Kwang-Bum Kim

List of Publications by Year
in descending order

229	11,532	25034	36028
papers	citations	57 h-index	97 g-index

237	237	237	13517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Amorphization of germanium selenide driven by chemical interaction with carbon and realization of reversible conversion-alloying reaction for superior K-ion storage. Chemical Engineering Journal, 2022, 430, 132995.	12.7	6
2	Graphene with nanoperforation for high-capacity potassium-ion storage: Decoupling structural defect and doping effects of N-doped graphene. Chemical Engineering Journal, 2022, 432, 134260.	12.7	11
3	Realization of Sn2P2S6-carbon nanotube anode with high K+/Na+ storage performance via rational interface manipulationâ€“induced shuttle-effect inhibition and self-healing. Chemical Engineering Journal, 2022, 435, 134965.	12.7	19
4	Structurally Reinforced Silicon/Graphene Composite for Lithiumâ€Ion Battery Anodes: Carbon Anchor as a Conductive Structural Support. ChemSusChem, 2022, 15, .	6.8	6
5	Mechanically Resilient Graphene Assembly Microspheres with Interlocked Nâ€Doped Graphene Nanostructures Grown In Situ for Highly Stable Lithium Metal Anodes. Advanced Functional Materials, 2022, 32, .	14.9	10
6	Predelithiation-driven ultrastable Na-ion battery performance using Si,P-rich ternary M-Si-P anodes. Energy Storage Materials, 2022, 49, 421-432.	18.0	4
7	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. Progress in Materials Science, 2021, 116, 100716.	32.8	30
8	Thermoâ€Adaptive Block Copolymer Structural Color Electronics. Advanced Functional Materials, 2021, 31, 2008548.	14.9	39
9	Top-Down Syntheses of Nickel-Based Structured Catalysts for Hydrogen Production from Ammonia. ACS Applied Materials & Interfaces, 2021, 13, 597-607.	8.0	8
10	Si,P vacancy-enriched CoSi3P3 anode with exceptional Li storage performance. Energy Storage Materials, 2021, 36, 229-241.	18.0	16
11	Synthesis of porosity controllable nanoporous silicon with a self-coated nickel layer for lithium-ion batteries. Journal of Power Sources, 2021, 495, 229802.	7.8	9
12	Development of 3D open-cell structured Co-Ni catalysts by pulsed electrodeposition for hydrolysis of sodium borohydride. Applied Surface Science, 2021, 554, 149530.	6.1	14
13	In Situ Growth of Novel Graphene Nanostructures in Reduced Graphene Oxide Microspherical Assembly with Restackingâ€Resistance and Interâ€Particle Contacts for Energy Storage Devices. Small, 2021, 17, e2101930.	10.0	7
14	Efficient stress alleviation and interface regulation in Cu4SiP8-CNT hybrid for ultra-durable Li and Na storage. Nano Energy, 2021, 86, 106134.	16.0	14
15	Synergistic effect of graphene nanoperforation on the reversibility of the conversion reaction of a SnO2/nanoperforated graphene composite. Chemical Engineering Journal, 2021, 417, 128542.	12.7	15
16	Conductorâ€Free Anode of Transition Metal Dichalcogenide Nanosheets Selfâ€Assembled with Graft Polymer Liâ€Ion Channels. Advanced Energy Materials, 2021, 11, 2003243.	19.5	11
17	Facile synthesis of micro-sized Niâ€“Al alloy powders through low-temperature chemical alloying. Journal of Alloys and Compounds, 2020, 815, 152392.	5.5	4
18	Compact graphene powders with high volumetric capacitance: Microspherical assembly of graphene via surface modification using cyanamide. Energy Storage Materials, 2020, 24, 351-361.	18.0	38

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19	Phase transformation of spinel Li4Ti5O12 to anatase TiO2 by catalytic delithiation. Energy Storage Materials, 2020, 25, 510-519.	18.0	5
