

# Bote Zhao

## List of Publications by Year in descending order

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105  
papers

10,789  
citations

25014

57  
h-index

31818

101  
g-index

105  
all docs

105  
docs citations

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times ranked

11448  
citing authors

#	ARTICLE	IF	CITATIONS
1	A high-performance and durable direct NH <sub>3</sub> tubular protonic ceramic fuel cell integrated with an internal catalyst layer. <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121071.	10.8	33
2	Activating the oxygen electrocatalytic activity of layer-structured Ca <sub>0.5</sub> CoO <sub>2</sub> nanofibers by iron doping. <i>Dalton Transactions</i> , 2022, 51, 3636-3641.	1.6	0
3	An efficient and durable anode for ammonia protonic ceramic fuel cells. <i>Energy and Environmental Science</i> , 2022, 15, 287-295.	15.6	64
4	A niobium oxide with a shear structure and planar defects for high-power lithium ion batteries. <i>Energy and Environmental Science</i> , 2022, 15, 254-264.	15.6	50
5	An Efficient Steam-Induced Heterostructured Air Electrode for Protonic Ceramic Electrochemical Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	47
6	Mangrove Root-Inspired Carbon Nanotube Film for Micro-Direct Methanol Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19897-19906.	4.0	6
7	Surface restructuring of a perovskite-type air electrode for reversible protonic ceramic electrochemical cells. <i>Nature Communications</i> , 2022, 13, 2207.	5.8	65
8	Plowing-Extrusion Processes and Performance of Functional Surface Structures of Copper Current Collectors for Lithium-Ion Batteries. <i>Nanomanufacturing and Metrology</i> , 2022, 5, 336-353.	1.5	1
9	A Nonstoichiometric Niobium Oxide/Graphite Composite for Fast-Charge Lithium-Ion Batteries. <i>Small</i> , 2022, 18, .	5.2	13
10	Surface Regulating of a Double-Perovskite Electrode for Protonic Ceramic Fuel Cells to Enhance Oxygen Reduction Activity and Contaminants Poisoning Tolerance. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	24
11	A Single-Atom Fe-N-C Catalyst with Ultrahigh Utilization of Active Sites for Efficient Oxygen Reduction. <i>Small</i> , 2022, 18, .	5.2	38
12	A hierarchical Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> composite electrode for high-power lithium-ion batteries and capacitors. <i>Materials Today</i> , 2021, 45, 8-19.	8.3	61
13	Enhanced Electrochemical Performance of a Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.7</sub> Fe <sub>0.2</sub> Ni <sub>0.1</sub> O <sub>3-<math>\delta</math></sub> BaZr <sub>0.1</sub> Composite Oxygen Electrode for Protonic Ceramic Electrochemical Cells. <i>Energy &amp; Fuels</i> , 2021, 35, 14101-14109.	2.5	12
14	An oxygen reduction reaction active and durable SOFC cathode/electrolyte interface achieved via a cost-effective spray-coating. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32242-32249.	3.8	19
15	Engineering the architecture and oxygen deficiency of T-Nb <sub>2</sub> O <sub>5</sub> -carbon-graphene composite for high-rate lithium-ion batteries. <i>Nano Energy</i> , 2021, 89, 106398.	8.2	45
16	A highly efficient and durable air electrode for intermediate-temperature reversible solid oxide cells. <i>Applied Catalysis B: Environmental</i> , 2021, 299, 120631.	10.8	37
17	Promotion of oxygen reduction reaction on a double perovskite electrode by a water-induced surface modification. <i>Energy and Environmental Science</i> , 2021, 14, 1506-1516.	15.6	62
18	Densely Populated Single Atom Catalysts. <i>Small Methods</i> , 2020, 4, 1900540.	4.6	185

