

# Baohua Li

## List of Publications by Year in descending order

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86  
papers

10,851  
citations

34076

52  
h-index

51562

86  
g-index

87  
all docs

87  
docs citations

87  
times ranked

10452  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energetic Zinc Ion Chemistry: The Rechargeable Zinc Ion Battery. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 933-935.	7.2	1,437
2	An extremely safe and wearable solid-state zinc ion battery based on a hierarchical structured polymer electrolyte. <i>Energy and Environmental Science</i> , 2018, 11, 941-951.	15.6	731
3	Extremely safe, high-rate and ultralong-life zinc-ion hybrid supercapacitors. <i>Energy Storage Materials</i> , 2018, 13, 96-102.	9.5	568
4	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , 2018, 12, 3140-3148.	7.3	439
5	Novel gel polymer electrolyte for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2016, 22, 278-289.	8.2	382
6	A room-temperature sodium-sulfur battery with high capacity and stable cycling performance. <i>Nature Communications</i> , 2018, 9, 3870.	5.8	367
7	Deep-Eutectic-Solvent-Based Self-Healing Polymer Electrolyte for Safe and Long-Life Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9134-9142.	7.2	292
8	Gassing in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based batteries and its remedy. <i>Scientific Reports</i> , 2012, 2, 913.	1.6	284
9	Flexible and planar graphene conductive additives for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2010, 20, 9644.	6.7	276
10	Preparation and Characterization of MnO <sub>2</sub> /acid-treated CNT Nanocomposites for Energy Storage with Zinc Ions. <i>Electrochimica Acta</i> , 2014, 133, 254-261.	2.6	246
11	Recent progress on manganese dioxide based supercapacitors. <i>Journal of Materials Research</i> , 2010, 25, 1421-1432.	1.2	236
12	Effect of solid electrolyte interface (SEI) film on cyclic performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> anodes for Li ion batteries. <i>Journal of Power Sources</i> , 2013, 239, 269-276.	4.0	223
13	An ultrafast, high capacity and superior longevity Ni/Zn battery constructed on nickel nanowire array film. <i>Nano Energy</i> , 2016, 30, 900-908.	8.2	188
14	Could graphene construct an effective conducting network in a high-power lithium ion battery?. <i>Nano Energy</i> , 2012, 1, 429-439.	8.2	185
15	Enhancement on Cycle Performance of Zn Anodes by Activated Carbon Modification for Neutral Rechargeable Zinc Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1439-A1444.	1.3	164
16	Co-electro-deposition of the MnO <sub>2</sub> -PEDOT:PSS nanostructured composite for high areal mass, flexible asymmetric supercapacitor devices. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12432.	5.2	163
17	A review of gassing behavior in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -based lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6368-6381.	5.2	157
18	Preparation and characterization of manganese dioxides with nano-sized tunnel structures for zinc ion storage. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1487-1491.	1.9	153

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19	Carbon coating to suppress the reduction decomposition of electrolyte on the Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrode. <i>Journal of Power Sources</i> , 2012, 202, 253-261.	4.0	142
20	Combining Fast Li-Ion Battery Cycling with Large Volumetric Energy Density: Grain Boundary Induced High Electronic and Ionic Conductivity in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Spheres of Densely Packed Nanocrystallites. <i>Chemistry of Materials</i> , 2015, 27, 5647-5656.	3.2	142
21	Quasi-Solid-State Dual-Ion Sodium Metal Batteries for Low-Cost Energy Storage. <i>CheM</i> , 2020, 6, 902-918.	5.8	137
22	Porous graphitic carbons prepared by combining chemical activation with catalytic graphitization. <i>Carbon</i> , 2011, 49, 725-729.	5.4	131
23	Electrochemical properties of nanosized hydrous manganese dioxide synthesized by a self-reacting microemulsion method. <i>Journal of Power Sources</i> , 2008, 180, 664-670.	4.0	128
24	Non-Flammable Liquid and Quasi-Solid Electrolytes toward Highly-Safe Alkali Metal-Based Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2008644.	7.8	127
25	Self-Healing Materials for Energy-Storage Devices. <i>Advanced Functional Materials</i> , 2020, 30, 1909912.	7.8	121
26	The effect of graphene wrapping on the performance of LiFePO <sub>4</sub> for a lithium ion battery. <i>Carbon</i> , 2013, 57, 530-533.	5.4	115
27	Asymmetric Activated Carbon-Manganese Dioxide Capacitors in Mild Aqueous Electrolytes Containing Alkaline-Earth Cations. <i>Journal of the Electrochemical Society</i> , 2009, 156, A435.	1.3	109
28	Carbon aerogel supported Pt-Ru catalysts for using as the anode of direct methanol fuel cells. <i>Carbon</i> , 2007, 45, 429-435.	5.4	99
29	Reversible Insertion Properties of Zinc Ion into Manganese Dioxide and Its Application for Energy Storage. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, A61.	2.2	99
30	Flexible supercapacitors. <i>Particuology</i> , 2013, 11, 371-377.	2.0	92
31	Investigation of cyano resin-based gel polymer electrolyte: in situ gelation mechanism and electrode-electrolyte interfacial fabrication in lithium-ion battery. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20059-20066.	5.2	92
32	A synergistic exploitation to produce high-voltage quasi-solid-state lithium metal batteries. <i>Nature Communications</i> , 2021, 12, 5746.	5.8	89
33	Charge storage mechanism of manganese dioxide for capacitor application: Effect of the mild electrolytes containing alkaline and alkaline-earth metal cations. <i>Journal of Power Sources</i> , 2011, 196, 7854-7859.	4.0	88
34	How a very trace amount of graphene additive works for constructing an efficient conductive network in LiCoO <sub>2</sub> -based lithium-ion batteries. <i>Carbon</i> , 2016, 103, 356-362.	5.4	87
35	Capacitive Behavior and Charge Storage Mechanism of Manganese Dioxide in Aqueous Solution Containing Bivalent Cations. <i>Journal of the Electrochemical Society</i> , 2009, 156, A73.	1.3	86
36	A dual-functional gel-polymer electrolyte for lithium ion batteries with superior rate and safety performances. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18888-18895.	5.2	85

