Li-Zhen Fan

List of Publications by Citations

201 papers	14,186 citations	68 h-index	113 g-index
209 ext. papers	16,677 ext. citations	9.5 avg, IF	7.32 L-index

#	Paper	IF	Citations
201	Nitrogen-containing hydrothermal carbons with superior performance in supercapacitors. *Advanced Materials*, **2010**, 22, 5202-6	24	789
200	PEO/garnet composite electrolytes for solid-state lithium batteries: From "ceramic-in-polymer" to "polymer-in-ceramic" *Nano Energy*, **2018**, 46, 176-184	17.1	672
199	Prestoring Lithium into Stable 3D Nickel Foam Host as Dendrite-Free Lithium Metal Anode. *Advanced Functional Materials*, **2017**, 27, 1700348	15.6	500
198	Flexible graphene/polymer composite films in sandwich structures for effective electromagnetic interference shielding. *Carbon*, **2014**, 66, 67-76	10.4	409
197	High Electroactivity of Polyaniline in Supercapacitors by Using a Hierarchically Porous Carbon Monolith as a Support. *Advanced Functional Materials*, **2007**, 17, 3083-3087	15.6	389
196	High-performance polypyrrole electrode materials for redox supercapacitors. *Electrochemistry Communications*, **2006**, 8, 937-940	5.1	354
195	Two-dimensional Ti3C2 as anode material for Li-ion batteries. *Electrochemistry Communications*, **2014**, 47, 80-83	5.1	316
194	Highly ordered porous carbon/wax composites for effective electromagnetic attenuation and shielding. *Carbon*, **2014**, 77, 130-142	10.4	242
193	Solid Garnet Batteries. *Joule*, **2019**, 3, 1190-1199	27.8	230
192	3D Flexible Carbon Felt Host for Highly Stable Sodium Metal Anodes. *Advanced Energy Materials*, **2018**, 8, 1702764	21.8	207
191	3D Fiber-Network-Reinforced Bicontinuous Composite Solid Electrolyte for Dendrite-free Lithium Metal Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 7069-7078	9.5	200
190	Significant improvement of electrochemical properties of AlF3-coated LiNi0.5Co0.2Mn0.3O2 cathode materials. *Electrochimica Acta*, **2012**, 63, 363-368	6.7	187
189	Solid polymer electrolyte soft interface layer with 3D lithium anode for all-solid-state lithium batteries. *Energy Storage Materials*, **2019**, 17, 309-316	19.4	185
188	Enhanced ionic conductivity of polymer electrolytes containing nanocomposite SiO2 particles. *Physical Review Letters*, **2003**, 91, 266104	7.4	185
187	Polyaniline nanofibers obtained by interfacial polymerization for high-rate supercapacitors. *Electrochimica Acta*, **2010**, 56, 964-968	6.7	183
186	Succinonitrile as a Versatile Additive for Polymer Electrolytes. *Advanced Functional Materials*, **2007**, 17, 2800-2807	15.6	181
185	Intercalated Electrolyte with High Transference Number for Dendrite-Free Solid-State Lithium Batteries. *Advanced Functional Materials*, **2019**, 29, 1901047	15.6	178

184	Tuning three-dimensional textures with graphene aerogels for ultra-light flexible graphene/texture composites of effective electromagnetic shielding. *Carbon*, **2015**, 93, 151-160	10.4	171
183	Solvent-Free Synthesis of Thin, Flexible, Nonflammable Garnet-Based Composite Solid Electrolyte for All-Solid-State Lithium Batteries. *Advanced Energy Materials*, **2020**, 10, 1903376	21.8	168
182	Interfacial engineering of carbon nanofiber-graphene-carbon nanofiber heterojunctions in flexible lightweight electromagnetic shielding networks. *ACS Applied Materials & Interfaces*, **2014**, 6, 10516-23	9.5	163
181	Magnetic and conductive graphene papers toward thin layers of effective electromagnetic shielding. *Journal of Materials Chemistry A*, **2015**, 3, 2097-2107	13	162
180	Strong and thermostable polymeric graphene/silica textile for lightweight practical microwave absorption composites. *Carbon*, **2016**, 100, 109-117	10.4	160
179	Dendrite-free Li metal deposition in all-solid-state lithium sulfur batteries with polymer-in-salt polysiloxane electrolyte. *Energy Storage Materials*, **2018**, 15, 37-45	19.4	145
178	Facile fabrication of ultrathin graphene papers for effective electromagnetic shielding. *Journal of Materials Chemistry C*, **2014**, 2, 5057-5064	7.1	138
