

Kwang-Bum Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Structural Changes and Thermal Stability of Charged $\text{LiNi}_{1-x}\text{Mn}_y\text{Co}_z\text{O}_2$ Cathode Materials Studied by Combined <i>In Situ</i> Time-Resolved XRD and Mass Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22594-22601.	8.0	731
2	Synthesis and characterization of manganese dioxide spontaneously coated on carbon nanotubes. <i>Carbon</i> , 2007, 45, 375-382.	10.3	350
3	A Study of the Preparation of NiO_x Electrode via Electrochemical Route for Supercapacitor Applications and Their Charge Storage Mechanism. <i>Journal of the Electrochemical Society</i> , 2002, 149, A346.	2.9	338
4	Correlating Structural Changes and Gas Evolution during the Thermal Decomposition of Charged $\text{Li}_{1-x}\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Materials. <i>Chemistry of Materials</i> , 2013, 25, 337-351.	6.7	317
5	Oxygen Contribution on Li-Ion Intercalation/Deintercalation in LiCoO_2 Investigated by O K-Edge and Co L-Edge X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002, 106, 2526-2532.	2.6	293
6	Electrochemical properties of manganese oxide coated onto carbon nanotubes for energy-storage applications. <i>Journal of Power Sources</i> , 2008, 178, 483-489.	7.8	281
7	Li_3PO_4 surface coating on Ni-rich $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ by a citric acid assisted sol-gel method: Improved thermal stability and high-voltage performance. <i>Journal of Power Sources</i> , 2017, 360, 206-214.	7.8	210
8	Synthesis and electrochemical properties of a sulfur-multi walled carbon nanotubes composite as a cathode material for lithium sulfur batteries. <i>Journal of Power Sources</i> , 2012, 202, 394-399.	7.8	207
9	<i>In Situ</i> Mn K-edge X-ray Absorption Spectroscopy Studies of Electrodeposited Manganese Oxide Films for Electrochemical Capacitors. <i>Journal of Physical Chemistry C</i> , 2007, 111, 749-758.	3.1	192
10	X-ray absorption spectroscopy studies of nickel oxide thin film electrodes for supercapacitors. <i>Electrochimica Acta</i> , 2002, 47, 3201-3209.	5.2	186
11	Electrodeposited manganese oxides on three-dimensional carbon nanotube substrate: Supercapacitive behaviour in aqueous and organic electrolytes. <i>Journal of Power Sources</i> , 2009, 188, 323-331.	7.8	173
12	Pseudocapacitive properties of electrochemically prepared nickel oxides on 3-dimensional carbon nanotube film substrates. <i>Journal of Power Sources</i> , 2008, 182, 642-652.	7.8	166
13	Electrochemical properties of leucoemeraldine, emeraldine, and pernigraniline forms of polyaniline/multi-wall carbon nanotube nanocomposites for supercapacitor applications. <i>Journal of Power Sources</i> , 2011, 196, 10791-10797.	7.8	158
14	Fabrication and electrochemical properties of carbon nanotube film electrodes. <i>Carbon</i> , 2006, 44, 1963-1968.	10.3	144
15	Electrochemical Characterization of Hydrous Ruthenium Oxide Thin-Film Electrodes for Electrochemical Capacitor Applications. <i>Journal of the Electrochemical Society</i> , 2006, 153, A383.	2.9	142
16	Spinel LiMn_2O_4 /reduced graphene oxide hybrid for high rate lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 17309.	6.7	138
17	Solid-state microwave irradiation synthesis of high quality graphene nanosheets under hydrogen containing atmosphere. <i>Journal of Materials Chemistry</i> , 2011, 21, 680-686.	6.7	138
18	Improved electrochemical performance of $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ cathode material synthesized by citric acid assisted sol-gel method for lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 315, 261-268.	7.8	135

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19	Ruthenium Oxide Thin Film Electrodes for Supercapacitors. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A62.	2.2	132
20	Manganese Oxide Film Electrodes Prepared by Electrostatic Spray Deposition for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2006, 153, A81.	2.9	132
21	Scalable fabrication of micron-scale graphene nanomeshes for high-performance supercapacitor applications. <i>Energy and Environmental Science</i> , 2016, 9, 1270-1281.	30.8	122