20	Polyol-mediated carbon-coated Li4Ti5O12 nanoparticle/graphene composites with long-term cycling stability for lithium and sodium ion storages. Chemical Engineering Journal, 2020, 385, 123984.	12.7	32
21	Triethoxysilane-derived SiO_x-assisted structural reinforcement of Si/carbon nanotube composite for lithium-ion battery. Nanoscale, 2020, 12, 22140-22149.	5.6	8
22	Competing effects of potassium hydroxide activation of graphene on gravimetric and volumetric capacitances. Journal of Power Sources, 2020, 479, 229076.	7.8	6
23	NaTi2(PO4)3 nanoparticles embedded in double carbon networks as a negative electrode for an aqueous sodium-polyiodide flow battery. Electrochimica Acta, 2020, 361, 137075.	5.2	7
24	Development of porous nickel catalysts by low-temperature Niâ€“Al chemical alloying and post selective Al leaching, and their application for ammonia decomposition. International Journal of Hydrogen Energy, 2020, 45, 19181-19191.	7.1	16
25	Surface area enhancement of nickel foam by low-temperature chemical alloying/dealloying and its application for sodium borohydride hydrolysis. Journal of Alloys and Compounds, 2020, 843, 155759.	5.5	14
26	Transparent SiN thin-film anode for thin-film batteries by reactive sputtering at room temperature. Chemical Engineering Journal, 2020, 401, 126086.	12.7	5
27	Hybrid Thin-Film Encapsulation for All-Solid-State Thin-Film Batteries. ACS Applied Materials & Interfaces, 2020, 12, 11504-11510.	8.0	11
28	Defect-rich Ni3Sn4 quantum dots anchored on graphene sheets exhibiting unexpected reversible conversion reactions with exceptional lithium and sodium storage performance. Applied Surface Science, 2020, 526, 146756.	6.1	12
29	Facile Modification of LiAlCl₄ Electrolytes for Mgâ€“Li Hybrid Batteries by the Conditioning-Free Method. Journal of Physical Chemistry C, 2020, 124, 25738-25747.	3.1	3
30	Exceptionally Reversible Li-/Na-Ion Storage and Ultrastable Solid-Electrolyte Interphase in Layered GeP₅ Anode. ACS Applied Materials & Interfaces, 2019, 11, 32815-32825.	8.0	28
31	A holey graphene-based hybrid supercapacitor. Chemical Engineering Journal, 2019, 378, 122126.	12.7	79
32	Carbon-free Mn-doped LiFePO4 cathode for highly transparent thin-film batteries. Journal of Power Sources, 2019, 434, 226713.	7.8	29
33	High-performance silicon diphosphide/nanocarbon composite anode for Li-ion batteries: Role of chemical bonding and interfaces in the establishment of cycling stability. Journal of Power Sources, 2019, 434, 226759.	7.8	17
34	Effect of thermally decomposable spacers on graphene microsphere structure and restacking of graphene sheets during electrode fabrication. Carbon, 2019, 150, 128-135.	10.3	17
35	MagnÃ©li Phase Titanium Oxide as a Novel Anode Material for Potassium-Ion Batteries. ACS Omega, 2019, 4, 5304-5309.	3.5	35
36	Revisiting NaTi2(PO4)3/nanocarbon composites prepared using nanocarbons with different dimensions for high-rate sodium-ion batteries: The surface properties of nanocarbons. Journal of Alloys and Compounds, 2019, 787, 728-737.	5.5	7

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37	Nanofiber Celluloseâ€Incorporated Nanomesh Grapheneâ€“Carbon Nanotube Buckypaper and Ionic Liquidâ€Based Solid Polymer Electrolyte for Flexible Supercapacitors. Energy Technology, 2019, 7, 1900014.	3.8	7