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37	Supercapacitive studies on amorphous MnO <sub>2</sub> in mild solutions. <i>Journal of Power Sources</i> , 2008, 184, 691-694.	4.0	81
38	Enhanced performance of interconnected LiFePO <sub>4</sub> /C microspheres with excellent multiple conductive network and subtle mesoporous structure. <i>Electrochimica Acta</i> , 2015, 152, 398-407.	2.6	75
39	Twin-functional graphene oxide: compacting with Fe <sub>2</sub> O <sub>3</sub> into a high volumetric capacity anode for lithium ion battery. <i>Energy Storage Materials</i> , 2017, 6, 98-103.	9.5	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. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13340-13349.	5.2	71
41	A graphene-based nanostructure with expanded ion transport channels for high rate Li-ion batteries. <i>Chemical Communications</i> , 2012, 48, 5904.	2.2	68
42	Structure and Electrochemical Properties of Zn-Doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as Anode Materials in Li-Ion Battery. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, A36.	2.2	67
43	Tailoring Microstructure of Graphene-Based Membrane by Controlled Removal of Trapped Water Inspired by the Phase Diagram. <i>Advanced Functional Materials</i> , 2014, 24, 3456-3463.	7.8	67
44	Deterioration mechanism of LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> /graphite/SiO <sub>x</sub> power batteries under high temperature and discharge cycling conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 65-72.	5.2	66
45	Influences of Mesopore Size on Oxygen Reduction Reaction Catalysis of Pt/Carbon Aerogels. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2040-2043.	1.5	65
46	Modeling the in-plane thermal conductivity of a graphite/polymer composite sheet with a very high content of natural flake graphite. <i>Carbon</i> , 2012, 50, 5052-5061.	5.4	65
47	Enabling flexible solid-state Zn batteries via tailoring sulfur deficiency in bimetallic sulfide nanotube arrays. <i>Nano Energy</i> , 2020, 77, 105165.	8.2	65
48	The Effect of Vanadium on Physicochemical and Electrochemical Performances of LiFePO <sub>4</sub> Cathode for Lithium Battery. <i>Journal of the Electrochemical Society</i> , 2011, 158, A26.	1.3	64
49	Deterioration of lithium iron phosphate/graphite power batteries under high-rate discharge cycling. <i>Electrochimica Acta</i> , 2015, 176, 270-279.	2.6	59
50	Experiments and modeling of thermal conductivity of flake graphite/polymer composites affected by adding carbon-based nano-fillers. <i>Carbon</i> , 2013, 57, 452-459.	5.4	56
51	Highly Crystalline Lithium Titanium Oxide Sheets Coated with Nitrogen-Doped Carbon enable High-Rate Lithium-Ion Batteries. <i>ChemSusChem</i> , 2014, 7, 2567-2574.	3.6	55
52	A unique carbon with a high specific surface area produced by the carbonization of agar in the presence of graphene. <i>Chemical Communications</i> , 2013, 49, 10427-10429.	2.2	52
53	Suppression of interfacial reactions between Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrode and electrolyte solution via zinc oxide coating. <i>Electrochimica Acta</i> , 2015, 157, 266-273.	2.6	51
54	Large Polarization of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Lithiated to 0 V at Large Charge/Discharge Rates. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18788-18796.	4.0	51