22	Controlling the Intercalation Chemistry to Design High-Performance Dual-Salt Hybrid Rechargeable Batteries. <i>Journal of the American Chemical Society</i> , 2014, 136, 16116-16119.	13.7	120
23	Li ₄ Ti ₅ O ₁₂ /reduced graphite oxide nano-hybrid material for high rate lithium-ion batteries. <i>Electrochemistry Communications</i> , 2010, 12, 1768-1771.	4.7	114
24	Investigations into capacity fading as a result of a Jahn-Teller distortion in 4V LiMn ₂ O ₄ thin film electrodes. <i>Electrochimica Acta</i> , 2004, 49, 3327-3337.	5.2	112
25	Synthesis and Characterization of Electrochemically Prepared Ruthenium Oxide on Carbon Nanotube Film Substrate for Supercapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2170.	2.9	111
26	Hydrothermal synthesis of SnO ₂ -V ₂ O ₅ mixed oxide and electrochemical screening of carbon nano-tubes (CNT), V ₂ O ₅ , V ₂ O ₅ -CNT, and SnO ₂ -V ₂ O ₅ -CNT electrodes for supercapacitor applications. <i>Journal of Power Sources</i> , 2007, 166, 578-583.	7.8	111
27	Synthesis and Electrochemical Characterization of Vanadium Oxide on Carbon Nanotube Film Substrate for Pseudocapacitor Applications. <i>Journal of the Electrochemical Society</i> , 2006, 153, A989.	2.9	106
28	Improvement in electrochemical performance of V ₂ O ₅ by Cu doping. <i>Journal of Power Sources</i> , 2007, 165, 386-392.	7.8	106
29	Novel synthesis of layered LiNi _{1/2} Mn _{1/2} O ₂ as cathode material for lithium rechargeable cells. <i>Electrochimica Acta</i> , 2004, 49, 803-810.	5.2	102
30	Electrochemical Characterization of Electrochemically Prepared Ruthenium Oxide/Carbon Nanotube Electrode for Supercapacitor Application. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A369.	2.2	97
31	Fabrication and electrochemical properties of carbon nanotube/polypyrrole composite film electrodes with controlled pore size. <i>Journal of Power Sources</i> , 2008, 176, 396-402.	7.8	97
32	Synthesis and electrochemical performance of tetravalent doped LiCoO ₂ in lithium rechargeable cells. <i>Solid State Ionics</i> , 2003, 159, 223-232.	2.7	95
33	Synthesis and Electrochemical Investigations of Ni _{1-x} O Thin Films and Ni _{1-x} O on Three-Dimensional Carbon Substrates for Electrochemical Capacitors. <i>Journal of the Electrochemical Society</i> , 2005, 152, A2123.	2.9	95
34	TiO ₂ -reduced graphene oxide nanocomposites by microwave-assisted forced hydrolysis as excellent insertion anode for Li-ion battery and capacitor. <i>Journal of Power Sources</i> , 2016, 327, 171-177.	7.8	93
35	Spray-Assisted Deep-Frying Process for the In Situ Spherical Assembly of Graphene for Energy-Storage Devices. <i>Chemistry of Materials</i> , 2015, 27, 457-465.	6.7	92
36	Dual coexisting interconnected graphene nanostructures for high performance supercapacitor applications. <i>Energy and Environmental Science</i> , 2016, 9, 2249-2256.	30.8	87

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37	Structural and Electrochemical Properties of $\text{LiAl}_{1-y}\text{Co}_y\text{O}_2$ Cathode for Li Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2023.	2.9	86
38	Electrochemical and Structural Characterization of $\text{LiNi}_{1-y}\text{Co}_y\text{O}_2$ (0 ≤ y ≤ 0.2) Positive Electrodes during Initial Cycling. <i>Journal of the Electrochemical Society</i> , 2000, 147, 1709.	2.9	85
39	High-Surface-Area Nitrogen-Doped Reduced Graphene Oxide for Electric Double-Layer Capacitors. <i>ChemSusChem</i> , 2015, 8, 1875-1884.	6.8	83
40	Spontaneously Deposited Manganese Oxide on Acetylene Black in an Aqueous Potassium Permanganate Solution. <i>Journal of the Electrochemical Society</i> , 2006, 153, C27.	2.9	80
41	A chemically bonded $\text{NaTi}_2(\text{PO}_4)_3/\text{rGO}$ microsphere composite as a high-rate insertion anode for sodium-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17506-17516.	10.3	80
42	Investigation of Structural Fatigue in Spinel Electrodes Using In Situ Laser Probe Beam Deflection Technique. <i>Journal of the Electrochemical Society</i> , 2002, 149, A79.	2.9	79
