

Gleb Yushin

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162
papers

28,725
citations

74
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169
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172
ext. papers

31,713
ext. citations

14.1
avg, IF

7.51
L-index

#	Paper	IF	Citations
162	Li-ion battery materials: present and future. <i>Materials Today</i> , 2015 , 18, 252-264	21.8	3812
161	Anomalous increase in carbon capacitance at pore sizes less than 1 nanometer. <i>Science</i> , 2006 , 313, 1760-3	33.3	2937
160	Challenges facing lithium batteries and electrical double-layer capacitors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9994-10024	16.4	2149
159	High-performance lithium-ion anodes using a hierarchical bottom-up approach. <i>Nature Materials</i> , 2010 , 9, 353-8	27	1707
158	A major constituent of brown algae for use in high-capacity Li-ion batteries. <i>Science</i> , 2011 , 334, 75-9	33.3	1333
157	Toward efficient binders for Li-ion battery Si-based anodes: polyacrylic acid. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3004-10	9.5	750
156	Control of sp ² /sp ³ carbon ratio and surface chemistry of nanodiamond powders by selective oxidation in air. <i>Journal of the American Chemical Society</i> , 2006 , 128, 11635-42	16.4	697
155	Electrochemical performance of carbon onions, nanodiamonds, carbon black and multiwalled nanotubes in electrical double layer capacitors. <i>Carbon</i> , 2007 , 45, 2511-2518	10.4	580
154	Effect of pore size and surface area of carbide derived carbons on specific capacitance. <i>Journal of Power Sources</i> , 2006 , 158, 765-772	8.9	515
153	High-Capacity Anode Materials for Lithium-Ion Batteries: Choice of Elements and Structures for Active Particles. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 317-336	3.1	497
152	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2011 , 1, 356-361	21.8	470
151	High-rate electrochemical capacitors based on ordered mesoporous silicon carbide-derived carbon. <i>ACS Nano</i> , 2010 , 4, 1337-44	16.7	408
150	Atomic layer deposition of vanadium oxide on carbon nanotubes for high-power supercapacitor electrodes. <i>Energy and Environmental Science</i> , 2012 , 5, 6872	35.4	400
149	Review of nanostructured carbon materials for electrochemical capacitor applications: advantages and limitations of activated carbon, carbide-derived carbon, zeolite-templated carbon, carbon aerogels, carbon nanotubes, onion-like carbon, and graphene. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2014 , 3, 424-473	4.7	398
148	Nanostructured activated carbons from natural precursors for electrical double layer capacitors. <i>Nano Energy</i> , 2012 , 1, 552-565	17.1	392
147	Conversion cathodes for rechargeable lithium and lithium-ion batteries. <i>Energy and Environmental Science</i> , 2017 , 10, 435-459	35.4	380
146	Polypyrrole-Derived Activated Carbons for High-Performance Electrical Double-Layer Capacitors with Ionic Liquid Electrolyte. <i>Advanced Functional Materials</i> , 2012 , 22, 827-834	15.6	359

