based Battery Chemistry: Uniqueness, Surprise, and Challenges. Advanced Energy Materials, 2018, 8, 1801361.	10.2	149
114	NaCl-templated synthesis of hierarchical porous carbon with extremely large specific surface area and improved graphitization degree for high energy density lithium ion capacitors. Journal of Materials Chemistry A, 2018, 6, 17057-17066.	5.2	149
115	The high performances of SiO 2 /Al 2 O 3 -coated electrospun polyimide fibrous separator for lithium-ion battery. Journal of Membrane Science, 2015, 493, 1-7.	4.1	148
116	Investigation of zinc ion storage of transition metal oxides, sulfides, and borides in zinc ion battery systems. Chemical Communications, 2017, 53, 6872-6874.	2.2	147
117	Redoxâ€Active Organic Sodium Anthraquinoneâ€2â€Sulfonate (AQS) Anchored on Reduced Graphene Oxide for Highâ€Performance Supercapacitors. Advanced Energy Materials, 2018, 8, 1802088.	10.2	147
118	Glucose-Promoted Zn-Based Metalâ€“Organic Framework/Graphene Oxide Composites for Hydrogen Sulfide Removal. ACS Applied Materials & Interfaces, 2012, 4, 4942-4947.	4.0	144
119	Raman Evidence for Late Stage Disproportionation in a Liâ€“O₂ Battery. Journal of Physical Chemistry Letters, 2014, 5, 2705-2710.	2.1	144
120	A high performance Li-ion capacitor constructed with Li4Ti5O12/C hybrid and porous graphene macroform. Journal of Power Sources, 2015, 282, 174-178.	4.0	144
121	Multilayered silicon embedded porous carbon/graphene hybrid film as a high performance anode. Carbon, 2015, 84, 434-443.	5.4	144
122	Layered vanadium oxides with proton and zinc ion insertion for zinc ion batteries. Electrochimica Acta, 2019, 320, 134565.	2.6	143
123	Carbon coating to suppress the reduction decomposition of electrolyte on the Li4Ti5O12 electrode. Journal of Power Sources, 2012, 202, 253-261.	4.0	142
124	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li₄Ti₅O₁₂ Spheres of Densely Packed Nanocrystallites. Chemistry of Materials, 2015, 27, 5647-5656.	3.2	142
125	An in-plane heterostructure of graphene and titanium carbide for efficient polysulfide confinement. Nano Energy, 2017, 39, 291-296.	8.2	142
126	Microwaveâ€“hydrothermal synthesis of birnessite-type MnO2 nanospheres as supercapacitor electrode materials. Journal of Power Sources, 2012, 198, 428-431.	4.0	141

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127	An interwoven MoO₃@CNT scaffold interlayer for high-performance lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2018, 6, 8612-8619.	5.2	141
128	High-Performance Aqueous Zinc-Ion Batteries Realized by MOF Materials. Nano-Micro Letters, 2020, 12, 152.	14.4	141
129	Unveiling the influence of electrode/electrolyte interface on the capacity fading for typical graphite-based potassium-ion batteries. Energy Storage Materials, 2020, 24, 319-328.	9.5	140
130	A high-performance three-dimensional micro supercapacitor based on self-supporting composite materials. Journal of Power Sources, 2011, 196, 10465-10471.	4.0	139
131	Flexible asymmetric supercapacitors based on ultrathin two-dimensional nanosheets with outstanding electrochemical performance and aesthetic property. Scientific Reports, 2013, 3, 2598.	1.6	139
132	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. CheM, 2020, 6, 902-918.	5.8	137
133	Future paper based printed circuit boards for green electronics: fabrication and life cycle assessment. Energy and Environmental Science, 2014, 7, 3674-3682.	15.6	136
134	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. Nano Energy, 2016, 26, 276-285.	8.2	135
135	Correlation Between Atomic Structure and Electrochemical Performance of Anodes Made from Electrospun Carbon Nanofiber Films. Advanced Energy Materials, 2014, 4, 1301448.	10.2	133
136	Electrochemical activation of commercial MnO microsized particles for high-performance aqueous zinc-ion batteries. Journal of Power Sources, 2019, 438, 226951.	4.0	133
137	Porous graphitic carbons prepared by combining chemical activation with catalytic graphitization. Carbon, 2011, 49, 725-729.	5.4	131
138	Fe3O4 nanoparticles encapsulated in electrospun porous carbon fibers with a compact shell as high-performance anode for lithium ion batteries. Carbon, 2015, 87, 347-356.	5.4	131
139	A three-dimensional multilayer graphene web for polymer nanocomposites with exceptional transport properties and fracture resistance. Materials Horizons, 2018, 5, 275-284.	6.4	129
140	Electrochemical properties of nanosized hydrous manganese dioxide synthesized by a self-reacting microemulsion method. Journal of Power Sources, 2008, 180, 664-670.	4.0	128
141	Enhanced thermoelectric performance of Ca-doped BiCuSeO in a wide temperature range. Journal of Materials Chemistry A, 2013, 1, 11942.	5.2	128
142	One-pot self-assembly of graphene/carbon nanotube/sulfur hybrid with three dimensionally interconnected structure for lithiumâ€“sulfur batteries. Journal of Power Sources, 2015, 295, 182-189.	4.0	128
143	A honeycomb-cobweb inspired hierarchical coreâ€“shell structure design for electrospun silicon/carbon fibers as lithium-ion battery anodes. Carbon, 2016, 98, 582-591.	5.4	128
144	Hierarchical MoS₂/Carbon microspheres as long-life and high-rate anodes for sodium-ion batteries. Journal of Materials Chemistry A, 2018, 6, 5668-5677.	5.2	128