38	Ultra-fast shock-wave combustion synthesis of nanostructured silicon from sand with excellent Li storage performance. Sustainable Energy and Fuels, 2019, 3, 1396-1405.	4.9	20
39	Studying the reduction of graphene oxide with magnetic measurements. Carbon, 2019, 142, 373-378.	10.3	32
40	High-performance sodium hybrid capacitor enabled by presodiated Li4Ti5O12. Journal of Power Sources, 2019, 409, 48-57.	7.8	14
41	Rational design of oxide/carbon composites to achieve superior rate-capability via enhanced lithium-ion transport across carbon to oxide. Journal of Materials Chemistry A, 2018, 6, 6033-6044.	10.3	19
42	Bulk metal-derived metal oxide nanoparticles on oxidized carbon surface. Journal of Alloys and Compounds, 2018, 752, 198-205.	5.5	1
43	Lithiumâ€“Sulfur Capacitors. ACS Applied Materials & Interfaces, 2018, 10, 6199-6206.	8.0	7
44	Strong, persistent superficial oxidation-assisted chemical bonding of black phosphorus with multiwall carbon nanotubes for high-capacity ultradurable storage of lithium and sodium. Journal of Materials Chemistry A, 2018, 6, 10121-10134.	10.3	71
45	Orderly meso-perforated spherical and apple-shaped 3D carbon microstructures for high-energy supercapacitors and high-capacity Li-ion battery anodes. Journal of Materials Chemistry A, 2018, 6, 6422-6434.	10.3	15
46	Strategic Design of Highly Concentrated Electrolyte Solutions for Mg²⁺/Li⁺ Dual-Salt Hybrid Batteries. Journal of Physical Chemistry C, 2018, 122, 27866-27874.	3.1	8
47	Highly conductive carbon nanotube micro-spherical network for high-rate silicon anode. Journal of Power Sources, 2018, 394, 94-101.	7.8	60
48	Comparative Study of Li₄Ti₅O₁₂ Composites Prepared withPristine, Oxidized, and Surfactantâ€Treated Multiwalled Carbon Nanotubes for Highâ€Power Hybrid Supercapacitors. ChemElectroChem, 2018, 5, 2357-2366.	3.4	15
49	Scalable fabrication of flexible thin-film batteries for smart lens applications. Nano Energy, 2018, 53, 225-231.	16.0	53
50	Effect of 1-allyl-1-methylpyrrolidinium chloride addition to ethylmagnesium bromide electrolyte on a rechargeable magnesium battery. Electrochimica Acta, 2017, 231, 379-385.	5.2	13
51	Synthesis of LiFePO4/graphene microspheres while avoiding restacking of graphene sheetâ€™s for high-rate lithium-ion batteries. Journal of Industrial and Engineering Chemistry, 2017, 52, 251-259.	5.8	28
52	A study of the effects of synthesis conditions on Li5FeO4/carbon nanotube composites. Scientific Reports, 2017, 7, 46530.	3.3	12
53	Exploring Highâ€Energy Liâ€(r)on Batteries and Capacitors with Conversionâ€Type Fe₃O₄â€rGO as the Negative Electrode. ChemElectroChem, 2017, 4, 2626-2633.	3.4	10
54	Systematic Investigation into Mg²⁺/Li⁺ Dual-Cation Transport in Chevrel Phases Using Computational and Experimental Approaches. Journal of Physical Chemistry C, 2017, 121, 12617-12623.	3.1	14

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55	Li3PO4 surface coating on Ni-rich LiNi0.6Co0.2Mn0.2O2 by a citric acid assisted sol-gel method: Improved thermal stability and high-voltage performance. Journal of Power Sources, 2017, 360, 206-214.	7.8	210
56	A robust design of Ru quantum dot/N-doped holey graphene for efficient Liâ€“O₂batteries. Journal of Materials Chemistry A, 2017, 5, 619-631.	10.3	55
57	Self-assembled Li3V2(PO4)3/reduced graphene oxide multilayer composite prepared by sequential adsorption. Journal of Power Sources, 2017, 367, 167-176.	7.8	5
58	Surfactant-free synthesis of a nanoperforated graphene/nitrogen-doped carbon nanotube composite for supercapacitors. Journal of Materials Chemistry A, 2017, 5, 22607-22617.	10.3	13
