Gleb Yushin

List of Publications by Year in descending order

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163 papers	34,766 citations	5876 81 h-index	5519 163 g-index
172 all docs	172 docs citations	172 times ranked	29185 citing authors

#	Article	IF	Citations
1	Li-ion battery materials: present and future. Materials Today, 2015, 18, 252-264.	8.3	5,353
2	Anomalous Increase in Carbon Capacitance at Pore Sizes Less Than 1 Nanometer. Science, 2006, 313, 1760-1763.	6.0	3,404
3	Challenges Facing Lithium Batteries and Electrical Doubleâ€Layer Capacitors. Angewandte Chemie - International Edition, 2012, 51, 9994-10024.	7.2	2,407
4	High-performance lithium-ion anodes using a hierarchical bottom-up approach. Nature Materials, 2010, 9, 353-358.	13.3	1,844
5	A Major Constituent of Brown Algae for Use in High-Capacity Li-Ion Batteries. Science, 2011, 334, 75-79.	6.0	1,549
6	Toward Efficient Binders for Li-Ion Battery Si-Based Anodes: Polyacrylic Acid. ACS Applied Materials & Interfaces, 2010, 2, 3004-3010.	4.0	901
7	Control of sp2/sp3Carbon Ratio and Surface Chemistry of Nanodiamond Powders by Selective Oxidation in Air. Journal of the American Chemical Society, 2006, 128, 11635-11642.	6.6	809
8	Electrochemical performance of carbon onions, nanodiamonds, carbon black and multiwalled nanotubes in electrical double layer capacitors. Carbon, 2007, 45, 2511-2518.	5.4	659
9	Effect of pore size and surface area of carbide derived carbons on specific capacitance. Journal of Power Sources, 2006, 158, 765-772.	4.0	591
10	Highâ€Capacity Anode Materials for Lithiumâ€Ion Batteries: Choice of Elements and Structures for Active Particles. Particle and Particle Systems Characterization, 2014, 31, 317-336.	1.2	583
11	Conversion cathodes for rechargeable lithium and lithium-ion batteries. Energy and Environmental Science, 2017, 10, 435-459.	15.6	545
12	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for Highâ€Performance Supercapacitor Electrodes. Advanced Energy Materials, 2011, 1, 356-361.	10.2	538
13	Nanostructured activated carbons from natural precursors for electrical double layer capacitors. Nano Energy, 2012, 1, 552-565.	8.2	468
14	Review of nanostructured carbon materials for electrochemical capacitor applications: advantages and limitations of activated carbon, carbideâ€derived carbon, zeoliteâ€templated carbon, carbon aerogels, carbon nanotubes, onionâ€like carbon, and graphene. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 424-473.	1.9	459
15	Atomic layer deposition of vanadium oxide on carbon nanotubes for high-power supercapacitor electrodes. Energy and Environmental Science, 2012, 5, 6872.	15.6	453
16	High-Rate Electrochemical Capacitors Based on Ordered Mesoporous Silicon Carbide-Derived Carbon. ACS Nano, 2010, 4, 1337-1344.	7.3	447
17	Polypyrroleâ€Derived Activated Carbons for Highâ€Performance Electrical Doubleâ€Layer Capacitors with Ionic Liquid Electrolyte. Advanced Functional Materials, 2012, 22, 827-834.	7.8	396
18	Ten years left to redesign lithium-ion batteries. Nature, 2018, 559, 467-470.	13.7	393

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19	Carbide-Derived Carbons: Effect of Pore Size on Hydrogen Uptake and Heat of Adsorption. Advanced Functional Materials, 2006, 16, 2288-2293.	7.8	379
20	Titanium carbide derived nanoporous carbon for energy-related applications. Carbon, 2006, 44, 2489-2497.	5.4	351
21	Materials for supercapacitors: When Li-ion battery power is not enough. Materials Today, 2018, 21, 419-436.	8.3	335
22	Tailoring of Nanoscale Porosity in Carbide-Derived Carbons for Hydrogen Storage. Journal of the American Chemical Society, 2005, 127, 16006-16007.	6.6	318