177	Effects of the functional groups on the electrochemical properties of ordered porous carbon for supercapacitors. *Electrochimica Acta*, **2013**, 105, 299-304	6.7	132
176	Effect of modified SiO2 on the properties of PEO-based polymer electrolytes. *Solid State Ionics*, **2003**, 164, 81-86	3.3	125
175	MOF-derived CoSe2 microspheres with hollow interiors as high-performance electrocatalysts for the enhanced oxygen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 15310-15314	13	123
174	Self-supporting Si/Reduced Graphene Oxide nanocomposite films as anode for lithium ion batteries. *Electrochemistry Communications*, **2011**, 13, 1332-1335	5.1	122
173	Facile synthesis of ordered porous Si@C nanorods as anode materials for Li-ion batteries. *Electrochimica Acta*, **2012**, 71, 194-200	6.7	120
172	Porous film host-derived 3D composite polymer electrolyte for high-voltage solid state lithium batteries. *Energy Storage Materials*, **2020**, 26, 283-289	19.4	120
171	Hollow Core-Shell SnO2/C Fibers as Highly Stable Anodes for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2015**, 7, 21472-8	9.5	116
170	Conversion of diatomite to porous Si/C composites as promising anode materials for lithium-ion batteries. *Journal of Power Sources*, **2012**, 219, 29-35	8.9	115
169	Hollow core-shell structured Si/C nanocomposites as high-performance anode materials for lithium-ion batteries. *Nanoscale*, **2014**, 6, 3138-42	7.7	112
168	Composite effects in poly(ethylene oxide)–succinonitrile based all-solid electrolytes. *Electrochemistry Communications*, **2006**, 8, 1753-1756	5.1	111
167	Thermal, electrical and mechanical properties of plasticized polymer electrolytes based on PEO/P(VDF-HFP) blends. *Electrochimica Acta*, **2002**, 48, 205-209	6.7	111

166	Biowaste-derived 3D honeycomb-like porous carbon with binary-heteroatom doping for high-performance flexible solid-state supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 160-166	13	106
165	Highly uniform silicon nanoparticle/porous carbon nanofiber hybrids towards free-standing high-performance anodes for lithium-ion batteries. *Carbon*, **2015**, 82, 337-345	10.4	104
164	Red phosphorus nanoparticles embedded in porous N-doped carbon nanofibers as high-performance anode for sodium-ion batteries. *Energy Storage Materials*, **2017**, 9, 170-178	19.4	103
163	Dielectric behavior of novel three-phase MWNTs/BaTiO3/PVDF composites. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 103, 140-144	3.1	101
162	Anisotropic Slippery Surfaces: Electric-Driven Smart Control of a Drop's Slide. *Advanced Materials*, **2016**, 28, 6999-7007	24	93
161	Rational design of graphene/porous carbon aerogels for high-performance flexible all-solid-state supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 10895-10903	13	93
160	Self-wound composite nanomembranes as electrode materials for lithium ion batteries. *Advanced Materials*, **2010**, 22, 4591-5	24	92
159	Approaching the Downsizing Limit of Maricite NaFePO4 toward High-Performance Cathode for Sodium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1801917	15.6	92
158	Improved dielectric properties and highly efficient and broadened bandwidth electromagnetic attenuation of thickness-decreased carbon nanosheet/wax composites. *Journal of Materials Chemistry C*, **2013**, 1, 1846	7.1	90
157	Electrospun polyimide-based fiber membranes as polymer electrolytes for lithium-ion batteries. *Electrochimica Acta*, **2014**, 132, 538-544	6.7	87
156	Dielectric behavior of Li and Ti co-doped NiO/PVDF composites. *Chemical Physics Letters*, **2003**, 376, 389-394	2.5	84
155	Assembly of graphene aerogels into the 3D biomass-derived carbon frameworks on conductive substrates for flexible supercapacitors. *Carbon*, **2017**, 111, 658-666	10.4	83
154	Study on dielectric behavior of a three-phase CF/(PVDF + BaTiO3) composite. *Chemical Physics Letters*, **2003**, 369, 95-100	2.5	83