59	Multimodal porous carbon derived from ionic liquids: correlation between pore sizes and ionic clusters. Nanoscale, 2017, 9, 14672-14681.	5.6	30
60	700ÂF hybrid capacitors cells composed of activated carbon and Li4Ti5O12 microspheres with ultra-long cycle life. Journal of Power Sources, 2017, 366, 200-206.	7.8	24
61	Large scale green production of ultra-high capacity anode consisting of graphene encapsulated silicon nanoparticles. Journal of Materials Chemistry A, 2017, 5, 19126-19135.	10.3	60
62	Rational hybrid modulation of P, N dual-doped holey graphene for high-performance supercapacitors. Journal of Power Sources, 2017, 372, 286-296.	7.8	51
63	Multi-functionalized herringbone carbon nanofiber for anodes of lithium ion batteries. Physical Chemistry Chemical Physics, 2017, 19, 18612-18618.	2.8	4
64	A chemically bonded NaTi₂(PO₄)₃/rGO microsphere composite as a high-rate insertion anode for sodium-ion capacitors. Journal of Materials Chemistry A, 2017, 5, 17506-17516.	10.3	80
65	Sandwich-type ordered mesoporous carbon/graphene nanocomposites derived from ionic liquid. Nano Research, 2016, 9, 2696-2706.	10.4	17
66	Micro batteries for driving glucose sensors on smart lenses. , 2016, , .		0
67	Dual coexisting interconnected graphene nanostructures for high performance supercapacitor applications. Energy and Environmental Science, 2016, 9, 2249-2256.	30.8	87
68	Three-dimensional graphene-based spheres and crumpled balls: micro- and nano-structures, synthesis strategies, properties and applications. RSC Advances, 2016, 6, 50941-50967.	3.6	33
69	In situ synthesis of chemically bonded NaTi2(PO4)3/rGO 2D nanocomposite for high-rate sodium-ion batteries. Nano Research, 2016, 9, 1844-1855.	10.4	69
70	Dodecylamine-derived thin carbon-coated single Fe₃O₄ nanocrystals for advanced lithium ion batteries. RSC Advances, 2016, 6, 37923-37928.	3.6	6
71	TiO2-reduced graphene oxide nanocomposites by microwave-assisted forced hydrolysis as excellent insertion anode for Li-ion battery and capacitor. Journal of Power Sources, 2016, 327, 171-177.	7.8	93
72	Grapheneâ€“Selenium Hybrid Microballs as Cathode Materials for High-performance Lithiumâ€“Selenium Secondary Battery Applications. Scientific Reports, 2016, 6, 30865.	3.3	30

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73	High-rate Li4Ti5O12/N-doped reduced graphene oxide composite using cyanamide both as nanospacer and a nitrogen doping source. Journal of Power Sources, 2016, 336, 376-384.	7.8	48
74	Hierarchically structured activated carbon for ultracapacitors. Scientific Reports, 2016, 6, 21182.	3.3	70
75	Synthesis of Reduced Graphene Oxide-Modified LiMn0.75Fe0.25PO4 Microspheres by Salt-Assisted Spray Drying for High-Performance Lithium-Ion Batteries. Scientific Reports, 2016, 6, 26686.	3.3	15
76	Scalable fabrication of micron-scale graphene nanomeshes for high-performance supercapacitor applications. Energy and Environmental Science, 2016, 9, 1270-1281.	30.8	122
77	Improved electrochemical performance of LiNi0.6Co0.2Mn0.2O2 cathode material synthesized by citric acid assisted sol-gel method for lithium ion batteries. Journal of Power Sources, 2016, 315, 261-268.	7.8	135
78	Superior electrochemical properties of manganese dioxide/reduced graphene oxide nanocomposites as anode materials for high-performance lithium ion batteries. Journal of Power Sources, 2016, 312, 207-215.	7.8	57