145	Carbide-Derived Carbons: Effect of Pore Size on Hydrogen Uptake and Heat of Adsorption. <i>Advanced Functional Materials</i> , 2006 , 16, 2288-2293	15.6	335
144	Titanium carbide derived nanoporous carbon for energy-related applications. <i>Carbon</i> , 2006 , 44, 2489-2497	17.4	321
143	Tailoring of nanoscale porosity in carbide-derived carbons for hydrogen storage. <i>Journal of the American Chemical Society</i> , 2005 , 127, 16006-7	16.4	294
142	Deformations in Si-Li anodes upon electrochemical alloying in nano-confined space. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8548-9	16.4	286
141	Sulfur-infiltrated micro- and mesoporous silicon carbide-derived carbon cathode for high-performance lithium sulfur batteries. <i>Advanced Materials</i> , 2013 , 25, 4573-9	24	284
140	Hierarchical micro- and mesoporous carbide-derived carbon as a high-performance electrode material in supercapacitors. <i>Small</i> , 2011 , 7, 1108-17	11	263
139	Sulfur-containing activated carbons with greatly reduced content of bottle neck pores for double-layer capacitors: a case study for pseudocapacitance detection. <i>Energy and Environmental Science</i> , 2013 , 6, 2465	35.4	262
138	Lithium iodide as a promising electrolyte additive for lithium-sulfur batteries: mechanisms of performance enhancement. <i>Advanced Materials</i> , 2015 , 27, 101-8	24	252
137	Nanodiamond-polymer composite fibers and coatings. <i>ACS Nano</i> , 2009 , 3, 363-9	16.7	251
136	Towards ultrathick battery electrodes: aligned carbon nanotube-enabled architecture. <i>Advanced Materials</i> , 2012 , 24, 533-7	24	241
135	Materials for supercapacitors: When Li-ion battery power is not enough. <i>Materials Today</i> , 2018 , 21, 419-436	16.8	234
134	Nanosilicon-Coated Graphene Granules as Anodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2011 , 1, 495-498	21.8	224
133	Ten years left to redesign lithium-ion batteries. <i>Nature</i> , 2018 , 559, 467-470	50.4	223
132	Detonation Nanodiamond and Onion-Like-Carbon-Embedded Polyaniline for Supercapacitors. <i>Advanced Functional Materials</i> , 2010 , 20, 3979-3986	15.6	208
131	Chemical vapor deposition and atomic layer deposition for advanced lithium ion batteries and supercapacitors. <i>Energy and Environmental Science</i> , 2015 , 8, 1889-1904	35.4	185
130	Lithiumbatterien und elektrische Doppelschichtkondensatoren: aktuelle Herausforderungen. <i>Angewandte Chemie</i> , 2012 , 124, 10134-10166	3.6	176
129	In Situ Formation of Protective Coatings on Sulfur Cathodes in Lithium Batteries with LiFSI-Based Organic Electrolytes. <i>Advanced Energy Materials</i> , 2015 , 5, 1401792	21.8	165
128	Tailoring the pore alignment for rapid ion transport in microporous carbons. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3252-3	16.4	164

127	Carbide-derived carbon aerogels with tunable pore structure as versatile electrode material in high power supercapacitors. <i>Carbon</i> , 2017 , 113, 283-291	10.4	155
126	Effect of Carbon Particle Size on Electrochemical Performance of EDLC. <i>Journal of the Electrochemical Society</i> , 2008 , 155, A531	3.9	148
125	Ultra strong silicon-coated carbon nanotube nonwoven fabric as a multifunctional lithium-ion battery anode. <i>ACS Nano</i> , 2012 , 6, 9837-45	16.7	147
124	Synthesis, structure and porosity analysis of microporous and mesoporous carbon derived from zirconium carbide. <i>Microporous and Mesoporous Materials</i> , 2005 , 86, 50-57	5.3	141
123	Hydrothermal synthesis of microalgae-derived microporous carbons for electrochemical capacitors. <i>Journal of Power Sources</i> , 2014 , 267, 26-32	8.9	131
122	Graphene-Li ₂ S-Carbon Nanocomposite for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2016 , 10, 1333-40	16.7	130
121	Multifunctional CNT-polymer composites for ultra-tough structural supercapacitors and desalination devices. <i>Advanced Materials</i> , 2013 , 25, 6625-32	24	130
120	A cubic ordered, mesoporous carbide-derived carbon for gas and energy storage applications. <i>Carbon</i> , 2010 , 48, 3987-3992	10.4	130
119	Synthesis and electrochemical performance of reduced graphene oxide/maghemite composite anode for lithium ion batteries. <i>Carbon</i> , 2013 , 52, 56-64	10.4	128
118	Plasma-Enhanced Atomic Layer Deposition of Ultrathin Oxide Coatings for Stabilized Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2013 , 3, 1308-1315	21.8	123
117	Harnessing Steric Separation of Freshly Nucleated Li ₂ S Nanoparticles for Bottom-Up Assembly of High-Performance Cathodes for Lithium-Sulfur and Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1400196	21.8	122
116	Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. <i>Journal of Materials Research</i> , 2010 , 25, 1525-1531	2.5	121
115	Synthesis of nanoporous carbide-derived carbon by chlorination of titanium silicon carbide. <i>Carbon</i> , 2005 , 43, 2075-2082	10.4	120
114	Micro- and Mesoporous Carbide-Derived Carbon-Selenium Cathodes for High-Performance Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1400981	21.8	118
113	Nanoporous Li ₂ S and MWCNT-linked Li ₂ S powder cathodes for lithium-sulfur and lithium-ion battery chemistries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6064-6070	13	114
112	Hierarchical Fabric Decorated with Carbon Nanowire/Metal Oxide Nanocomposites for 1.6 V Wearable Aqueous Supercapacitors. <i>Advanced Energy Materials</i> , 2018 , 8, 1703454	21.8	112
111	Mesoporous carbide-derived carbon with porosity tuned for efficient adsorption of cytokines. <i>Biomaterials</i> , 2006 , 27, 5755-62	15.6	111
110	Ex-situ depth-sensing indentation measurements of electrochemically produced Si ₃ N ₄ alloy films. <i>Electrochemistry Communications</i> , 2011 , 13, 818-821	5.1	107