153	Two Birds with One Stone: Metal□Organic Framework Derived Micro-/Nanostructured Ni2P/Ni Hybrids Embedded in Porous Carbon for Electrocatalysis and Energy Storage. *Advanced Functional Materials*, **2019**, 29, 1901510	15.6	82
152	Nano-Li4Ti5O12 anchored on carbon nanotubes by liquid phase deposition as anode material for high rate lithium-ion batteries. *Journal of Power Sources*, **2012**, 214, 195-199	8.9	82
151	Tailoring inorganic□polymer composites for the mass production of solid-state batteries. *Nature Reviews Materials*,	73.3	82
150	Chemical Energy Release Driven Lithiophilic Layer on 1 m Commercial Brass Mesh toward Highly Stable Lithium Metal Batteries. *Nano Letters*, **2019**, 19, 1832-1837	11.5	82
149	Flexible poly(ethylene carbonate)/garnet composite solid electrolyte reinforced by poly(vinylidene fluoride-hexafluoropropylene) for lithium metal batteries. *Journal of Power Sources*, **2018**, 392, 232-238	8.9	81

148	Hierarchical porous NiCo2S4-rGO composites for high-performance supercapacitors. *Electrochimica Acta*, **2017**, 249, 1-8	6.7	78
147	Three-dimensional porous graphene-encapsulated CNT@SnO2 composite for high-performance lithium and sodium storage. *Electrochimica Acta*, **2017**, 230, 212-221	6.7	77
146	Co2P nanoparticles encapsulated in 3D porous N-doped carbon nanosheet networks as an anode for high-performance sodium-ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 2139-2147	13	77
145	Alignment of graphene sheets in wax composites for electromagnetic interference shielding improvement. *Nanotechnology*, **2013**, 24, 115708	3.4	77
144	Dendrite-free Na metal plating/stripping onto 3D porous Cu hosts. *Energy Storage Materials*, **2018**, 15, 274-281	19.4	77
143	Graphene highly scattered in porous carbon nanofibers: a binder-free and high-performance anode for sodium-ion batteries. *Journal of Materials Chemistry A*, **2017**, 5, 1698-1705	13	75
142	A wearable microwave absorption cloth. *Journal of Materials Chemistry C*, **2017**, 5, 2432-2441	7.1	74
141	Silicon/carbon nanocomposite pyrolyzed from phenolic resin as anode materials for lithium-ion batteries. *Journal of Power Sources*, **2013**, 244, 570-574	8.9	73
140	Asymmetric Polymer Electrolyte Constructed by Metal‐Organic Framework for Solid-State, Dendrite-Free Lithium Metal Battery. *Advanced Functional Materials*, **2021**, 31, 2007198	15.6	72
139	Regulating Uniform Li Plating/Stripping via Dual-Conductive Metal-Organic Frameworks for High-Rate Lithium Metal Batteries. *Advanced Functional Materials*, **2020**, 30, 2000786	15.6	71
138	MOF-derived and nitrogen-doped ZnSe polyhedra encapsulated by reduced graphene oxide as the anode for lithium and sodium storage. *Journal of Materials Chemistry A*, **2018**, 6, 23621-23627	13	71
137	Porous polyaniline exhibits highly enhanced electrochemical capacitance performance. *Electrochimica Acta*, **2010**, 55, 5819-5822	6.7	70
136	Effect of nanosized ZnO on the electrical properties of (PEO)16LiClO4 electrolytes. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 99, 340-343	3.1	69
135	Carbon-coated LiFePO4-porous carbon composites as cathode materials for lithium ion batteries. *Nanoscale*, **2013**, 5, 2164-8	7.7	68
134	All-solid-state polymer electrolyte with plastic crystal materials for rechargeable lithium-ion battery. *Journal of Power Sources*, **2009**, 189, 775-778	8.9	68
133	Dielectric properties and morphologies of composites filled with whisker and nanosized zinc oxide. *Materials Research Bulletin*, **2003**, 38, 499-507	5.1	67
132	Prelithiated V C MXene: A High-Performance Electrode for Hybrid Magnesium/Lithium-Ion Batteries by Ion Cointercalation. *Small*, **2020**, 16, e1906076	11	64
131	Poly(vinyl pyrrolidone) wrapped multi-walled carbon nanotube/poly(vinyl alcohol) composite hydrogels. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 1398-1405	8.4	64

130	Hierarchical Engineering of Porous P2-Na2/3Ni1/3Mn2/3O2 Nanofibers Assembled by Nanoparticles Enables Superior Sodium-Ion Storage Cathodes. *Advanced Functional Materials*, **2020**, 30, 1907837	15.6	64