23	Sulfur-containing activated carbons with greatly reduced content of bottle neck pores for double-layer capacitors: a case study for pseudocapacitance detection. Energy and Environmental Science, 2013, 6, 2465.	15.6	309
24	Lithium Iodide as a Promising Electrolyte Additive for Lithiumâ€“Sulfur Batteries: Mechanisms of Performance Enhancement. Advanced Materials, 2015, 27, 101-108.	11.1	304
25	Deformations in Siâ”Li Anodes Upon Electrochemical Alloying in Nano-Confined Space. Journal of the American Chemical Society, 2010, 132, 8548-8549.	6.6	300
26	Sulfurâ€Infiltrated Microâ€and Mesoporous Silicon Carbideâ€Derived Carbon Cathode for Highâ€Performance Lithium Sulfur Batteries. Advanced Materials, 2013, 25, 4573-4579.	11.1	296
27	Hierarchical Microâ€and Mesoporous Carbideâ€Derived Carbon as a Highâ€Performance Electrode Material in Supercapacitors. Small, 2011, 7, 1108-1117.	5.2	283
28	Nanodiamond-Polymer Composite Fibers and Coatings. ACS Nano, 2009, 3, 363-369.	7.3	278
29	Towards Ultrathick Battery Electrodes: Aligned Carbon Nanotube â€“ Enabled Architecture. Advanced Materials, 2012, 24, 533-537.	11.1	257
30	Detonation Nanodiamond and Onionâ€Likeâ€Carbonâ€Embedded Polyaniline for Supercapacitors. Advanced Functional Materials, 2010, 20, 3979-3986.	7.8	245
31	Nanosiliconâ€Coated Graphene Granules as Anodes for Liâ€ion Batteries. Advanced Energy Materials, 2011, 1, 495-498.	10.2	241
32	Chemical vapor deposition and atomic layer deposition for advanced lithium ion batteries and supercapacitors. Energy and Environmental Science, 2015, 8, 1889-1904.	15.6	236
33	In Situ Formation of Protective Coatings on Sulfur Cathodes in Lithium Batteries with LiFSIâ€Based Organic Electrolytes. Advanced Energy Materials, 2015, 5, 1401792.	10.2	189
34	Tailoring the Pore Alignment for Rapid Ion Transport in Microporous Carbons. Journal of the American Chemical Society, 2010, 132, 3252-3253.	6.6	175
35	Effect of Carbon Particle Size on Electrochemical Performance of EDLC. Journal of the Electrochemical Society, 2008, 155, A531.	1.3	173
36	Carbide-derived carbon aerogels with tunable pore structure as versatile electrode material in high power supercapacitors. Carbon, 2017, 113, 283-291.	5.4	171

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37	Synthesis, structure and porosity analysis of microporous and mesoporous carbon derived from zirconium carbide. Microporous and Mesoporous Materials, 2005, 86, 50-57.	2.2	161
38	Ultra Strong Silicon-Coated Carbon Nanotube Nonwoven Fabric as a Multifunctional Lithium-Ion Battery Anode. ACS Nano, 2012, 6, 9837-9845.	7.3	161
39	Hydrothermal synthesis of microalgae-derived microporous carbons for electrochemical capacitors. Journal of Power Sources, 2014, 267, 26-32.	4.0	158
40	Effects of Dissolved Transition Metals on the Electrochemical Performance and SEI Growth in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2014, 161, A1915-A1921.	1.3	153
41	Microâ€•and Mesoporous Carbideâ€Derived Carbonâ€“Selenium Cathodes for Highâ€Performance Lithium Selenium Batteries. Advanced Energy Materials, 2015, 5, 1400981.	10.2	144
42	Grapheneâ€“Li₂Sâ€“Carbon Nanocomposite for Lithiumâ€“Sulfur Batteries. ACS Nano, 2016, 10, 1333-1340.	7.3	144
43	Synthesis and electrochemical performance of reduced graphene oxide/maghemite composite anode for lithium ion batteries. Carbon, 2013, 52, 56-64.	5.4	143
44	Curvature effects in carbon nanomaterials: Exohedral versus endohedral supercapacitors. Journal of Materials Research, 2010, 25, 1525-1531.	1.2	142
45	A cubic ordered, mesoporous carbide-derived carbon for gas and energy storage applications. Carbon, 2010, 48, 3987-3992.	5.4	140
