Baohua Li

List of Publications by Year
in descending order

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Version: 2024-02-01

86	10,851	34105 52	51608 86
papers	citations	h-index	g-index

87	87	87	10452
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. Angewandte Chemie - International Edition, 2012, 51, 933-935.	13.8	1,437
2	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. Energy and Environmental Science, 2018, 11, 941-951.	30.8	731
3	Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. Energy Storage Materials, 2018, 13, 96-102.	18.0	568
4	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. ACS Nano, 2018, 12, 3140-3148.	14.6	439
5	Novel gel polymer electrolyte for high-performance lithiumâ€“sulfur batteries. Nano Energy, 2016, 22, 278-289.	16.0	382
6	A room-temperature sodiumâ€“sulfur battery with high capacity and stable cycling performance. Nature Communications, 2018, 9, 3870.	12.8	367
7	Deepâ€Eutectica€Solventâ€Based Selfâ€Healing Polymer Electrolyte for Safe and Longâ€Life Lithiumâ€Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 9134-9142.	13.8	292
8	Gassing in Li4Ti5O12-based batteries and its remedy. Scientific Reports, 2012, 2, 913.	3.3	284
9	Flexible and planar graphene conductive additives for lithium-ion batteries. Journal of Materials Chemistry, 2010, 20, 9644.	6.7	276
10	Preparation and Characterization of MnO2/acid-treated CNT Nanocomposites for Energy Storage with Zinc Ions. Electrochimica Acta, 2014, 133, 254-261.	5.2	246
11	Recent progress on manganese dioxide based supercapacitors. Journal of Materials Research, 2010, 25, 1421-1432.	2.6	236
12	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li4Ti5O12 anodes for Li ion batteries. Journal of Power Sources, 2013, 239, 269-276.	7.8	223
13	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. Nano Energy, 2016, 30, 900-908.	16.0	188
14	Could graphene construct an effective conducting network in a high-power lithium ion battery?. Nano Energy, 2012, 1, 429-439.	16.0	185
15	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. Journal of the Electrochemical Society, 2015, 162, A1439-A1444.	2.9	164
16	Co-electro-deposition of the MnO2â€“PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. Journal of Materials Chemistry A, 2013, 1, 12432.	10.3	163
17	A review of gassing behavior in Li₄Ti₅O₁₂-based lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 6368-6381.	10.3	157
18	Preparation and characterization of manganese dioxides with nano-sized tunnel structures for zinc ion storage. Journal of Physics and Chemistry of Solids, 2012, 73, 1487-1491.	4.0	153

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19	Carbon coating to suppress the reduction decomposition of electrolyte on the Li4Ti5O12 electrode. Journal of Power Sources, 2012, 202, 253-261.	7.8	142
20	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li₄Ti₅O₁₂ Spheres of Densely Packed Nanocrystallites. Chemistry of Materials, 2015, 27, 5647-5656.	6.7	142
21	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. CheM, 2020, 6, 902-918.	11.7	137
22	Porous graphitic carbons prepared by combining chemical activation with catalytic graphitization. Carbon, 2011, 49, 725-729.	10.3	131
23	Electrochemical properties of nanosized hydrous manganese dioxide synthesized by a self-reacting microemulsion method. Journal of Power Sources, 2008, 180, 664-670.	7.8	128
24	Nonâ€Flammable Liquid and Quasiâ€Solid Electrolytes toward Highlyâ€Safe Alkali Metalâ€Based Batteries. Advanced Functional Materials, 2021, 31, 2008644.	14.9	127
25	Selfâ€Healing Materials for Energyâ€Storage Devices. Advanced Functional Materials, 2020, 30, 1909912.	14.9	121
26	The effect of graphene wrapping on the performance of LiFePO4 for a lithium ion battery. Carbon, 2013, 57, 530-533.	10.3	115
27	Asymmetric Activated Carbon-Manganese Dioxide Capacitors in Mild Aqueous Electrolytes Containing Alkaline-Earth Cations. Journal of the Electrochemical Society, 2009, 156, A435.	2.9	109
28	Carbon aerogel supported Ptâ€“Ru catalysts for using as the anode of direct methanol fuel cells. Carbon, 2007, 45, 429-435.	10.3	99
29	Reversible Insertion Properties of Zinc Ion into Manganese Dioxide and Its Application for Energy Storage. Electrochemical and Solid-State Letters, 2009, 12, A61.	2.2	99
30	Flexible supercapacitors. Particuology, 2013, 11, 371-377.	3.6	92
31	Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrodeâ€“electrolyte interfacial fabrication in lithium-ion battery. Journal of Materials Chemistry A, 2014, 2, 20059-20066.	10.3	92
32	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. Nature Communications, 2021, 12, 5746.	12.8	89
33	Charge storage mechanism of manganese dioxide for capacitor application: Effect of the mild electrolytes containing alkaline and alkaline-earth metal cations. Journal of Power Sources, 2011, 196, 7854-7859.	7.8	88
34	How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO2-based lithium-ion batteries. Carbon, 2016, 103, 356-362.	10.3	87
35	Capacitive Behavior and Charge Storage Mechanism of Manganese Dioxide in Aqueous Solution Containing Bivalent Cations. Journal of the Electrochemical Society, 2009, 156, A73.	2.9	86
36	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. Journal of Materials Chemistry A, 2017, 5, 18888-18895.	10.3	85