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19	Atomically dispersed Fe@N@C decorated with Pt-alloy core-shell nanoparticles for improved activity and durability towards oxygen reduction. <i>Energy and Environmental Science</i> , 2020, 13, 3032-3040.	15.6	185
20	Recent Advances in Titanium Niobium Oxide Anodes for High-Power Lithium-Ion Batteries. <i>Energy &amp; Fuels</i> , 2020, 34, 13321-13334.	2.5	43
21	Tuning proton-coupled electron transfer by crystal orientation for efficient water oxidization on double perovskite oxides. <i>Nature Communications</i> , 2020, 11, 4299.	5.8	93
22	Facile Room-Temperature Synthesis of a Highly Active and Robust Single-Crystal Pt Multipod Catalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 49510-49518.	4.0	17
23	Evaluation of the Volumetric Activity of the Air Electrode in a Zinc@Air Battery Using a Nitrogen and Sulfur Co-doped Metal-free Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57064-57070.	4.0	6
24	Enhanced Cr-tolerance of an SOFC cathode by an efficient electro-catalyst coating. <i>Nano Energy</i> , 2020, 72, 104704.	8.2	58
25	Recent Progress in Electrocatalysts for Acidic Water Oxidation. <i>Advanced Energy Materials</i> , 2020, 10, 2000478.	10.2	162
26	Design and understanding of dendritic mixed-metal hydroxide nanosheets@N-doped carbon nanotube array electrode for high-performance asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019, 16, 632-645.	9.5	225
27	Oxygen Defect Engineering: Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides ( <i>Adv. Funct. Mater.</i> 34/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970236.	7.8	7
28	In situ Raman study of nickel bicarbonate for high-performance energy storage device. <i>Nano Energy</i> , 2019, 64, 103919.	8.2	112
29	An amorphous Zn@P/graphite composite with chemical bonding for ultra-reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16785-16792.	5.2	30
30	Zn(Cu)Si <sub>2</sub> xP <sub>3</sub> Solid Solution Anodes for High-Performance Li-ion Batteries with Tunable Working Potentials. <i>Advanced Functional Materials</i> , 2019, 29, 1903638.	7.8	14
31	Effective Promotion of Oxygen Reduction Reaction by in Situ Formation of Nanostructured Catalyst. <i>ACS Catalysis</i> , 2019, 9, 7137-7142.	5.5	42
32	Improving the Activity for Oxygen Evolution Reaction by Tailoring Oxygen Defects in Double Perovskite Oxides. <i>Advanced Functional Materials</i> , 2019, 29, 1901783.	7.8	152
33	A new family of cation-disordered Zn(Cu)@Si@P compounds as high-performance anodes for next-generation Li-ion batteries. <i>Energy and Environmental Science</i> , 2019, 12, 2286-2297.	15.6	53
34	High-Performance Electrodes for a Hybrid Supercapacitor Derived from a Metal@Organic Framework/Graphene Composite. <i>ACS Applied Energy Materials</i> , 2019, 2, 5029-5038.	2.5	48
35	Wood@Derived Materials for Advanced Electrochemical Energy Storage Devices. <i>Advanced Functional Materials</i> , 2019, 29, 1902255.	7.8	157
36	A self-healing layered GeP anode for high-performance Li-ion batteries enabled by low formation energy. <i>Nano Energy</i> , 2019, 61, 594-603.	8.2	76

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37	Structural design of Ge-based anodes with chemical bonding for high-performance Na-ion batteries. <i>Energy Storage Materials</i> , 2019, 20, 380-387.	9.5	33
38	Operando Investigation into Dynamic Evolution of Cathode-Electrolyte Interfaces in a Li-Ion Battery. <i>Nano Letters</i> , 2019, 19, 2037-2043.	4.5	85
39	A robust 2D organic polysulfane nanosheet with grafted polycyclic sulfur for highly reversible and durable lithium-organosulfur batteries. <i>Nano Energy</i> , 2019, 57, 635-643.	8.2	69
40	Anion and cation substitution in transition-metal oxides nanosheets for high-performance hybrid supercapacitors. <i>Nano Energy</i> , 2019, 57, 22-33.	8.2	279
41	Three-dimensional porous composite framework assembled with CuO microspheres as anode current collector for lithium-ion batteries. <i>Science China Technological Sciences</i> , 2019, 62, 70-79.	2.0	9
42	From Checkerboard-Like Sand Barriers to 3D Cu@CNF Composite Current Collectors for High-Performance Batteries. <i>Advanced Science</i> , 2018, 5, 1800031.	5.6	18
43	A high-performance supercapacitor electrode based on N-doped porous graphene. <i>Journal of Power Sources</i> , 2018, 387, 43-48.	4.0	231
44	A binder-free composite anode composed of CuO nanosheets and multi-wall carbon nanotubes for high-performance lithium-ion batteries. <i>Electrochimica Acta</i> , 2018, 267, 150-160.	2.6	62
45	Harnessing the concurrent reaction dynamics in active Si and Ge to achieve high performance lithium-ion batteries. <i>Energy and Environmental Science</i> , 2018, 11, 669-681.	15.6	329
46	MOF-derived $\text{NiS}$ nanorods on graphene as an electrode for high-energy-density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4003-4012.	5.2	231
47	Rational Design of Nickel Hydroxide-Based Nanocrystals on Graphene for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702247.	10.2	211
48	One-for-All Strategy in Fast Energy Storage: Production of Pillared MOF Nanorod-Templated Positive/Negative Electrodes for the Application of High-Performance Hybrid Supercapacitor. <i>Small</i> , 2018, 14, e1800285.	5.2	75
49	A Highly Efficient Multi-phase Catalyst Dramatically Enhances the Rate of Oxygen Reduction. <i>Joule</i> , 2018, 2, 938-949.	11.7	221
50	An effective strategy to enhancing tolerance to contaminants poisoning of solid oxide fuel cell cathodes. <i>Nano Energy</i> , 2018, 47, 474-480.	8.2	76
51	An In Situ Formed, Dual-Phase Cathode with a Highly Active Catalyst Coating for Protonic Ceramic Fuel Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1704907.	7.8	82
52	A bi-functional $\text{WO}_3$ -based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. <i>Energy Storage Materials</i> , 2018, 12, 79-84.	9.5	18
53	Batteries: From Checkerboard-Like Sand Barriers to 3D Cu@CNF Composite Current Collectors for High-Performance Batteries ( <i>Adv. Sci.</i> 7/2018). <i>Advanced Science</i> , 2018, 5, 1870040.	5.6	0
54	A robust fuel cell operated on nearly dry methane at 500 $^{\circ}\text{C}$ enabled by synergistic thermal catalysis and electrocatalysis. <i>Nature Energy</i> , 2018, 3, 1042-1050.	19.8	230