43	A holey graphene-based hybrid supercapacitor. <i>Chemical Engineering Journal</i> , 2019, 378, 122126.	12.7	79
44	Interaction mechanism between a functionalized protective layer and dissolved polysulfide for extended cycle life of lithium sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9461-9467.	10.3	78
45	Combustion-synthesized $\text{LiNi}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ as cathode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 609, 143-149.	5.5	73
46	Synthesis of LiCoO_2 using acrylic acid and its electrochemical properties for Li secondary batteries. <i>Journal of Power Sources</i> , 1999, 81-82, 517-523.	7.8	72
47	Strong, persistent superficial oxidation-assisted chemical bonding of black phosphorus with multiwall carbon nanotubes for high-capacity ultradurable storage of lithium and sodium. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10121-10134.	10.3	71
48	Hierarchically structured activated carbon for ultracapacitors. <i>Scientific Reports</i> , 2016, 6, 21182.	3.3	70
49	In situ chemical synthesis of ruthenium oxide/reduced graphene oxide nanocomposites for electrochemical capacitor applications. <i>Nanoscale</i> , 2013, 5, 6804.	5.6	69
50	In situ synthesis of chemically bonded $\text{NaTi}_2(\text{PO}_4)_3/\text{rGO}$ 2D nanocomposite for high-rate sodium-ion batteries. <i>Nano Research</i> , 2016, 9, 1844-1855.	10.4	69
51	Ultrasound assisted synthesis of nano-sized lithium cobalt oxide. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 1019-1025.	8.2	68
52	Pseudocapacitive Properties of Electrochemically Prepared Vanadium Oxide on Carbon Nanotube Film Substrate. <i>Journal of the Electrochemical Society</i> , 2006, 153, A1451.	2.9	61
53	Mesoporous nickel/carbon nanotube hybrid material prepared by electroless deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 1984-1990.	6.7	61
54	Spectroscopic studies of the structural properties of Ni substituted spinel LiMn_2O_4 . <i>Solid State Ionics</i> , 2006, 177, 29-35.	2.7	60

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55	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
56	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
57	Highly conductive carbon nanotube micro-spherical network for high-rate silicon anode. Journal of Power Sources, 2018, 394, 94-101.	7.8	60
58	Ruthenium Oxide Thin Film Electrodes Prepared by Electrostatic Spray Deposition and Their Charge Storage Mechanism. Journal of the Electrochemical Society, 2004, 151, E7.	2.9	58
59	Electrochemical Impedance Spectroscopic Investigation of Sodium Ion Diffusion in MnO ₂ Using a Constant Phase Element Active in Desired Frequency Ranges. Journal of the Electrochemical Society, 2014, 161, H207-H213.	2.9	58
60	Nano-sized lithium manganese oxide dispersed on carbon nanotubes for energy storage applications. Electrochemistry Communications, 2009, 11, 1575-1578.	4.7	57
61	Structural Changes in Reduced Graphene Oxide upon MnO ₂ Deposition by the Redox Reaction between Carbon and Permanganate Ions. Journal of Physical Chemistry C, 2014, 118, 2834-2843.	3.1	57
62	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
63	Morphology-controlled graphene nanosheets as anode material for lithium-ion batteries. Electrochimica Acta, 2014, 132, 172-179.	5.2	55
64	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li ⁺ /O ₂ batteries. Journal of Materials Chemistry A, 2017, 5, 619-631.	10.3	55
65	Electrochemical impedance characteristics of pure Al and Al ⁺ Sn alloys in NaOH solution. Corrosion Science, 2001, 43, 561-575.	6.6	54
66	Scalable fabrication of flexible thin-film batteries for smart lens applications. Nano Energy, 2018, 53, 225-231.	16.0	53
67	Oxygen Contribution on Li-Ion Intercalation-Deintercalation in LiAl _y Co _{1-y} O ₂ Investigated by O K-Edge and Co L-Edge X-Ray Absorption Spectroscopy. Journal of the Electrochemical Society, 2002, 149, A1305.	2.9	52
68	Electrodeposition of monodisperse copper nanoparticles on highly oriented pyrolytic graphite electrode with modulation potential method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 262, 125-131.	4.7	52