129	Facile fabrication of polyacrylonitrile/alumina composite membranes based on triethylene glycol diacetate-2-propenoic acid butyl ester gel polymer electrolytes for high-voltage lithium-ion batteries. *Journal of Membrane Science*, **2015**, 486, 21-28	9.6	60
128	Dielectric properties of carbon fiber filled low-density polyethylene. *Journal of Applied Physics*, **2003**, 93, 5543-5545	2.5	60
127	The effect of reduction time on the surface functional groups and supercapacitive performance of graphene nanosheets. *Carbon*, **2012**, 50, 3724-3730	10.4	59
126	Biomass derivative/graphene aerogels for binder-free supercapacitors. *Energy Storage Materials*, **2016**, 3, 113-122	19.4	58
125	In situ synthesis of TiO2graphene nanosheets composites as anode materials for high-power lithium ion batteries. *Electrochimica Acta*, **2012**, 69, 328-333	6.7	58
124	A versatile strategy toward binary three-dimensional architectures based on engineering graphene aerogels with porous carbon fabrics for supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 4257-64	9.5	57
123	Hierarchical porous reduced graphene oxide/SnO 2 networks as highly stable anodes for lithium-ion batteries. *Electrochimica Acta*, **2016**, 207, 9-15	6.7	57
122	Reverse microemulsion synthesis of nickel-cobalt hexacyanoferrate/reduced graphene oxide nanocomposites for high-performance supercapacitors and sodium ion batteries. *Applied Surface Science*, **2018**, 434, 1285-1292	6.7	56
121	Research and application progress on key materials for sodium-ion batteries. *Sustainable Energy and Fuels*, **2017**, 1, 986-1006	5.8	55
120	Effect of oxygen-containing functional groups in epoxy/reduced graphene oxide composite coatings on corrosion protection and antimicrobial properties. *Applied Surface Science*, **2018**, 448, 351-361	6.7	55
119	Graphene intercalated in graphene-like MoS2: A promising cathode for rechargeable Mg batteries. *Journal of Power Sources*, **2017**, 340, 104-110	8.9	54
118	Enhanced ionic conductivities in composite polymer electrolytes by using succinonitrile as a plasticizer. *Solid State Ionics*, **2008**, 179, 1772-1775	3.3	51
117	Challenges and Recent Progress on Key Materials for Rechargeable Magnesium Batteries. *Advanced Energy Materials*, **2021**, 11, 2000787	21.8	51
116	Pursuit of a high-capacity and long-life Mg-storage cathode by tailoring sandwich-structured MXene@carbon nanosphere composites. *Journal of Materials Chemistry A*, **2019**, 7, 16712-16719	13	50
115	Tuning broadband microwave absorption via highly conductive Fe3O4/graphene heterostructural nanofillers. *Materials Research Bulletin*, **2015**, 72, 316-323	5.1	50
114	Effect of nitrogen on the electrochemical performance of coreshell structured Si/C nanocomposites as anode materials for Li-ion batteries. *Electrochimica Acta*, **2013**, 89, 394-399	6.7	50
113	An improved method for chemical bath deposition of ZnS thin films. *Chemical Physics Letters*, **2008**, 462, 84-87	2.5	50

112	Scalable fabrication of exceptional 3D carbon networks for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 16104-16111	13	49
111	Effect of modified montmorillonites on the ionic conductivity of (PEO)16LiClO4 electrolytes. *Electrochimica Acta*, **2002**, 47, 3541-3544	6.7	49
110	A strategy for scalable synthesis of Li4Ti5O12/reduced graphene oxide toward high rate lithium-ion batteries. *Electrochemistry Communications*, **2014**, 40, 1-4	5.1	48
109	Interweaved Si@SiOx/C nanoporous spheres as anode materials for Li-ion batteries. *Solid State Ionics*, **2012**, 220, 1-6	3.3	47
108	In situ electric-driven reversible switching of water-droplet adhesion on a superhydrophobic surface. *Journal of Materials Chemistry A*, **2015**, 3, 23699-23706	13	46
107	Low temperature hydrothermal synthesis of nano-sized manganese oxide for supercapacitors. *Electrochimica Acta*, **2012**, 66, 302-305	6.7	46