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37	Supercapacitive studies on amorphous MnO2 in mild solutions. Journal of Power Sources, 2008, 184, 691-694.	7.8	81
38	Enhanced performance of interconnected LiFePO4/C microspheres with excellent multiple conductive network and subtle mesoporous structure. Electrochimica Acta, 2015, 152, 398-407.	5.2	75
39	Twin-functional graphene oxide: compacting with Fe 2 O 3 into a high volumetric capacity anode for lithium ion battery. Energy Storage Materials, 2017, 6, 98-103.	18.0	74
40	Hollow titanium dioxide spheres as anode material for lithium ion battery with largely improved rate stability and cycle performance by suppressing the formation of solid electrolyte interface layer. Journal of Materials Chemistry A, 2015, 3, 13340-13349.	10.3	71
41	A graphene-based nanostructure with expanded ion transport channels for high rate Li-ion batteries. Chemical Communications, 2012, 48, 5904.	4.1	68
42	Structure and Electrochemical Properties of Zn-Doped Li[sub 4]Ti[sub 5]O[sub 12] as Anode Materials in Li-Ion Battery. Electrochemical and Solid-State Letters, 2010, 13, A36.	2.2	67
43	Tailoring Microstructure of Grapheneâ€Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. Advanced Functional Materials, 2014, 24, 3456-3463.	14.9	67
44	Deterioration mechanism of LiNi_{0.8}Co_{0.15}Al_{0.05}O₂/graphiteâ€“SiO_x power batteries under high temperature and discharge cycling conditions. Journal of Materials Chemistry A, 2018, 6, 65-72.	10.3	66
45	Influences of Mesopore Size on Oxygen Reduction Reaction Catalysis of Pt/Carbon Aerogels. Journal of Physical Chemistry C, 2007, 111, 2040-2043.	3.1	65
46	Modeling the in-plane thermal conductivity of a graphite/polymer composite sheet with a very high content of natural flake graphite. Carbon, 2012, 50, 5052-5061.	10.3	65
47	Enabling flexible solid-state Zn batteries via tailoring sulfur deficiency in bimetallic sulfide nanotube arrays. Nano Energy, 2020, 77, 105165.	16.0	65
48	The Effect of Vanadium on Physicochemical and Electrochemical Performances of LiFePO[sub 4] Cathode for Lithium Battery. Journal of the Electrochemical Society, 2011, 158, A26.	2.9	64
49	Deterioration of lithium iron phosphate/graphite power batteries under high-rate discharge cycling. Electrochimica Acta, 2015, 176, 270-279.	5.2	59
50	Experiments and modeling of thermal conductivity of flake graphite/polymer composites affected by adding carbon-based nano-fillers. Carbon, 2013, 57, 452-459.	10.3	56
51	Highly Crystalline Lithium Titanium Oxide Sheets Coated with Nitrogenâ€Doped Carbon enable Highâ€Rate Lithiumâ€Ion Batteries. ChemSusChem, 2014, 7, 2567-2574.	6.8	55
52	A unique carbon with a high specific surface area produced by the carbonization of agar in the presence of graphene. Chemical Communications, 2013, 49, 10427-10429.	4.1	52
53	Suppression of interfacial reactions between Li4Ti5O12 electrode and electrolyte solution via zinc oxide coating. Electrochimica Acta, 2015, 157, 266-273.	5.2	51
54	Large Polarization of Li₄Ti₅O₁₂ Lithiated to 0 V at Large Charge/Discharge Rates. ACS Applied Materials & Interfaces, 2016, 8, 18788-18796.	8.0	51