69	Organized and highly dispersed growth of MnO ₂ nano-rods by sonochemical hydrolysis of Mn(3)acetate. Ultrasonics Sonochemistry, 2006, 13, 549-556.	8.2	51
70	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
71	Electrochemical characterization of layered LiCoO ₂ films prepared by electrostatic spray deposition. Journal of Power Sources, 2001, 97-98, 282-286.	7.8	49
72	Onset Mechanism of Jahn-Teller Distortion in 4 V LiMn ₂ O ₄ and Its Suppression by LiM[_{0.05}]Mn[_{1.95}]O ₄ (M = Fe, Co, Ni) Coating. Journal of the Electrochemical Society, 2005, 152, A791.	2.9	49

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73	Effect of poly(3,4-ethylenedioxythiophene) (PEDOT) on the pseudocapacitive properties of manganese oxide (MnO ₂) in the PEDOT/MnO ₂ /multiwall carbon nanotube (MWNT) composite. <i>Electrochimica Acta</i> , 2013, 106, 135-142.	5.2	49
74	A two-dimensional highly ordered mesoporous carbon/graphene nanocomposite for electrochemical double layer capacitors: effects of electrical and ionic conduction pathways. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2314-2322.	10.3	49
75	Preparation and characterization of gold-codeposited LiMn ₂ O ₄ electrodes. <i>Journal of Power Sources</i> , 2001, 92, 168-176.	7.8	48
76	Electrochemical investigations on electrostatic spray deposited LiMn ₂ O ₄ films. <i>Journal of Power Sources</i> , 2003, 114, 253-263.	7.8	48
77	Self-assembly of Si entrapped graphene architecture for high-performance Li-ion batteries. <i>Electrochemistry Communications</i> , 2013, 34, 117-120.	4.7	48
78	Fluorinated activated carbon with superb kinetics for the supercapacitor application in nonaqueous electrolyte. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 535-539.	4.7	48
79	High-rate Li ₄ Ti ₅ O ₁₂ /N-doped reduced graphene oxide composite using cyanamide both as nanospacer and a nitrogen doping source. <i>Journal of Power Sources</i> , 2016, 336, 376-384.	7.8	48
80	In Situ Synthesis of Three-Dimensional Self-Assembled Metal Oxide-Reduced Graphene Oxide Architecture. <i>Chemistry of Materials</i> , 2014, 26, 4838-4843.	6.7	47
81	Microwave-polyol synthesis of nanocrystalline ruthenium oxide nanoparticles on carbon nanotubes for electrochemical capacitors. <i>Electrochimica Acta</i> , 2010, 55, 8056-8061.	5.2	45
82	Thermal behavior and the decomposition mechanism of electrochemically delithiated Li _{1-x} NiO ₂ . <i>Journal of Power Sources</i> , 2001, 97-98, 321-325.	7.8	44
83	Electrochemical properties of graphene flakes as an air cathode material for Li-O ₂ batteries in an ether-based electrolyte. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 20262.	2.8	44
84	Carbon nanotube-embedding LiFePO ₄ as a cathode material for high rate lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 859-864.	7.8	41
85	Defect-free solvothermally assisted synthesis of microspherical mesoporous LiFePO ₄ /C. <i>RSC Advances</i> , 2013, 3, 3421.	3.6	40
86	A lithium iron phosphate/nitrogen-doped reduced graphene oxide nanocomposite as a cathode material for high-power lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9594-9599.	10.3	40
87	Rusted iron wire waste into high performance anode (Li-Fe ₂ O ₃) for Li-ion batteries: an efficient waste management approach. <i>Green Chemistry</i> , 2016, 18, 1395-1404.	9.0	39
88	Thermo-Adaptive Block Copolymer Structural Color Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2008548.	14.9	39
89	Synthesis of LiMn _{0.75} Fe _{0.25} PO ₄ /C microspheres using a microwave-assisted process with a complexing agent for high-rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10607-10613.	10.3	38
90	Compact graphene powders with high volumetric capacitance: Microspherical assembly of graphene via surface modification using cyanamide. <i>Energy Storage Materials</i> , 2020, 24, 351-361.	18.0	38

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91	A study on effect of hydrogen reduction reaction on the initial stage of Ni electrodeposition using EQCM. <i>Electrochemistry Communications</i> , 2003, 5, 460-466.	4.7	36