46	Multifunctional CNTâ€Polymer Composites for Ultraâ€Tough Structural Supercapacitors and Desalination Devices. Advanced Materials, 2013, 25, 6625-6632.	11.1	140
47	Synthesis of nanoporous carbide-derived carbon by chlorination of titanium silicon carbide. Carbon, 2005, 43, 2075-2082.	5.4	139
48	Harnessing Steric Separation of Freshly Nucleated Li₂S Nanoparticles for Bottomâ€Up Assembly of Highâ€Performance Cathodes for Lithiumâ€Sulfur and Lithiumâ€Ion Batteries. Advanced Energy Materials, 2014, 4, 1400196.	10.2	135
49	Hierarchical Fabric Decorated with Carbon Nanowire/Metal Oxide Nanocomposites for 1.6 V Wearable Aqueous Supercapacitors. Advanced Energy Materials, 2018, 8, 1703454.	10.2	135
50	Plasmaâ€Enhanced Atomic Layer Deposition of Ultrathin Oxide Coatings for Stabilized Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2013, 3, 1308-1315.	10.2	133
51	Nanoporous Li₂S and MWCNT-linked Li₂S powder cathodes for lithium-sulfur and lithium-ion battery chemistries. Journal of Materials Chemistry A, 2014, 2, 6064-6070.	5.2	128
52	Cycle stability of conversion-type iron fluoride lithium battery cathode at elevated temperatures in polymer electrolyte composites. Nature Materials, 2019, 18, 1343-1349.	13.3	127
53	Ex-situ depth-sensing indentation measurements of electrochemically produced Siâ€“Li alloy films. Electrochemistry Communications, 2011, 13, 818-821.	2.3	125
54	Noncatalytic synthesis of carbon nanotubes, graphene and graphite on SiC. Carbon, 2008, 46, 841-849.	5.4	123

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55	Mesoporous carbide-derived carbon with porosity tuned for efficient adsorption of cytokines. Biomaterials, 2006, 27, 5755-5762.	5.7	119
56	Analysis of Lithium Insertion/Deinsertion in a Silicon Electrode Particle at Room Temperature. Journal of the Electrochemical Society, 2010, 157, A1139.	1.3	112
57	A Hierarchical Particleâ€“Shell Architecture for Longâ€Term Cycle Stability of Li₂S Cathodes. Advanced Materials, 2015, 27, 5579-5586.	11.1	111
58	Micro and mesoporosity of carbon derived from ternary and binary metal carbides. Microporous and Mesoporous Materials, 2008, 112, 526-532.	2.2	108
59	Effect of sintering on structure of nanodiamond. Diamond and Related Materials, 2005, 14, 1721-1729.	1.8	106
60	Electrical double layer capacitors with sucrose derived carbon electrodes in ionic liquid electrolytes. Journal of Power Sources, 2011, 196, 4072-4079.	4.0	105
61	Electrolyte melt infiltration for scalable manufacturing of inorganic all-solid-state lithium-ion batteries. Nature Materials, 2021, 20, 984-990.	13.3	105
62	Layered LiTiO₂ for the protection of Li₂S cathodes against dissolution: mechanisms of the remarkable performance boost. Energy and Environmental Science, 2018, 11, 807-817.	15.6	103
63	Functionalized carbon onions, detonation nanodiamond and mesoporous carbon as cathodes in Li-ion electrochemical energy storage devices. Carbon, 2013, 53, 292-301.	5.4	102
64	Infiltrated Porous Polymer Sheets as Freeâ€Standing Flexible Lithiumâ€Sulfur Battery Electrodes. Advanced Materials, 2016, 28, 6365-6371.	11.1	102
65	Solid-state lithiumâ€“sulfur batteries: Advances, challenges and perspectives. Materials Today, 2020, 40, 114-131.	8.3	100
66	Solutionâ€Based Processing of Grapheneâ€“Li₂S Composite Cathodes for Lithiumâ€Ion and Lithiumâ€“Sulfur Batteries. Particle and Particle Systems Characterization, 2014, 31, 639-644.	1.2	99
67	Lithium Titanate Confined in Carbon Nanopores for Asymmetric Supercapacitors. ACS Nano, 2016, 10, 3977-3984.	7.3	99
68	Battery materials for low-cost electric transportation. Materials Today, 2021, 42, 57-72.	8.3	98