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145	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. ACS Nano, 2015, 9, 5636-5645.	7.3	127
146	Nonâ€Flammable Liquid and Quasiâ€Solid Electrolytes toward Highlyâ€Safe Alkali Metalâ€Based Batteries. Advanced Functional Materials, 2021, 31, 2008644.	7.8	127
147	Inâ€...Situ Construction of an Ultraâ€Stable Conductive Composite Interface for Highâ€Voltage Allâ€Solidâ€State Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 11784-11788.	7.2	126
148	Secondary batteries with multivalent ions for energy storage. Scientific Reports, 2015, 5, 14120.	1.6	125
149	A high-energy-density micro supercapacitor of asymmetric MnO2â€“carbon configuration by using micro-fabrication technologies. Journal of Power Sources, 2013, 234, 302-309.	4.0	124
150	Pseudocapacitive anthraquinone modified with reduced graphene oxide for flexible symmetric all-solid-state supercapacitors. Carbon, 2018, 127, 459-468.	5.4	123
151	Suppressing Defectsâ€Induced Nonradiative Recombination for Efficient Perovskite Solar Cells through Green Antisolvent Engineering. Advanced Materials, 2020, 32, e2003965.	11.1	123
152	Graphite blocks with preferred orientation and high thermal conductivity. Carbon, 2012, 50, 175-182.	5.4	122
153	Enhanced mid-temperature thermoelectric performance of textured SnSe polycrystals made of solvothermally synthesized powders. Journal of Materials Chemistry C, 2016, 4, 2047-2055.	2.7	122
154	Multi hierarchical construction-induced superior capacitive performances of flexible electrodes for wearable energy storage. Nano Energy, 2017, 34, 242-248.	8.2	122
155	Preparation and properties of phenolic resin-based activated carbon spheres with controlled pore size distribution. Carbon, 2002, 40, 911-916.	5.4	121
156	N and S co-doped porous carbon spheres prepared using <scp>l</scp>-cysteine as a dual functional agent for high-performance lithiumâ€“sulfur batteries. Chemical Communications, 2015, 51, 17720-17723.	2.2	121
157	Flexible, temperature-tolerant supercapacitor based on hybrid carbon film electrodes. Nano Energy, 2017, 40, 224-232.	8.2	121
158	Selfâ€Healing Materials for Energyâ€Storage Devices. Advanced Functional Materials, 2020, 30, 1909912.	7.8	121
159	Porous carbon nanofiber paper as an effective interlayer for high-performance lithium-sulfur batteries. Electrochimica Acta, 2015, 168, 271-276.	2.6	120
160	Sulfur confined in nitrogen-doped microporous carbon used in a carbonate-based electrolyte for long-life, safe lithium-sulfur batteries. Carbon, 2016, 109, 1-6.	5.4	119
161	Capillary Encapsulation of Metallic Potassium in Aligned Carbon Nanotubes for Use as Stable Potassium Metal Anodes. Advanced Energy Materials, 2019, 9, 1901427.	10.2	118
162	Fe₃O₄-Decorated Porous Graphene Interlayer for High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 26264-26273.	4.0	117

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163	The effect of graphene wrapping on the performance of LiFePO4 for a lithium ion battery. Carbon, 2013, 57, 530-533.	5.4	115
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