92	Electrochemical performance of hybrid supercapacitor fabricated using multi-structured activated carbon. <i>Electrochemistry Communications</i> , 2014, 47, 5-8.	4.7	36
93	Surface modification of LiMn ₂ O ₄ thin films at elevated temperature. <i>Solid State Ionics</i> , 2003, 160, 227-233.	2.7	35
94	Size-selective synthesis of mesoporous LiFePO ₄ /C microspheres based on nucleation and growth rate control of primary particles. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5922-5927.	10.3	35
95	Magn ⁺ Phase Titanium Oxide as a Novel Anode Material for Potassium-Ion Batteries. <i>ACS Omega</i> , 2019, 4, 5304-5309.	3.5	35
96	A study of the effect of concentration build-up of electrolyte on the atmospheric corrosion of carbon steel during drying. <i>Corrosion Science</i> , 2000, 42, 517-531.	6.6	34
97	Improved high-voltage performance of FePO ₄ -coated LiCoO ₂ by microwave-assisted hydrothermal method. <i>Electrochemistry Communications</i> , 2014, 43, 113-116.	4.7	34
98	Electrical Conductivity Measurements of Molten Alkaline Earth Fluorides. <i>Journal of the Electrochemical Society</i> , 1992, 139, 1027-1033.	2.9	33
99	Changes in electronic structure of the electrochemically Li-ion deintercalated LiMn ₂ O ₄ system investigated by soft X-ray absorption spectroscopy. <i>Journal of Power Sources</i> , 2003, 119-121, 706-709.	7.8	33
100	Cu-doped V ₂ O ₅ as a high-energy density cathode material for rechargeable lithium batteries. <i>Journal of Alloys and Compounds</i> , 2008, 459, L13-L17.	5.5	33
101	Three-dimensional graphene-based spheres and crumpled balls: micro- and nano-structures, synthesis strategies, properties and applications. <i>RSC Advances</i> , 2016, 6, 50941-50967.	3.6	33
102	A highly ordered cubic mesoporous silica/graphene nanocomposite. <i>Nanoscale</i> , 2013, 5, 9604.	5.6	32
103	Studying the reduction of graphene oxide with magnetic measurements. <i>Carbon</i> , 2019, 142, 373-378.	10.3	32
104	Polyol-mediated carbon-coated Li ₄ Ti ₅ O ₁₂ nanoparticle/graphene composites with long-term cycling stability for lithium and sodium ion storages. <i>Chemical Engineering Journal</i> , 2020, 385, 123984.	12.7	32
105	One-pot synthesis of mixed-valence MoO _x on carbon nanotube as an anode material for lithium ion batteries. <i>Journal of Electroceramics</i> , 2013, 31, 218-223.	2.0	31
106	Three-Dimensional Layer-by-Layer Anode Structure Based on Co ₃ O ₄ Nanoplates Strongly Tied by Capillary-like Multiwall Carbon Nanotubes for Use in High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 3861-3865.	8.0	31
107	Graphene-Selenium Hybrid Microballs as Cathode Materials for High-performance Lithium-Selenium Secondary Battery Applications. <i>Scientific Reports</i> , 2016, 6, 30865.	3.3	30
108	Multimodal porous carbon derived from ionic liquids: correlation between pore sizes and ionic clusters. <i>Nanoscale</i> , 2017, 9, 14672-14681.	5.6	30

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109	Perforated two-dimensional nanoarchitectures for next-generation batteries: Recent advances and extensible perspectives. <i>Progress in Materials Science</i> , 2021, 116, 100716.	32.8	30
110	Carbon-free Mn-doped LiFePO ₄ cathode for highly transparent thin-film batteries. <i>Journal of Power Sources</i> , 2019, 434, 226713.	7.8	29
111	Effect of Additives on Hydrogen Evolution and Absorption during Zn Electrodeposition Investigated by EQCM. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, C20.	2.2	28
112	Novel concept of pseudocapacitor using stabilized lithium metal powder and non-lithiated metal oxide electrodes in organic electrolyte. <i>Electrochemistry Communications</i> , 2009, 11, 1166-1169.	4.7	28
113	Nickel-based layered double hydroxide from guest vanadium oxide anions. <i>Metals and Materials International</i> , 2013, 19, 887-894.	3.4	28
114	Spine-like Nanostructured Carbon Interconnected by Graphene for High-performance Supercapacitors. <i>Scientific Reports</i> , 2014, 4, 6118.	3.3	28
115	Synthesis of LiFePO ₄ /graphene microspheres while avoiding restacking of graphene sheet TM s for high-rate lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 251-259.	5.8	28