69	Iron Fluorideâ€“Carbon Nanocomposite Nanofibers as Freeâ€Standing Cathodes for Highâ€Energy Lithium Batteries. Advanced Functional Materials, 2018, 28, 1801711.	7.8	97
70	In Situ Studies of Ion Transport in Microporous Supercapacitor Electrodes at Ultralow Temperatures. Advanced Functional Materials, 2012, 22, 1655-1662.	7.8	96
71	Anisotropic Etching of SiC Whiskers. Nano Letters, 2006, 6, 548-551.	4.5	93
72	Chemical Vapor Deposition of Aluminum Nanowires on Metal Substrates for Electrical Energy Storage Applications. ACS Nano, 2012, 6, 118-125.	7.3	93

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73	In Situ TEM Observation of Electrochemical Lithiation of Sulfur Confined within Inner Cylindrical Pores of Carbon Nanotubes. Advanced Energy Materials, 2015, 5, 1501306.	10.2	93
74	Boosting High-Performance in Lithiumâ€“Sulfur Batteries via Dilute Electrolyte. Nano Letters, 2020, 20, 5391-5399.	4.5	93
75	Formation of Carbide-Derived Carbon on beta-Silicon Carbide Whiskers. Journal of the American Ceramic Society, 2006, 89, 509-514.	1.9	92
76	Lithographically Patterned Thin Activated Carbon Films as a New Technology Platform for On-Chip Devices. ACS Nano, 2013, 7, 6498-6506.	7.3	90
77	Understanding the Exceptional Performance of Lithiumâ€Ion Battery Cathodes in Aqueous Electrolytes at Subzero Temperatures. Advanced Energy Materials, 2018, 8, 1802624.	10.2	90
78	In Situ Small Angle Neutron Scattering Revealing Ion Sorption in Microporous Carbon Electrical Double Layer Capacitors. ACS Nano, 2014, 8, 2495-2503.	7.3	89
79	Synthesis of Carbide-Derived Carbon by Chlorination of Ti2AlC. Chemistry of Materials, 2005, 17, 2317-2322.	3.2	87
80	Electrical double layer capacitors with activated sucrose-derived carbon electrodes. Carbon, 2011, 49, 4830-4838.	5.4	85
81	High temperature stabilization of lithiumâ€“sulfur cells with carbon nanotube current collector. Journal of Power Sources, 2013, 226, 256-265.	4.0	83
82	Carbon Nanotubeâ€“CoF₂ Multifunctional Cathode for Lithium Ion Batteries: Effect of Electrolyte on Cycle Stability. Small, 2015, 11, 5164-5173.	5.2	80
83	Degradation and stabilization of lithium cobalt oxide in aqueous electrolytes. Energy and Environmental Science, 2016, 9, 1841-1848.	15.6	80
84	Double-Layer Capacitance of Carbide Derived Carbons in Sulfuric Acid. Electrochemical and Solid-State Letters, 2005, 8, A357.	2.2	79
85	Carbide-Derived Carbons:Â A Comparative Study of Porosity Based on Small-Angle Scattering and Adsorption Isotherms. Langmuir, 2006, 22, 8945-8950.	1.6	79
86	Sulfur infiltrated activated carbon cathodes for lithium sulfur cells: The combined effects of pore size distribution and electrolyte molarity. Journal of Power Sources, 2014, 248, 752-761.	4.0	77
87	Transformation of bulk alloys to oxide nanowires. Science, 2017, 355, 267-271.	6.0	76
88	Enhancing performance of Liâ€“S cells using a Liâ€“Al alloy anode coating. Electrochemistry Communications, 2013, 36, 38-41.	2.3	75
89	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. Carbon, 2013, 52, 388-397.	5.4	75
90	Lithiumâ€“Iron Fluoride Battery with In Situ Surface Protection. Advanced Functional Materials, 2016, 26, 1507-1516.	7.8	73

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91	Lithiumâ€“Iron (III) Fluoride Battery with Double Surface Protection. Advanced Energy Materials, 2018, 8, 1800721.	10.2	67
92	Materials and technologies for multifunctional, flexible or integrated supercapacitors and batteries. Materials Today, 2021, 48, 176-197.	8.3	66
93	Increase of nanodiamond crystal size by selective oxidation. Diamond and Related Materials, 2008, 17, 1122-1126.	1.8	65