106	Free-standing sulfide/polymer composite solid electrolyte membranes with high conductance for all-solid-state lithium batteries. *Energy Storage Materials*, **2020**, 25, 145-153	19.4	46
105	Preparation of nanosized ZnO and dielectric properties of composites filled with nanosized ZnO. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2003**, 99, 386-389	3.1	45
104	Early Lithium Plating Behavior in Confined Nanospace of 3D Lithiophilic Carbon Matrix for Stable Solid-State Lithium Metal Batteries. *Small*, **2019**, 15, e1904216	11	44
103	Facile Fabrication of Binder-free Metallic Tin Nanoparticle/Carbon Nanofiber Hybrid Electrodes for Lithium-ion Batteries. *Electrochimica Acta*, **2015**, 153, 468-475	6.7	43
102	In situ synthesis of a highly active Na2Ti3O7 nanosheet on an activated carbon fiber as an anode for high-energy density supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 16186-16195	13	42
101	Ordered Honeycomb Structure Surface Generated by Breath Figures for Liquid Reprography. *Advanced Functional Materials*, **2014**, 24, 7241-7248	15.6	42
100	Three-dimensional porous carbon-coated graphene composite as high-stable and long-life anode for sodium-ion batteries. *Chemical Engineering Journal*, **2017**, 316, 645-654	14.7	41
99	Sandwich structured NASICON-type electrolyte matched with sulfurized polyacrylonitrile cathode for high performance solid-state lithium-sulfur batteries. *Chemical Engineering Journal*, **2020**, 393, 124705	14.7	41
98	Electrochemical performance of trimethylolpropane trimethylacrylate-based gel polymer electrolyte prepared by in situ thermal polymerization. *Electrochimica Acta*, **2013**, 89, 334-338	6.7	41
97	High Areal Capacity Dendrite-Free Li Anode Enabled by Metal–Organic Framework-Derived Nanorod Array Modified Carbon Cloth for Solid State Li Metal Batteries. *Advanced Functional Materials*, **2021**, 31, 2001973	15.6	41
96	Realizing a High-Performance Na-Storage Cathode by Tailoring Ultrasmall NaFePOF Nanoparticles with Facilitated Reaction Kinetics. *Advanced Science*, **2019**, 6, 1900649	13.6	40
95	Thermal, electrical and mechanical properties of (PEO)16LiClO4 electrolytes with modified montmorillonites. *Chemical Physics Letters*, **2003**, 369, 698-702	2.5	40

94	A three-dimensional interconnected V6O13 nest with a V5+-rich state for ultrahigh Zn ion storage. *Journal of Materials Chemistry A*, **2020**, 8, 10370-10376	13	39
93	Three-Dimensional Interconnected Network of Graphene-Wrapped Silicon/Carbon Nanofiber Hybrids for Binder-Free Anodes in Lithium-Ion Batteries. *ChemElectroChem*, **2015**, 2, 1699-1706	4.3	39
92	Effect of alumina on triethylene glycol diacetate-2-propenoic acid butyl ester composite polymer electrolytes for flexible lithium ion batteries. *Journal of Power Sources*, **2015**, 279, 405-412	8.9	39
91	High nitrogen-containing cotton derived 3D porous carbon frameworks for high-performance supercapacitors. *Scientific Reports*, **2015**, 5, 15388	4.9	38
90	Engineering graphene aerogels with porous carbon of large surface area for flexible all-solid-state supercapacitors. *Electrochimica Acta*, **2015**, 165, 92-97	6.7	36
89	High Capacity and Superior Cyclic Performances of All-Solid-State Lithium-Sulfur Batteries Enabled by a High-Conductivity LiSnPS Solid Electrolyte. *ACS Applied Materials & Interfaces*, **2019**, 11, 36774-36781	9.5	35
88	Effect of polyacrylonitrile on triethylene glycol diacetate-2-propenoic acid butyl ester gel polymer electrolytes with interpenetrating crosslinked network for flexible lithium ion batteries. *Journal of Power Sources*, **2015**, 295, 139-148	8.9	35
87	Self-standing Na-storage anode of Fe2O3 nanodots encapsulated in porous N-doped carbon nanofibers with ultra-high cyclic stability. *Nano Research*, **2018**, 11, 4026-4037	10	35
86	Solid-state lithium metal batteries enabled with high loading composite cathode materials and ceramic-based composite electrolytes. *Journal of Power Sources*, **2019**, 442, 227230	8.9	35