79	Silica-assisted bottom-up synthesis of graphene-like high surface area carbon for highly efficient ultracapacitor and Li-ion hybrid capacitor applications. Journal of Materials Chemistry A, 2016, 4, 5578-5591.	10.3	60
80	Rusted iron wire waste into high performance anode (Î±-Fe₂O₃) for Li-ion batteries: an efficient waste management approach. Green Chemistry, 2016, 18, 1395-1404.	9.0	39
81	Decoration of Hydrophobic Graphene Nanosheets with Iron Phosphate Based Materials in an Aqueous Solution. ChemElectroChem, 2015, 2, 2048-2054.	3.4	0
82	Highâ€Surfaceâ€Area Nitrogenâ€Doped Reduced Graphene Oxide for Electric Doubleâ€Layer Capacitors. ChemSusChem, 2015, 8, 1875-1884.	6.8	83
83	Effect of electrode balance on performance degradation and gas emission in stacked-type electrochemical capacitors. Metals and Materials International, 2015, 21, 1123-1132.	3.4	1
84	Microwave solvothermal synthesis of mixed pine tree seed-like/disc-shaped microstructures of MnOx (xÂ=Â4/3 and 1) with high specific capacitance for electrochemical capacitors. Journal of Electroceramics, 2015, 35, 111-119.	2.0	3
85	Three-Dimensional Layer-by-Layer Anode Structure Based on Co₃O₄ Nanoplates Strongly Tied by Capillary-like Multiwall Carbon Nanotubes for Use in High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2015, 7, 3861-3865.	8.0	31
86	Retransformed graphitic activated carbon from ionic liquid-derived carbon containing nitrogen. Journal of Materials Chemistry A, 2015, 3, 2564-2567.	10.3	14
87	Electrochemical Kinetics Investigation of Li₄Ti₅O₁₂/Reduced Graphene Oxide Nanocomposite Using Voltammetric Charge Analysis. Journal of the Electrochemical Society, 2015, 162, A667-A673.	2.9	19
88	Highly dispersible surface-unzipped multi-walled carbon nanotubes as binder-free electrodes for supercapacitor applications. Current Applied Physics, 2015, 15, S21-S26.	2.4	15
89	Interaction mechanism between a functionalized protective layer and dissolved polysulfide for extended cycle life of lithium sulfur batteries. Journal of Materials Chemistry A, 2015, 3, 9461-9467.	10.3	78
90	High-coulombic-efficiency Si-based hybrid microspheres synthesized by the combination of graphene and IL-derived carbon. Journal of Materials Chemistry A, 2015, 3, 20935-20943.	10.3	26

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91	Size-tunable tavorite LiFe(PO4)(OH) microspheres with a coreâ€“shell structure. CrystEngComm, 2015, 17, 6149-6154.	2.6	7
92	Reversible Capacity Enhancement of Zinc-Manganese Mixed Oxide through Nanoscale Electrochemical Wiring with Carbon Nanotubes. Journal of the Electrochemical Society, 2015, 162, A1990-A1996.	2.9	3
93	Template-Free Synthesis of Ruthenium Oxide Nanotubes for High-Performance Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2015, 7, 16686-16693.	8.0	22
94	Co3O4-reduced graphene oxide nanocomposite synthesized by microwave-assisted hydrothermal process for Li-ion batteries. Electronic Materials Letters, 2015, 11, 282-287.	2.2	20
95	Elevated rate capability of sulfur wrapped with thin rGO layers for lithiumâ€“sulfur batteries. RSC Advances, 2015, 5, 29370-29374.	3.6	12
96	In Situ Electrochemical Dilatometric Study of Fe₃O₄/Reduced Graphene Oxide Nanocomposites as Anode Material for Lithium Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A2308-A2312.	2.9	14
97	Optical Properties and Electrochemical Performance of LiFePO₄ Thin Films Deposited on Transparent Current Collectors. Journal of Nanoscience and Nanotechnology, 2015, 15, 8627-8631.	0.9	7