109	Noncatalytic synthesis of carbon nanotubes, graphene and graphite on SiC. <i>Carbon</i> , 2008 , 46, 841-849	10.4	107
108	A Hierarchical Particle-Shell Architecture for Long-Term Cycle Stability of Li ₂ S Cathodes. <i>Advanced Materials</i> , 2015 , 27, 5579-86	24	101
107	Effects of Dissolved Transition Metals on the Electrochemical Performance and SEI Growth in Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A1915-A1921	3.9	100
106	Effect of sintering on structure of nanodiamond. <i>Diamond and Related Materials</i> , 2005 , 14, 1721-1729	3.5	99
105	Electrical double layer capacitors with sucrose derived carbon electrodes in ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2011 , 196, 4072-4079	8.9	97
104	Micro and mesoporosity of carbon derived from ternary and binary metal carbides. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 526-532	5.3	97
103	Functionalized carbon onions, detonation nanodiamond and mesoporous carbon as cathodes in Li-ion electrochemical energy storage devices. <i>Carbon</i> , 2013 , 53, 292-301	10.4	93
102	Infiltrated Porous Polymer Sheets as Free-Standing Flexible Lithium-Sulfur Battery Electrodes. <i>Advanced Materials</i> , 2016 , 28, 6365-71	24	90
101	Analysis of Lithium Insertion/Deinsertion in a Silicon Electrode Particle at Room Temperature. <i>Journal of the Electrochemical Society</i> , 2010 , 157, A1139	3.9	90
100	Solution-Based Processing of Graphene/Li ₂ S Composite Cathodes for Lithium-Ion and Lithium-Sulfur Batteries. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 639-644	3.1	89
99	Lithium Titanate Confined in Carbon Nanopores for Asymmetric Supercapacitors. <i>ACS Nano</i> , 2016 , 10, 3977-84	16.7	85
98	Chemical vapor deposition of aluminum nanowires on metal substrates for electrical energy storage applications. <i>ACS Nano</i> , 2012 , 6, 118-25	16.7	85
97	Formation of Carbide-Derived Carbon on Silicon Carbide Whiskers. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 509-514	3.8	84
96	Anisotropic etching of SiC whiskers. <i>Nano Letters</i> , 2006 , 6, 548-51	11.5	82
95	In Situ TEM Observation of Electrochemical Lithiation of Sulfur Confined within Inner Cylindrical Pores of Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2015 , 5, 1501306	21.8	81
94	In Situ Studies of Ion Transport in Microporous Supercapacitor Electrodes at Ultralow Temperatures. <i>Advanced Functional Materials</i> , 2012 , 22, 1655-1662	15.6	81
93	Synthesis of Carbide-Derived Carbon by Chlorination of Ti ₂ AlC. <i>Chemistry of Materials</i> , 2005 , 17, 2317-2328	3.8	79
92	Layered LiTiO ₂ for the protection of Li ₂ S cathodes against dissolution: mechanisms of the remarkable performance boost. <i>Energy and Environmental Science</i> , 2018 , 11, 807-817	35.4	76