94	Protons Enhance Conductivities in Lithium Halide Hydroxide/Lithium Oxyhalide Solid Electrolytes by Forming Rotating Hydroxy Groups. Advanced Energy Materials, 2018, 8, 1700971.	10.2	65
95	Performance Enhancement and Side Reactions in Rechargeable Nickelâ€“Iron Batteries with Nanostructured Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 2088-2096.	4.0	62
96	Fading Mechanisms and Voltage Hysteresis in FeF₂â€“NiF₂ Solid Solution Cathodes for Lithium and Lithiumâ€Ion Batteries. Small, 2019, 15, e1804670.	5.2	62
97	Smallâ€Angle Neutron Scattering for Inâ€…Situ Probing of Ion Adsorption Inside Micropores. Angewandte Chemie - International Edition, 2013, 52, 4618-4622.	7.2	61
98	Enhancing the Stability of Sulfur Cathodes in Liâ€“S Cells via in Situ Formation of a Solid Electrolyte Layer. ACS Energy Letters, 2016, 1, 373-379.	8.8	61
99	Aqueous solutions of acidic ionic liquids for enhanced stability of polyoxometalate-carbon supercapacitor electrodes. Journal of Power Sources, 2016, 326, 569-574.	4.0	59
100	Charge storage at the nanoscale: understanding the trends from the molecular scale perspective. Journal of Materials Chemistry A, 2017, 5, 21049-21076.	5.2	58
101	Insights into the Effects of Electrolyte Composition on the Performance and Stability of FeF₂ Conversionâ€Type Cathodes. Advanced Energy Materials, 2019, 9, 1803323.	10.2	56
102	Micro- and mesoporous carbide-derived carbon prepared by a sacrificial template method in high performance lithium sulfur battery cathodes. Journal of Materials Chemistry A, 2014, 2, 17649-17654.	5.2	54
103	Nanostructured Li2Se cathodes for high performance lithium-selenium batteries. Nano Energy, 2016, 27, 238-246.	8.2	54
104	Toward in-situ protected sulfur cathodes by using lithium bromide and pre-charge. Nano Energy, 2017, 40, 170-179.	8.2	53
105	Atom-economic synthesis of MagnÃ©li phase Ti4O7 microspheres for improved sulfur cathodes for Liâ€“S batteries. Nano Energy, 2021, 79, 105428.	8.2	49
106	In situ surface protection for enhancing stability and performance of conversion-type cathodes. MRS Energy & Sustainability, 2017, 4, 1.	1.3	47
107	Mesoporous carbide-derived carbon for cytokine removal from blood plasma. Biomaterials, 2010, 31, 4789-4794.	5.7	46
108	N-Nitrosamines Formation from Secondary Amines by Nitrogen Fixation on the Surface of Activated Carbon. Environmental Science & Technology, 2011, 45, 8368-8376.	4.6	46

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109	A stable lithiated siliconâ€“chalcogen battery via synergetic chemical coupling between silicon and selenium. Nature Communications, 2017, 8, 13888.	5.8	46
110	Scalable, safe, high-rate supercapacitor separators based on the Al2O3 nanowire Polyvinyl butyral nonwoven membranes. Nano Energy, 2020, 71, 104627.	8.2	43
111	Influence of annealing on ionic transfer and storage stability of Li2Sâ€“P2S5 solid electrolyte. Journal of Power Sources, 2015, 294, 494-500.	4.0	41
112	Influence of Binders, Carbons, and Solvents on the Stability of Phosphorus Anodes for Li-ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 25991-26001.	4.0	41
113	Formation of Porous SiC Ceramics by Pyrolysis of Wood Impregnated with Silica. International Journal of Applied Ceramic Technology, 2006, 3, 485-490.	1.1	39
114	Anatase TiO₂ Confined in Carbon Nanopores for Highâ€Energy Liâ€ion Hybrid Supercapacitors Operating at High Rates and Subzero Temperatures. Advanced Energy Materials, 2020, 10, 1902993.	10.2	39
115	The Role of Nanostructure in the Electrochemical Oxidation of Model-Carbon Materials in Acidic Environments. Journal of the Electrochemical Society, 2010, 157, B820.	1.3	37