85	Enhancing interfacial stability in solid-state lithium batteries with polymer/garnet solid electrolyte and composite cathode framework. *Journal of Energy Chemistry*, **2021**, 52, 210-217	12	35
84	Preparation and electrochemical properties of gel polymer electrolytes using triethylene glycol diacetate-2-propenoic acid butyl ester copolymer for high energy density lithium-ion batteries. *Journal of Power Sources*, **2014**, 249, 392-396	8.9	33
83	Flexible, high-voltage and free-standing composite polymer electrolyte membrane based on triethylene glycol diacetate-2-propenoic acid butyl ester copolymer for lithium-ion batteries. *Journal of Membrane Science*, **2015**, 492, 490-496	9.6	32
82	Gel-based composite polymer electrolytes with novel hierarchical mesoporous silica network for lithium batteries. *Electrochimica Acta*, **2008**, 53, 8001-8007	6.7	32
81	Confined Porous Graphene/SnOx Frameworks within Polyaniline-Derived Carbon as Highly Stable Lithium-Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2016**, 8, 13410-7	9.5	32
80	Highly stable GeOx@C core–shell fibrous anodes for improved capacity in lithium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 19907-19912	13	31
79	3D porous binary-heteroatom doped carbon nanosheet/electrochemically exfoliated graphene hybrids for high performance flexible solid-state supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 8750-8756	13	31
78	Three-Dimensional Porous Carbon–Silicon Frameworks as High-Performance Anodes for Lithium-Ion Batteries. *ChemElectroChem*, **2014**, 1, 2124-2130	4.3	31
77	Synthesis of two-dimensional carbide Mo2CTx MXene by hydrothermal etching with fluorides and its thermal stability. *Ceramics International*, **2020**, 46, 19550-19556	5.1	30

76	Can we find solution to eliminate Li penetration through solid garnet electrolytes?. *Materials Today Nano*, **2020**, 10, 100075	9.7	30
75	High-performance all-solid-state lithium–sulfur batteries with sulfur/carbon nano-hybrids in a composite cathode. *Journal of Materials Chemistry A*, **2018**, 6, 23345-23356	13	30
74	A simple strategy toward hierarchically porous graphene/nitrogen-rich carbon foams for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 24178-24184	13	29
73	High rate integrated quasi-solid state supercapacitors based on nitrogen-enriched active carbon fiber/reduced graphene oxide nanocomposite. *Carbon*, **2018**, 130, 196-205	10.4	29
72	Preparation and performance of a non-ionic plastic crystal electrolyte with the addition of polymer for lithium ion batteries. *Electrochimica Acta*, **2013**, 114, 720-725	6.7	28
71	Tin nanoparticles embedded in porous N-doped graphene-like carbon network as high-performance anode material for lithium-ion batteries. *Journal of Alloys and Compounds*, **2017**, 699, 730-737	5.7	27
70	Immobilization of tungsten disulfide nanosheets on active carbon fibers as electrode materials for high performance quasi-solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 7835-7841	13	27
69	Self-Propagating Enabling High Lithium Metal Utilization Ratio Composite Anodes for Lithium Metal Batteries. *Nano Letters*, **2021**, 21, 791-797	11.5	24
68	Interconnected TiOx/carbon hybrid framework incorporated silicon for stable lithium ion battery anodes. *Journal of Materials Chemistry A*, **2015**, 3, 12709-12717	13	23
67	Facile fabrication of safe and robust polyimide fibrous membrane based on triethylene glycol diacetate-2-propenoic acid butyl ester gel electrolytes for lithium-ion batteries. *Electrochimica Acta* , **2014**, 149, 176-185	6.7	23
66	Beta-manganese dioxide nanorods for sufficient high-temperature electromagnetic interference shielding in X-band. *Applied Physics A: Materials Science and Processing*, **2014**, 116, 1779-1783	2.6	23
65	Effects of fluorine substitution on the electrochemical performance of layered Li-excess nickel manganese oxides cathode materials for lithium-ion batteries. *Electrochimica Acta*, **2013**, 113, 407-411	6.7	23