91	High temperature stabilization of lithium sulfur cells with carbon nanotube current collector. <i>Journal of Power Sources</i> , 2013 , 226, 256-265	8.9	76
90	Lithographically patterned thin activated carbon films as a new technology platform for on-chip devices. <i>ACS Nano</i> , 2013 , 7, 6498-506	16.7	76
89	Electrical double layer capacitors with activated sucrose-derived carbon electrodes. <i>Carbon</i> , 2011 , 49, 4830-4838	10.4	76
88	Double-Layer Capacitance of Carbide Derived Carbons in Sulfuric Acid. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, A357		72
87	Carbide-derived carbons: a comparative study of porosity based on small-angle scattering and adsorption isotherms. <i>Langmuir</i> , 2006 , 22, 8945-50	4	72
86	In situ small angle neutron scattering revealing ion sorption in microporous carbon electrical double layer capacitors. <i>ACS Nano</i> , 2014 , 8, 2495-503	16.7	70
85	Sulfur infiltrated activated carbon cathodes for lithium sulfur cells: The combined effects of pore size distribution and electrolyte molarity. <i>Journal of Power Sources</i> , 2014 , 248, 752-761	8.9	69
84	Comparative study of the solid electrolyte interphase on graphite in full Li-ion battery cells using X-ray photoelectron spectroscopy, secondary ion mass spectrometry, and electron microscopy. <i>Carbon</i> , 2013 , 52, 388-397	10.4	68
83	Enhancing performance of LiS cells using a LiAl alloy anode coating. <i>Electrochemistry Communications</i> , 2013 , 36, 38-41	5.1	66
82	Degradation and stabilization of lithium cobalt oxide in aqueous electrolytes. <i>Energy and Environmental Science</i> , 2016 , 9, 1841-1848	35.4	66
81	Iron Fluoride/Carbon Nanocomposite Nanofibers as Free-Standing Cathodes for High-Energy Lithium Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1801711	15.6	65
80	Cycle stability of conversion-type iron fluoride lithium battery cathode at elevated temperatures in polymer electrolyte composites. <i>Nature Materials</i> , 2019 , 18, 1343-1349	27	63
79	Increase of nanodiamond crystal size by selective oxidation. <i>Diamond and Related Materials</i> , 2008 , 17, 1122-1126	3.5	59
78	Transformation of bulk alloys to oxide nanowires. <i>Science</i> , 2017 , 355, 267-271	33.3	57
77	Carbon Nanotube-CoF ₂ Multifunctional Cathode for Lithium Ion Batteries: Effect of Electrolyte on Cycle Stability. <i>Small</i> , 2015 , 11, 5164-73	11	57
76	Understanding the Exceptional Performance of Lithium-Ion Battery Cathodes in Aqueous Electrolytes at Subzero Temperatures. <i>Advanced Energy Materials</i> , 2018 , 8, 1802624	21.8	55
75	Small-angle neutron scattering for in situ probing of ion adsorption inside micropores. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4618-22	16.4	52
74	Lithium/Iron Fluoride Battery with In Situ Surface Protection. <i>Advanced Functional Materials</i> , 2016 , 26, 1507-1516	15.6	51