116	Exceptionally Reversible Li-/Na-Ion Storage and Ultrastable Solid-Electrolyte Interphase in Layered GeP ₅ Anode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32815-32825.	8.0	28
117	Synthesis of Li _{1-y} Co _{1-x} O ₂ using acrylic acid and its electrochemical properties for Li rechargeable batteries. <i>Journal of Power Sources</i> , 2001, 97-98, 303-307.	7.8	27
118	A Mechanistic Study on the Improvement of the Thermal Stability of Delithiated Li _{1-x} NiO ₂ by Co Substitution for Ni. <i>Journal of the Electrochemical Society</i> , 2001, 148, A1164.	2.9	27
119	A Study on the Thermal Behavior of Electrochemically Delithiated Li _{1-x} NiO ₂ . <i>Journal of the Electrochemical Society</i> , 2001, 148, A716.	2.9	26
120	Characterization of LiMn ₂ O ₄ -coated LiCoO ₂ film electrode prepared by electrostatic spray deposition. <i>Journal of Power Sources</i> , 2006, 163, 207-210.	7.8	26
121	Li ₂ (PO ₄) ₃ /reduced graphene oxide nanocomposite with enhanced electrochemical performance for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 31672-31677.	3.6	26
122	High-coulombic-efficiency Si-based hybrid microspheres synthesized by the combination of graphene and IL-derived carbon. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20935-20943.	10.3	26
123	Synthesis of Li-doped Nickel Oxide Thin Film Electrodes for Electrochemical Capacitors Using Electrostatic Spray Deposition Technique. <i>Electrochemistry</i> , 2001, 69, 467-472.	1.4	26
124	Performance of electrostatic spray-deposited vanadium pentoxide in lithium secondary cells. <i>Journal of Power Sources</i> , 2003, 117, 110-117.	7.8	25
125	Synthesis of nano-Li ₄ Ti ₅ O ₁₂ decorated on non-oxidized carbon nanotubes with enhanced rate capability for lithium-ion batteries. <i>RSC Advances</i> , 2013, 3, 14267.	3.6	25
126	In situ fabrication of lithium titanium oxide by microwave-assisted alkalization for high-rate lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14849.	10.3	25

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127	X-Ray Absorption Spectroscopic Study of $\text{LiAl}_{1-y}\text{Co}_y\text{O}_2$ Cathode for Li Rechargeable Batteries. <i>Journal of the Electrochemical Society</i> , 2002, 149, A146.	2.9	24
128	700ÅF hybrid capacitors cells composed of activated carbon and $\text{Li}_4\text{Ti}_5\text{O}_{12}$ microspheres with ultra-long cycle life. <i>Journal of Power Sources</i> , 2017, 366, 200-206.	7.8	24
129	Binder-Free and Full Electrical-Addressing Free-Standing Nanosheets with Carbon Nanotube Fabrics for Electrochemical Applications. <i>Advanced Materials</i> , 2011, 23, 4711-4715.	21.0	23
130	Nanosheet-assembled 3D nanoflowers of ruthenium oxide with superior rate performance for supercapacitor applications. <i>RSC Advances</i> , 2014, 4, 16115-16120.	3.6	23
131	Template-Free Synthesis of Ruthenium Oxide Nanotubes for High-Performance Electrochemical Capacitors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16686-16693.	8.0	22
132	X-Ray Diffraction and Raman Scattering Studies of Electrochemically Cycled CuV_2O_6 . <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A487.	2.2	21
133	Novel Synthesis of Nanosized Cellular Iron Oxide/Oxyhydroxide Thin Films. <i>Journal of the Electrochemical Society</i> , 2005, 152, C560.	2.9	20
134	Microwave-assisted hydrothermal synthesis of electrochemically active nano-sized Li_2MnO_3 dispersed on carbon nanotube network for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2014, 591, 356-361.	5.5	20
135	Co_3O_4 -reduced graphene oxide nanocomposite synthesized by microwave-assisted hydrothermal process for Li-ion batteries. <i>Electronic Materials Letters</i> , 2015, 11, 282-287.	2.2	20
136	Ultra-fast shock-wave combustion synthesis of nanostructured silicon from sand with excellent Li storage performance. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1396-1405.	4.9	20
137	Improved Electrode Performance of $\text{LiAl}_{1-y}\text{Co}_y\text{O}_2$ Prepared via Sol-Gel Process. <i>Electrochemical and Solid-State Letters</i> , 2001, 4, A35.	2.2	19
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