116	Enhancing Cycle Stability of Lithium Iron Phosphate in Aqueous Electrolytes by Increasing Electrolyte Molarity. Advanced Energy Materials, 2016, 6, 1501805.	10.2	37
117	Morphology and Phase Changes in Iron Anodes Affecting their Capacity and Stability in Rechargeable Alkaline Batteries. ACS Energy Letters, 2018, 3, 794-801.	8.8	35
118	Iron Phosphate Coated Flexible Carbon Nanotube Fabric as a Multifunctional Cathode for Naâ€ion Batteries. Small, 2018, 14, e1703425.	5.2	33
119	Stabilization of selenium cathodes via in situ formation of protective solid electrolyte layer. Journal of Materials Chemistry A, 2014, 2, 18898-18905.	5.2	32
120	Iron oxide nanoconfined in carbon nanopores as high capacity anode for rechargeable alkaline batteries. Nano Energy, 2018, 48, 170-179.	8.2	31
121	Aluminum oxide nanowires as safe and effective adjuvants for next-generation vaccines. Materials Today, 2019, 22, 58-66.	8.3	30
122	Increasing Capacitance of Zeolite-Templated Carbons in Electric Double Layer Capacitors. Journal of the Electrochemical Society, 2015, 162, A5070-A5076.	1.3	29
123	Mixed Metal Difluorides as High Capacity Conversionâ€Type Cathodes: Impact of Composition on Stability and Performance. Advanced Energy Materials, 2018, 8, 1800213.	10.2	29
124	Understanding Liâ€ion Dynamics in Lithium Hydroxychloride (Li 2 OHCl) Solid State Electrolyte via Addressing the Role of Protons. Advanced Energy Materials, 2020, 10, 1903480.	10.2	29
125	Strategies for fabrication, confinement and performance boost of Li2S in lithium-sulfur, silicon-sulfur & related batteries. Materials Today, 2021, 49, 253-270.	8.3	29
126	A nanoconfined iron(<scp>iii</scp>) fluoride cathode in a NaDFOB electrolyte: towards high-performance sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 4091-4098.	5.2	28

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127	Tuning Low Concentration Electrolytes for High Rate Performance in Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2020, 167, 100512.	1.3	24
128	Iron Phosphide Confined in Carbon Nanofibers as a Free-Standing Flexible Anode for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 34074-34083.	4.0	24
129	Revealing Rate Limitations in Nanocrystalline Li₄Ti₅O₁₂ Anodes for Highâ€Power Lithium Ion Batteries. Advanced Materials Interfaces, 2016, 3, 1600003.	1.9	21
130	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. ACS Applied Energy Materials, 2021, 4, 350-356.	2.5	20
131	Toward a Long-Chain Perfluoroalkyl Replacement: Water and Oil Repellency of Polyethylene Terephthalate (PET) Films Modified with Perfluoropolyether-Based Polyesters. ACS Applied Materials & Interfaces, 2017, 9, 24318-24330.	4.0	19
132	Plasma pressure compaction of nanodiamond. Diamond and Related Materials, 2007, 16, 1967-1973.	1.8	18
133	Carbide-derived carbon membrane. Materials Chemistry and Physics, 2008, 112, 587-591.	2.0	18
134	Supercapacitors specialities - Technology review. AIP Conference Proceedings, 2014, , .	0.3	18
135	Robust and Flexible Micropatterned Electrodes and Microâ€Supercapacitors in Grapheneâ€“Silk Biopapers. Advanced Materials Interfaces, 2018, 5, 1801203.	1.9	16
136	Mechanisms of Transformation of Bulk Aluminumâ€“Lithium Alloys to Aluminum Metalâ€“Organic Nanowires. Journal of the American Chemical Society, 2018, 140, 12493-12500.	6.6	15
137	Enhancing electrochemical performance of LiFePO4 by vacuum-infiltration into expanded graphite for aqueous Li-ion capacitors. Electrochimica Acta, 2017, 253, 413-421.	2.6	11
138	Electrodeposition of Nanostructured Magnesium Coatings. Nanomaterials and Nanotechnology, 2014, 4, 30.	1.2	10
139	High Temperature Functionalization and Surface Modification of Nanodiamond Powders. Materials Research Society Symposia Proceedings, 2007, 1039, 1.	0.1	9