73	Micro- and mesoporous carbide-derived carbon prepared by a sacrificial template method in high performance lithium sulfur battery cathodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17649-17654	13	51
72	Enhancing the Stability of Sulfur Cathodes in LiS Cells via in Situ Formation of a Solid Electrolyte Layer. <i>ACS Energy Letters</i> , 2016 , 1, 373-379	20.1	51
71	Boosting High-Performance in Lithium-Sulfur Batteries via Dilute Electrolyte. <i>Nano Letters</i> , 2020 , 20, 5391-5399	11.5	49
70	Aqueous solutions of acidic ionic liquids for enhanced stability of polyoxometalate-carbon supercapacitor electrodes. <i>Journal of Power Sources</i> , 2016 , 326, 569-574	8.9	48
69	Performance Enhancement and Side Reactions in Rechargeable Nickel-Iron Batteries with Nanostructured Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2088-96	9.5	47
68	Protons Enhance Conductivities in Lithium Halide Hydroxide/Lithium Oxyhalide Solid Electrolytes by Forming Rotating Hydroxy Groups. <i>Advanced Energy Materials</i> , 2018 , 8, 1700971	21.8	45
67	A stable lithiated silicon-chalcogen battery via synergetic chemical coupling between silicon and selenium. <i>Nature Communications</i> , 2017 , 8, 13888	17.4	43
66	Toward in-situ protected sulfur cathodes by using lithium bromide and pre-charge. <i>Nano Energy</i> , 2017 , 40, 170-179	17.1	42
65	Mesoporous carbide-derived carbon for cytokine removal from blood plasma. <i>Biomaterials</i> , 2010 , 31, 4789-94	15.6	41
64	Nanostructured Li ₂ Se cathodes for high performance lithium-selenium batteries. <i>Nano Energy</i> , 2016 , 27, 238-246	17.1	39
63	Charge storage at the nanoscale: understanding the trends from the molecular scale perspective. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21049-21076	13	39
62	N-nitrosamines formation from secondary amines by nitrogen fixation on the surface of activated carbon. <i>Environmental Science & Technology</i> , 2011 , 45, 8368-76	10.3	38
61	Electrolyte melt infiltration for scalable manufacturing of inorganic all-solid-state lithium-ion batteries. <i>Nature Materials</i> , 2021 , 20, 984-990	27	38
60	Lithium/Iron (III) Fluoride Battery with Double Surface Protection. <i>Advanced Energy Materials</i> , 2018 , 8, 1800721	21.8	37
59	In situ surface protection for enhancing stability and performance of conversion-type cathodes. <i>MRS Energy & Sustainability</i> , 2017 , 4, 1	2.2	37
58	The Role of Nanostructure in the Electrochemical Oxidation of Model-Carbon Materials in Acidic Environments. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B820	3.9	36
57	Influence of Binders, Carbons, and Solvents on the Stability of Phosphorus Anodes for Li-ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25991-26001	9.5	35
56	Enhancing Cycle Stability of Lithium Iron Phosphate in Aqueous Electrolytes by Increasing Electrolyte Molarity. <i>Advanced Energy Materials</i> , 2016 , 6, 1501805	21.8	34