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55	A study on charge storage mechanism of $\text{Li}^{\pm}\text{-MnO}_2$ by occupying tunnels with metal cations ( $\text{Ba}^{2+}$ , $\text{K}^+$ ). Journal of Power Sources, 2011, 196, 7860-7867.	4.0	49
56	The preparation of graphene decorated with manganese dioxide nanoparticles by electrostatic adsorption for use in supercapacitors. Carbon, 2012, 50, 5034-5043.	5.4	49
57	Effects of state of charge on the degradation of $\text{LiFePO}_4$ /graphite batteries during accelerated storage test. Journal of Alloys and Compounds, 2015, 639, 406-414.	2.8	49
58	$\text{LiFePO}_4$ /C composite with 3D carbon conductive network for rechargeable lithium ion batteries. Electrochimica Acta, 2013, 109, 512-518.	2.6	48
59	Conductive graphene-based macroscopic membrane self-assembled at a liquid-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.	2.8	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.	2.2	44
62	Electrode thickness control: Precondition for quite different functions of graphene conductive additives in $\text{LiFePO}_4$ electrode. Carbon, 2015, 92, 311-317.	5.4	42
63	Structural and thermal stabilities of layered $\text{Li}(\text{Ni}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3})\text{O}_2$ materials in 18650 high power batteries. Journal of Power Sources, 2011, 196, 10322-10327.	4.0	40
64	Effects of tin doping on physicochemical and electrochemical performances of $\text{LiFe}_{1-x}\text{Sn}_x\text{PO}_4$ /C ( $0 \leq x \leq 0.07$ ) composite cathode materials. Electrochimica Acta, 2011, 56, 7385-7391.	2.6	38
65	Anomalous effect of K ions on electrochemical capacitance of amorphous $\text{MnO}_2$ . Journal of Power Sources, 2013, 234, 1-7.	4.0	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.	5.8	36
67	High loading of Pt-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.	2.3	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.	3.6	31
69	Effects of current densities on the formation of $\text{LiCoO}_2$ /graphite lithium ion battery. Journal of Solid State Electrochemistry, 2011, 15, 1977-1985.	1.2	30
70	Li-ion Reaction to Improve the Rate Performance of Nanoporous Anatase $\text{TiO}_2$ Anodes. Energy Technology, 2013, 1, 668-674.	1.8	30
71	Inorganic-based sol-gel synthesis of nano-structured $\text{LiFePO}_4$ /C composite materials for lithium ion batteries. Journal of Solid State Electrochemistry, 2012, 16, 1353-1362.	1.2	29
72	pH-Mediated fine-tuning of optical properties of graphene oxide membranes. Carbon, 2012, 50, 3233-3239.	5.4	29

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73	An interlaced silver vanadium oxide-graphene hybrid with high structural stability for use in lithium ion batteries. <i>Chemical Communications</i> , 2014, 50, 13447-13450.	2.2	26
74	High catalytic activity of anatase titanium dioxide for decomposition of electrolyte solution in lithium ion battery. <i>Journal of Power Sources</i> , 2014, 268, 882-886.	4.0	25
75	Carbon coated porous tin peroxide/carbon composite electrode for lithium-ion batteries with excellent electrochemical properties. <i>Carbon</i> , 2015, 81, 739-747.	5.4	25
76	The effect of pre-carbonization of mesophase pitch-based activated carbons on their electrochemical performance for electric double-layer capacitors. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 787-794.	1.2	22
77	Surface-reconstructed graphite nanofibers as a support for cathode catalysts of fuel cells. <i>Chemical Communications</i> , 2011, 47, 3900.	2.2	21
78	Impact of evolution of cathode electrolyte interface of $\text{Li}(\text{Ni}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1})\text{O}_2$ on electrochemical performance during high voltage cycling process. <i>Journal of Energy Chemistry</i> , 2020, 47, 72-78.	7.1	20
79	The influences of multi-walled carbon nanotube addition to the anode on the performance of direct methanol fuel cells. <i>Journal of Power Sources</i> , 2008, 184, 381-384.	4.0	13
80	The Effect of Potassium Impurities Deliberately Introduced into Activated Carbon Cathodes on the Performance of Lithium-Oxygen Batteries. <i>ChemSusChem</i> , 2015, 8, 4235-4241.	3.6	13
81	Interconnected Ultrasmall $\text{V}_2\text{O}_3$ and $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Particles Construct Robust Interfaces for Long-Cycling Anodes of Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29993-30000.	4.0	12
82	Lithium titanate hybridized with trace amount of graphene used as an anode for a high rate lithium ion battery. <i>Electrochimica Acta</i> , 2014, 142, 247-253.	2.6	11
83	Enhanced oxygen reduction performance of Pt catalysts by nano-loops formed on the surface of carbon nanofiber support. <i>Carbon</i> , 2008, 46, 2140-2143.	5.4	10
84	Hierarchical Porous Graphene Bubbles as Host Materials for Advanced Lithium Sulfur Battery Cathode. <i>Frontiers in Chemistry</i> , 2021, 9, 653476.	1.8	8
85	3D Hollow Sn@Carbon-Graphene Hybrid Material as Promising Anode for Lithium-Ion Batteries. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	1.5	5
86	Graphene-Based Materials with Tailored Nanostructures for Lithium-Ion Batteries. , 2021, , 473-490.		0