64	P(VDF-HFP)-poly(sulfur-1,3-diisopropenylbenzene) functional polymer electrolyte for lithium–sulfur batteries. *Journal of Energy Chemistry*, **2020**, 46, 114-122	12	23
63	Enhanced electrochemical performance of Li4Ti5O12 as anode material for lithium-ion batteries with different carbons as support. *Journal of Alloys and Compounds*, **2015**, 646, 189-194	5.7	22
62	Preparation and supercapacitor application of the single crystal nickel hydroxide and oxide nanosheets. *Materials Research Bulletin*, **2013**, 48, 3518-3526	5.1	22
61	Growth of carbon nanosheets on carbon nanotube arrays for the fabrication of three-dimensional micro-patterned supercapacitors. *Carbon*, **2019**, 155, 453-461	10.4	21
60	Nitrogen-rich hierarchically porous carbon foams as high-performance electrodes for lithium-based dual-ion capacitor. *Journal of Energy Chemistry*, **2020**, 48, 187-194	12	21
59	Ionic transport behavior in poly(ethylene oxide)–poly(propylene oxide)–poly(ethylene oxide) and LiClO4 complex. *Electrochimica Acta*, **2008**, 53, 2448-2452	6.7	21

58	All-solid-state sodium batteries enabled by flexible composite electrolytes and plastic-crystal interphase. *Chemical Engineering Journal*, **2020**, 384, 123233	14.7	21
57	Poly(ethylene carbonate)-based electrolytes with high concentration Li salt for all-solid-state lithium batteries. *Rare Metals*, **2018**, 37, 488-496	5.5	20
56	Coherent SnS2/NiS2 hetero-nanosheet arrays with fast charge transfer for enhanced sodium-ion storage. *Applied Surface Science*, **2020**, 508, 145241	6.7	20
55	Boosting fast and durable sodium-ion storage by tailoring well-shaped Na0.44MnO2 nanowires cathode. *Electrochimica Acta*, **2019**, 313, 122-130	6.7	19
54	Synthesis of TiOx Nanotubular Arrays with Oxygen Defects as High-Performance Anodes for Lithium-Ion Batteries. *ChemElectroChem*, **2015**, 2, 421-426	4.3	19
53	High-conductivity free-standing Li6PS5Cl/poly(vinylidene difluoride) composite solid electrolyte membranes for lithium-ion batteries. *Journal of Materiomics*, **2020**, 6, 70-76	6.7	19
52	Manipulating interfacial stability of LiNi0.5Co0.3Mn0.2O2 cathode with sulfide electrolyte by nanosized LLTO coating to achieve high-performance all-solid-state lithium batterie. *Journal of Energy Chemistry*, **2021**, 52, 202-209	12	19
51	Improving electrochemical performance of spherical LiMn2O4 cathode materials for lithium ion batteries by Al-F codoping and AlF3 surface coating. *Ionics*, **2015**, 21, 27-35	2.7	18
50	Nano-scale and micron-scale manganese dioxide vs corresponding paraffin composites for electromagnetic interference shielding and microwave absorption. *Materials Research Bulletin*, **2014**, 51, 277-286	5.1	18
49	Studies on lithium bis(oxalato)-borate/propylene carbonate-based electrolytes for Li-ion batteries. *Ionics*, **2011**, 17, 491-494	2.7	18
48	Silicon/carbon nanocomposites used as anode materials for lithium-ion batteries. *Ionics*, **2013**, 19, 1545-1549	2.7	17
47	A Raman spectroscopy investigation of the interactions of LiBOB with □BL as electrolyte for advanced lithium batteries. *Journal of Power Sources*, **2010**, 195, 4285-4289	8.9	17
46	Flexible Graphene-Based Composite Films for Supercapacitors with Tunable Areal Capacitance. *Electrochimica Acta*, **2017**, 235, 233-241	6.7	16
45	Single-Crystal □FeO with Engineered Exposed (001) Facet for High-Rate, Long-Cycle-Life Lithium-Ion Battery Anode. *Inorganic Chemistry*, **2019**, 58, 12724-12732	5.1	16
44	Synthesis of SnO2 nanorods and hollow spheres and their electrochemical properties as anode materials for lithium ion batteries. *Materials Technology*, **2012**, 27, 191-195	2.1	16
43	Flexible solid-state self-charging supercapacitor based on symmetric electrodes and piezo-electrolyte. *Chemical Engineering Journal*, **2021**, 406, 126825	14.7	16
42	Alcohol-dependent environments for fabricating graphene aerogels toward supercapacitors. *Electrochimica Acta*, **2015**, 173, 1-6	6.7	15
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