140	Conversion of Mgâ€Li Bimetallic Alloys to Magnesium Alkoxide and Magnesium Oxide Ceramic Nanowires. Angewandte Chemie - International Edition, 2020, 59, 403-408.	7.2	9
141	Carbide-Derived Carbon. Advanced Materials and Technologies, 2006, , 211-254.	0.4	9
142	Minimizing Long-Chain Polysulfide Formation in Li-S Batteries by Using Localized Low Concentration Highly Fluorinated Electrolytes. Journal of the Electrochemical Society, 2021, 168, 090543.	1.3	8
143	Bactericidal activity of chlorineâ€loaded carbideâ€derived carbon against Escherichia coli and Bacillus anthracis. Journal of Biomedical Materials Research - Part A, 2008, 84A, 607-613.	2.1	6
144	Flexible Nanofiberâ€Reinforced Solid Polymer Lithiumâ€Ion Battery. Energy Technology, 2019, 7, 1900064.	1.8	6

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145	Capacitive Energy Storage. World Scientific Series in Current Energy Issues, 2017, , 167-214.	0.1	5
146	Conformal vapor deposition of iron phosphate onto carbon nanotubes for flexible high-rate cathodes. Materials Today Energy, 2018, 8, 143-150.	2.5	5
147	Synthesis of copper oxide nanowires and nanoporous copper via environmentally friendly transformation of bulk copperâ€“calcium alloys. Chemical Communications, 2018, 54, 5446-5449.	2.2	5
148	High-Temperature Oxidation of Single Carbon Nanoparticles: Dependence on the Surface Structure and Probing Real-Time Structural Evolution via Kinetics. Journal of the American Chemical Society, 2022, 144, 4897-4912.	6.6	5
149	Stability of FeF₃-Based Sodium-Ion Batteries in Nonflammable Ionic Liquid Electrolytes at Room and Elevated Temperatures. ACS Applied Materials & Interfaces, 2022, 14, 33447-33456.	4.0	5
150	Effect of defects on graphitization of SiC. Journal of Materials Research, 2013, 28, 952-957.	1.2	4
151	Nanostructured composites for high energy batteries and supercapacitors. , 2015, , .		2
152	Ion Conductivities: Protons Enhance Conductivities in Lithium Halide Hydroxide/Lithium Oxyhalide Solid Electrolytes by Forming Rotating Hydroxy Groups (Adv. Energy Mater. 3/2018). Advanced Energy Materials, 2018, 8, 1870014.	10.2	2
153	Carbons from Biomass for Electrochemical Capacitors. Biofuels and Biorefineries, 2019, , 153-184.	0.5	2
154	Capacitive Electric Storage. Materials and Energy, 2013, , 373-404.	2.5	1
155	Lithium Sulfide Cathodes: A Hierarchical Particle-Shell Architecture for Long-Term Cycle Stability of Li2 S Cathodes (Adv. Mater. 37/2015). Advanced Materials, 2015, 27, 5578-5578.	11.1	1
156	Conversion Cathodes: Lithiumâ€“Iron Fluoride Battery with In Situ Surface Protection (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.8	1
157	Lithium Titanate Confined in Nanoporous Copper for High-Rate Battery Applications. MRS Advances, 2018, 3, 1249-1253.	0.5	1
158	Conversion of Mgâ€“Li Bimetallic Alloys to Magnesium Alkoxide and Magnesium Oxide Ceramic Nanowires. Angewandte Chemie, 2020, 132, 411-416.	1.6	1
159	Strain-Induced Transformation of Bulk Alloys to Zinc Nanowires. Chemistry of Materials, 2021, 33, 5368-5376.	3.2	1
160	Ex Situ Depth-Sensing Indentation Measurements of Electrochemically Produced Si-Li Alloy Films. ECS Meeting Abstracts, 2011, , .	0.0	0
161	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. Advanced Energy Materials, 2011, , n/a-n/a.	10.2	0
162	Synthesis of Mg Alkoxide Nanowires from Mg Alkoxide Nanoparticles upon Ligand Exchange. ACS Applied Materials & Interfaces, 2022, 14, 13820-13827.	4.0	0

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163	Capacitive Energy Storage. World Scientific Series in Current Energy Issues, 2017, , 167-214.	0.1	0