98	Simulation study on the lifetime of electrochemical capacitors using the accelerated degradation test under temperature and voltage stresses. Microelectronics Reliability, 2015, 55, 2712-2720.	1.7	13
99	Spray-Assisted Deep-Frying Process for the In Situ Spherical Assembly of Graphene for Energy-Storage Devices. Chemistry of Materials, 2015, 27, 457-465.	6.7	92
100	A two-dimensional highly ordered mesoporous carbon/graphene nanocomposite for electrochemical double layer capacitors: effects of electrical and ionic conduction pathways. Journal of Materials Chemistry A, 2015, 3, 2314-2322.	10.3	49
101	One-step preparation of reduced graphene oxide/carbon nanotube hybrid thin film by electrostatic spray deposition for supercapacitor applications. Metals and Materials International, 2014, 20, 975-981.	3.4	16
102	Structural Changes and Thermal Stability of Charged LiNi_xMn_yCo_zO₂ Cathode Materials Studied by Combined In Situ Time-Resolved XRD and Mass Spectroscopy. ACS Applied Materials & Interfaces, 2014, 6, 22594-22601.	8.0	731
103	Effect of Electronic Wiring on the Electrochemical Reaction Sites in Manganese Oxide with Pseudocapacitive Behavior. Journal of the Electrochemical Society, 2014, 161, H365-H369.	2.9	2
104	Electrochemical Impedance Spectroscopic Investigation of Sodium Ion Diffusion in MnO₂Using a Constant Phase Element Active in Desired Frequency Ranges. Journal of the Electrochemical Society, 2014, 161, H207-H213.	2.9	58
105	Combustion-synthesized LiNi0.6Mn0.2Co0.2O2 as cathode material for lithium ion batteries. Journal of Alloys and Compounds, 2014, 609, 143-149.	5.5	73
106	Structural Changes in Reduced Graphene Oxide upon MnO₂ Deposition by the Redox Reaction between Carbon and Permanganate Ions. Journal of Physical Chemistry C, 2014, 118, 2834-2843.	3.1	57
107	Improved high-voltage performance of FePO4-coated LiCoO2 by microwave-assisted hydrothermal method. Electrochemistry Communications, 2014, 43, 113-116.	4.7	34
108	Fluorinated activated carbon with superb kinetics for the supercapacitor application in nonaqueous electrolyte. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 535-539.	4.7	48

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109	LiTi₂(PO₄)₃/reduced graphene oxide nanocomposite with enhanced electrochemical performance for lithium-ion batteries. RSC Advances, 2014, 4, 31672-31677.	3.6	26
110	Nanosheet-assembled 3D nanoflowers of ruthenium oxide with superior rate performance for supercapacitor applications. RSC Advances, 2014, 4, 16115-16120.	3.6	23
111	A lithium iron phosphate/nitrogen-doped reduced graphene oxide nanocomposite as a cathode material for high-power lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 9594-9599.	10.3	40
112	Synthesis of LiMn_{0.75}Fe_{0.25}PO₄/C microspheres using a microwave-assisted process with a complexing agent for high-rate lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 10607-10613.	10.3	38
113	Controlling the Intercalation Chemistry to Design High-Performance Dual-Salt Hybrid Rechargeable Batteries. Journal of the American Chemical Society, 2014, 136, 16116-16119.	13.7	120
114	Size-selective synthesis of mesoporous LiFePO₄/C microspheres based on nucleation and growth rate control of primary particles. Journal of Materials Chemistry A, 2014, 2, 5922-5927.	10.3	35