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55	A study on charge storage mechanism of Î±-MnO2 by occupying tunnels with metal cations (Ba2+, K+). Journal of Power Sources, 2011, 196, 7860-7867.	7.8	49
56	The preparation of graphene decorated with manganese dioxide nanoparticles by electrostatic adsorption for use in supercapacitors. Carbon, 2012, 50, 5034-5043.	10.3	49
57	Effects of state of charge on the degradation of LiFePO4/graphite batteries during accelerated storage test. Journal of Alloys and Compounds, 2015, 639, 406-414.	5.5	49
58	LiFePO4/C composite with 3D carbon conductive network for rechargeable lithium ion batteries. Electrochimica Acta, 2013, 109, 512-518.	5.2	48
59	Conductive graphene-based macroscopic membrane self-assembled at a liquidâ€“air interface. Journal of Materials Chemistry, 2011, 21, 3359.	6.7	46
60	Nanospace-confined formation of flattened Sn sheets in pre-seeded graphenes for lithium ion batteries. Nanoscale, 2014, 6, 9554-9558.	5.6	46
61	Preparation of mesophase-pitch-based activated carbons for electric double layer capacitors with high energy density. Microporous and Mesoporous Materials, 2010, 130, 224-228.	4.4	44
62	Electrode thickness control: Precondition for quite different functions of graphene conductive additives in LiFePO4 electrode. Carbon, 2015, 92, 311-317.	10.3	42
63	Structural and thermal stabilities of layered Li(Ni1/3Co1/3Mn1/3)O2 materials in 18650 high power batteries. Journal of Power Sources, 2011, 196, 10322-10327.	7.8	40
64	Effects of tin doping on physicochemical and electrochemical performances of LiFe1â^'xSnxPO4/C (0â‰¤xâ‰¤0.07) composite cathode materials. Electrochimica Acta, 2011, 56, 7385-7391.	5.2	38
65	Anomalous effect of K ions on electrochemical capacitance of amorphous MnO2. Journal of Power Sources, 2013, 234, 1-7.	7.8	36
66	Quantification of the Li-ion diffusion over an interface coating in all-solid-state batteries via NMR measurements. Nature Communications, 2021, 12, 5943.	12.8	36
67	High loading of Ptâ€“Ru nanocatalysts by pentagon defects introduced in a bamboo-shaped carbon nanotube support for high performance anode of direct methanol fuel cells. Electrochemistry Communications, 2009, 11, 355-358.	4.7	35
68	Synthesis of Lithium Iron Phosphate/Carbon Microspheres by Using Polyacrylic Acid Coated Iron Phosphate Nanoparticles Derived from Iron(III) Acrylate. ChemSusChem, 2015, 8, 1009-1016.	6.8	31
69	Effects of current densities on the formation of LiCoO2/graphite lithium ion battery. Journal of Solid State Electrochemistry, 2011, 15, 1977-1985.	2.5	30
70	Liâ€ion Reaction to Improve the Rate Performance of Nanoporous Anatase TiO₂ Anodes. Energy Technology, 2013, 1, 668-674.	3.8	30
71	Inorganic-based solâ€“gel synthesis of nano-structured LiFePO4/C composite materials for lithium ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 1353-1362.	2.5	29
72	pH-Mediated fine-tuning of optical properties of graphene oxide membranes. Carbon, 2012, 50, 3233-3239.	10.3	29

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73	An interlaced silver vanadium oxideâ€“graphene hybrid with high structural stability for use in lithium ion batteries. Chemical Communications, 2014, 50, 13447-13450.	4.1	26
74	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. Journal of Power Sources, 2014, 268, 882-886.	7.8	25
75	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. Carbon, 2015, 81, 739-747.	10.3	25
76	The effect of pre-carbonization of mesophase pitch-based activated carbons on their electrochemical performance for electric double-layer capacitors. Journal of Solid State Electrochemistry, 2011, 15, 787-794.	2.5	22
77	Surface-reconstructed graphite nanofibers as a support for cathode catalysts of fuel cells. Chemical Communications, 2011, 47, 3900.	4.1	21
78	Impact of evolution of cathode electrolyte interface of Li(Ni0.8Co0.1Mn0.1)O2 on electrochemical performance during high voltage cycling process. Journal of Energy Chemistry, 2020, 47, 72-78.	12.9	20
79	The influences of multi-walled carbon nanotube addition to the anode on the performance of direct methanol fuel cells. Journal of Power Sources, 2008, 184, 381-384.	7.8	13
80	The Effect of Potassium Impurities Deliberately Introduced into Activated Carbon Cathodes on the Performance of Lithiumâ€“Oxygen Batteries. ChemSusChem, 2015, 8, 4235-4241.	6.8	13
81	Interconnected Ultrasmall V₂O₃ and Li₄Ti₅O₁₂ Particles Construct Robust Interfaces for Long-Cycling Anodes of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 29993-30000.	8.0	12
82	Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. Electrochimica Acta, 2014, 142, 247-253.	5.2	11
83	Enhanced oxygen reduction performance of Pt catalysts by nano-loops formed on the surface of carbon nanofiber support. Carbon, 2008, 46, 2140-2143.	10.3	10
84	Hierarchical Porous Graphene Bubbles as Host Materials for Advanced Lithium Sulfur Battery Cathode. Frontiers in Chemistry, 2021, 9, 653476.	3.6	8
85	3D Hollow Sn@Carbon-Graphene Hybrid Material as Promising Anode for Lithium-Ion Batteries. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	5
86	Graphene-Based Materials with Tailored Nanostructures for Lithium-Ion Batteries. , 2021, , 473-490.		0