55	Formation of Porous SiC Ceramics by Pyrolysis of Wood Impregnated with Silica. <i>International Journal of Applied Ceramic Technology</i> , 2006 , 3, 485-490	2	33
54	Solid-state lithium-sulfur batteries: Advances, challenges and perspectives. <i>Materials Today</i> , 2020 , 40, 114-131	21.8	33
53	Influence of annealing on ionic transfer and storage stability of Li ₂ S/P ₂ S ₅ solid electrolyte. <i>Journal of Power Sources</i> , 2015 , 294, 494-500	8.9	31
52	Fading Mechanisms and Voltage Hysteresis in FeF ₂ -NiF Solid Solution Cathodes for Lithium and Lithium-Ion Batteries. <i>Small</i> , 2019 , 15, e1804670	11	31
51	Battery materials for low-cost electric transportation. <i>Materials Today</i> , 2021 , 42, 57-72	21.8	29
50	Anatase TiO ₂ Confined in Carbon Nanopores for High-Energy Li-Ion Hybrid Supercapacitors Operating at High Rates and Subzero Temperatures. <i>Advanced Energy Materials</i> , 2020 , 10, 1902993	21.8	28
49	Insights into the Effects of Electrolyte Composition on the Performance and Stability of FeF ₂ Conversion-Type Cathodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1803323	21.8	27
48	Iron Phosphate Coated Flexible Carbon Nanotube Fabric as a Multifunctional Cathode for Na-Ion Batteries. <i>Small</i> , 2018 , 14, e1703425	11	27
47	Stabilization of selenium cathodes via in situ formation of protective solid electrolyte layer. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18898-18905	13	27
46	Scalable, safe, high-rate supercapacitor separators based on the Al ₂ O ₃ nanowire Polyvinyl butyral nonwoven membranes. <i>Nano Energy</i> , 2020 , 71, 104627	17.1	26
45	Iron oxide nanoconfined in carbon nanopores as high capacity anode for rechargeable alkaline batteries. <i>Nano Energy</i> , 2018 , 48, 170-179	17.1	24
44	Increasing Capacitance of Zeolite-Templated Carbons in Electric Double Layer Capacitors. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A5070-A5076	3.9	24
43	Morphology and Phase Changes in Iron Anodes Affecting their Capacity and Stability in Rechargeable Alkaline Batteries. <i>ACS Energy Letters</i> , 2018 , 3, 794-801	20.1	22
42	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. <i>Materials Today</i> , 2019 , 22, 58-66	21.8	21
41	Revealing Rate Limitations in Nanocrystalline Li ₄ Ti ₅ O ₁₂ Anodes for High-Power Lithium Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600003	4.6	19
40	Carbide-derived carbon membrane. <i>Materials Chemistry and Physics</i> , 2008 , 112, 587-591	4.4	17
39	Plasma pressure compaction of nanodiamond. <i>Diamond and Related Materials</i> , 2007 , 16, 1967-1973	3.5	17
38	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. <i>Materials Today</i> , 2021 , 48, 176-176	21.8	17