115	Study on the Electrochemical Kinetics of Manganese Dioxide/Multiwall Carbon Nanotube Composite by Voltammetric Charge Analysis. Journal of the Electrochemical Society, 2014, 161, A137-A141.	2.9	16
116	Phase Transition Method To Form Group 6A Nanoparticles on Carbonaceous Templates. ACS Nano, 2014, 8, 2279-2289.	14.6	12
117	Electrochemical performance of hybrid supercapacitor fabricated using multi-structured activated carbon. Electrochemistry Communications, 2014, 47, 5-8.	4.7	36
118	In Situ Synthesis of Three-Dimensional Self-Assembled Metal Oxideâ€“Reduced Graphene Oxide Architecture. Chemistry of Materials, 2014, 26, 4838-4843.	6.7	47
119	Unique cyclic performance of post-treated carbide-derived carbon as an anode electrode. Carbon, 2014, 78, 91-101.	10.3	15
120	Soft templated mesoporous manganese oxide/carbon nanotube composites via interfacial surfactant assembly. Journal of Materials Chemistry A, 2014, 2, 3641-3647.	10.3	15
121	Morphology-controlled graphene nanosheets as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 132, 172-179.	5.2	55
122	Microwave-assisted hydrothermal synthesis of electrochemically active nano-sized Li2MnO3 dispersed on carbon nanotube network for lithium ion batteries. Journal of Alloys and Compounds, 2014, 591, 356-361.	5.5	20
123	Spine-like Nanostructured Carbon Interconnected by Graphene for High-performance Supercapacitors. Scientific Reports, 2014, 4, 6118.	3.3	28
124	Manganese Oxide/Carbon Nanotube Nanocomposites for Electrochemical Energy Storage Applications. , 2014, , 281-316.		0
125	Morphology control of three-dimensional carbon nanotube macrostructures fabricated using ice-templating method. Journal of Porous Materials, 2013, 20, 1289-1297.	2.6	16
126	Synthesis of nano-Li4Ti5O12 decorated on non-oxidized carbon nanotubes with enhanced rate capability for lithium-ion batteries. RSC Advances, 2013, 3, 14267.	3.6	25

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127	Nickel-based layered double hydroxide from guest vanadium oxide anions. Metals and Materials International, 2013, 19, 887-894.	3.4	28
128	Correlating Structural Changes and Gas Evolution during the Thermal Decomposition of Charged Li_xNi_{0.8}Co_{0.15}Al_{0.05}O₂ Cathode Materials. Chemistry of Materials, 2013, 25, 337-351.	6.7	317
129	Effect of poly(3,4-ethylenedioxythiophene) (PEDOT) on the pseudocapacitive properties of manganese oxide (MnO2) in the PEDOT/MnO2/multiwall carbon nanotube (MWNT) composite. Electrochimica Acta, 2013, 106, 135-142.	5.2	49
130	A highly ordered cubic mesoporous silica/graphene nanocomposite. Nanoscale, 2013, 5, 9604.	5.6	32
131	Electrochemical properties of graphene flakes as an air cathode material for Liâ€“O2 batteries in an ether-based electrolyte. Physical Chemistry Chemical Physics, 2013, 15, 20262.	2.8	44
132	Carbon nanotube-embedding LiFePO 4 as a cathode material for high rate lithium ion batteries. Journal of Power Sources, 2013, 243, 859-864.	7.8	41
133	Self-assembly of Si entrapped graphene architecture for high-performance Li-ion batteries. Electrochemistry Communications, 2013, 34, 117-120.	4.7	48
134	In situ fabrication of lithium titanium oxide by microwave-assisted alkalization for high-rate lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 14849.	10.3	25
135	One-pot synthesis of FePO4Â·H2O/carbon nanotube coaxial nanocomposite for high rate lithium ion batteries. Electrochemistry Communications, 2013, 30, 87-90.	4.7	14
136	Defect-free solvothermally assisted synthesis of microspherical mesoporous LiFePO4/C. RSC Advances, 2013, 3, 3421.	3.6	40
137	In situ chemical synthesis of ruthenium oxide/reduced graphene oxide nanocomposites for electrochemical capacitor applications. Nanoscale, 2013, 5, 6804.	5.6	69
138	One-pot synthesis of mixed-valence MoO x on carbon nanotube as an anode material for lithium ion batteries. Journal of Electroceramics, 2013, 31, 218-223.	2.0	31
139	Synthesis of mesoporous spherical TiO2 and its application in negative electrode of hybrid supercapacitor. Electronic Materials Letters, 2013, 9, 809-812.	2.2	8
140	Ribbon-like activated carbon with a multi-structure for supercapacitors. Journal of Materials Chemistry A, 2013, 1, 14008.	10.3	12
141	Synthesis and Electrochemical Properties of Li_{0.33}MnO₂ Nanorods as Positive Electrode Material for 3 V Lithium Batteries. Journal of Nanoscience and Nanotechnology, 2013, 13, 6199-6202.	0.9	1
142	Effect of Oleic Acid Coating on Electrochemical Properties of Li4Ti5O12 Nanofiber for Anode Materials. Journal of Korean Institute of Metals and Materials, 2013, 51, 227-232.	1.0	2
143	Synthesis of manganese dioxide/poly(3,4-ethylenedioxythiophene) core/sheath nanowires by galvanic displacement reaction. Journal of Electroceramics, 2012, 29, 149-154.	2.0	5
144	Synthesis and electrochemical properties of a sulfur-multi walled carbon nanotubes composite as a cathode material for lithium sulfur batteries. Journal of Power Sources, 2012, 202, 394-399.	7.8	207

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145	Facile Coating of Poly(3,4-ethylenedioxythiophene) on Manganese Dioxide by Galvanic Displacement Reaction and Its Electrochemical Properties for Electrochemical Capacitors. Bulletin of the Korean Chemical Society, 2012, 33, 2529-2534.	1.9	2
146	Mesoporous nickel/carbon nanotube hybrid material prepared by electroless deposition. Journal of Materials Chemistry, 2011, 21, 1984-1990.	6.7	61
147	Spinel LiMn2O4/reduced graphene oxide hybrid for high rate lithium ion batteries. Journal of Materials Chemistry, 2011, 21, 17309.	6.7	138
148	Electrochemical properties of leucoemeraldine, emeraldine, and pernigraniline forms of polyaniline/multi-wall carbon nanotube nanocomposites for supercapacitor applications. Journal of Power Sources, 2011, 196, 10791-10797.	7.8	158
149	Performance and durability of sulfonated poly(arylene ether sulfone) membrane-based membrane electrode assemblies fabricated by decal method for polymer electrolyte fuel cells. Electrochimica Acta, 2011, 56, 7732-7739.	5.2	11
150	Solid-state microwave irradiation synthesis of high quality graphenenanosheets under hydrogen containing atmosphere. Journal of Materials Chemistry, 2011, 21, 680-686.	6.7	138
151	Formation of an SEI on a LiMn2O4 cathode during room temperature chargeâ€“discharge cycling studied by soft X-ray absorption spectroscopy at the Fluorine K-edge. Journal of Applied Electrochemistry, 2011, 41, 1295-1299.	2.9	19
152	Binderâ€Free and Full Electricalâ€Addressing Freeâ€Standing Nanosheets with Carbon Nanotube Fabrics for Electrochemical Applications. Advanced Materials, 2011, 23, 4711-4715.	21.0	23
153	Electrochemical synthesis of meso-structured lamellar manganese oxide thin film. Microporous and Mesoporous Materials, 2010, 130, 208-214.	4.4	14
154	Microwave-polyol synthesis of nanocrystalline ruthenium oxide nanoparticles on carbon nanotubes for electrochemical capacitors. Electrochimica Acta, 2010, 55, 8056-8061.	5.2	45
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