37	Atom-economic synthesis of Magn β phase Ti ₄ O ₇ microspheres for improved sulfur cathodes for LiS batteries. <i>Nano Energy</i> , 2021 , 79, 105428	17.1	17
36	Understanding Li-Ion Dynamics in Lithium Hydroxychloride (Li ₂ OHCl) Solid State Electrolyte via Addressing the Role of Protons. <i>Advanced Energy Materials</i> , 2020 , 10, 1903480	21.8	16
35	Mixed Metal Difluorides as High Capacity Conversion-Type Cathodes: Impact of Composition on Stability and Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1800213	21.8	15
34	Toward a Long-Chain Perfluoroalkyl Replacement: Water and Oil Repellency of Polyethylene Terephthalate (PET) Films Modified with Perfluoropolyether-Based Polyesters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24318-24330	9.5	15
33	Robust and Flexible Micropatterned Electrodes and Micro-Supercapacitors in Graphene/Silk Biopapers. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801203	4.6	13
32	Supercapacitors specialities - Technology review 2014 ,		12
31	Tuning Low Concentration Electrolytes for High Rate Performance in Lithium-Sulfur Batteries. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 100512	3.9	10
30	A nanoconfined iron(III) fluoride cathode in a NaDFOB electrolyte: towards high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4091-4098	13	10
29	Strategies for fabrication, confinement and performance boost of Li ₂ S in lithium-sulfur, silicon-sulfur & related batteries. <i>Materials Today</i> , 2021 , 49, 253-253	21.8	10
28	A Naphthalene Diimide Covalent Organic Framework: Comparison of Cathode Performance in Lithium-Ion Batteries with Amorphous Cross-linked and Linear Analogues, and Its Use in Aqueous Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 350-356	6.1	10
27	Enhancing electrochemical performance of LiFePO ₄ by vacuum-infiltration into expanded graphite for aqueous Li-ion capacitors. <i>Electrochimica Acta</i> , 2017 , 253, 413-421	6.7	9
26	High Temperature Functionalization and Surface Modification of Nanodiamond Powders. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1039, 1		9
25	Mechanisms of Transformation of Bulk Aluminum-Lithium Alloys to Aluminum Metal-Organic Nanowires. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12493-12500	16.4	8
24	Small-Angle Neutron Scattering for In Situ Probing of Ion Adsorption Inside Micropores. <i>Angewandte Chemie</i> , 2013 , 125, 4716-4720	3.6	7
23	Conformal vapor deposition of iron phosphate onto carbon nanotubes for flexible high-rate cathodes. <i>Materials Today Energy</i> , 2018 , 8, 143-150	7	5
22	Electrodeposition of Nanostructured Magnesium Coatings. <i>Nanomaterials and Nanotechnology</i> , 2014 , 4, 30	2.9	5
21	Iron Phosphide Confined in Carbon Nanofibers as a Free-Standing Flexible Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34074-34083	9.5	5
20	Flexible Nanofiber-Reinforced Solid Polymer Lithium-Ion Battery. <i>Energy Technology</i> , 2019 , 7, 1900064	3.5	4

19	Effect of defects on graphitization of SiC. <i>Journal of Materials Research</i> , 2013 , 28, 952-957	2.5	4
18	Carbide-Derived Carbon. <i>Advanced Materials and Technologies</i> , 2006 , 211-254		4
17	Conversion of Mg-Li Bimetallic Alloys to Magnesium Alkoxide and Magnesium Oxide Ceramic Nanowires. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 403-408	16.4	4
16	Minimizing Long-Chain Polysulfide Formation in Li-S Batteries by Using Localized Low Concentration Highly Fluorinated Electrolytes. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 090543 ³⁻⁹		4
15	Nanostructured Activated Carbons for Supercapacitors 2015 , 1-34		3
14	Synthesis of copper oxide nanowires and nanoporous copper via environmentally friendly transformation of bulk copper-calcium alloys. <i>Chemical Communications</i> , 2018 , 54, 5446-5449	5.8	3
13	Capacitive Energy Storage. <i>World Scientific Series in Current Energy Issues</i> , 2017 , 167-214	0.2	3
12	Bactericidal activity of chlorine-loaded carbide-derived carbon against Escherichia coli and Bacillus anthracis. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 607-13	5.4	3
11	Carbons from Biomass for Electrochemical Capacitors. <i>Biofuels and Biorefineries</i> , 2019 , 153-184	0.3	2
10	Ion Conductivities: Protons Enhance Conductivities in Lithium Halide Hydroxide/Lithium Oxyhalide Solid Electrolytes by Forming Rotating Hydroxy Groups (Adv. Energy Mater. 3/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870014	21.8	2
9	Lithium Sulfide Cathodes: A Hierarchical Particle@Shell Architecture for Long-Term Cycle Stability of Li ₂ S Cathodes (Adv. Mater. 37/2015). <i>Advanced Materials</i> , 2015 , 27, 5578-5578	24	1
8	Nanostructured composites for high energy batteries and supercapacitors 2015 ,		1
7	Capacitive Electric Storage. <i>Materials and Energy</i> , 2013 , 373-404		1
6	Conversion of Mg-Li Bimetallic Alloys to Magnesium Alkoxide and Magnesium Oxide Ceramic Nanowires. <i>Angewandte Chemie</i> , 2020 , 132, 411-416	3.6	1
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