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55	A highly active, CO <sub>2</sub> -tolerant electrode for the oxygen reduction reaction. <i>Energy and Environmental Science</i> , 2018, 11, 2458-2466.	15.6	202
56	Porous Co <sub>3</sub> O <sub>4</sub> nanofibers surface-modified by reduced graphene oxide as a durable, high-rate anode for lithium ion battery. <i>Electrochimica Acta</i> , 2017, 228, 241-250.	2.6	82
57	A tailored double perovskite nanofiber catalyst enables ultrafast oxygen evolution. <i>Nature Communications</i> , 2017, 8, 14586.	5.8	327
58	Controlled synthesis of three-phase Ni <sub>x</sub> Sy/rGO nanoflake electrodes for hybrid supercapacitors with high energy and power density. <i>Nano Energy</i> , 2017, 33, 522-531.	8.2	211
59	High-Performance Energy Storage and Conversion Materials Derived from a Single Metal-Organic Framework/Graphene Aerogel Composite. <i>Nano Letters</i> , 2017, 17, 2788-2795.	4.5	348
60	Electrospun Porous Perovskite La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>1-x</sub> Fe <sub>x</sub> O <sub>3-δ</sub> Nanofibers for Efficient Oxygen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700146.		
61	Functionalized Bimetallic Hydroxides Derived from Metal-Organic Frameworks for High-Performance Hybrid Supercapacitor with Exceptional Cycling Stability. <i>ACS Energy Letters</i> , 2017, 2, 1263-1269.	8.8	167
62	Unraveling the Nature of Anomalously Fast Energy Storage in T-Nb <sub>2</sub> O <sub>5</sub> . <i>Journal of the American Chemical Society</i> , 2017, 139, 7071-7081.	6.6	171
63	A high-energy, long cycle-life hybrid supercapacitor based on graphene composite electrodes. <i>Energy Storage Materials</i> , 2017, 7, 32-39.	9.5	157
64	A durable polyvinyl butyral-CsH <sub>2</sub> PO <sub>4</sub> composite electrolyte for solid acid fuel cells. <i>Journal of Power Sources</i> , 2017, 359, 1-6.	4.0	9
65	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2017, 10, 964-971.	15.6	204
66	SnS nanoparticles electrostatically anchored on three-dimensional N-doped graphene as an active and durable anode for sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1757-1763.	15.6	431
67	A Highly Efficient and Robust Nanofiber Cathode for Solid Oxide Fuel Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601890.	10.2	109
68	Nickel-based pillared MOFs for high-performance supercapacitors: Design, synthesis and stability study. <i>Nano Energy</i> , 2016, 26, 66-73.	8.2	330
69	Probing Structural Evolution and Charge Storage Mechanism of NiO <sub>2</sub> H <sub>x</sub> Electrode Materials using In Operando Resonance Raman Spectroscopy. <i>Advanced Science</i> , 2016, 3, 1500433.	5.6	90
70	One-step synthesis of architectural Ni <sub>3</sub> S <sub>2</sub> nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. <i>NPG Asia Materials</i> , 2016, 8, e300-e300.	3.8	80
71	High-performance hybrid supercapacitors based on self-supported 3D ultrathin porous quaternary Zn-Ni-Al-Co oxide nanosheets. <i>Nano Energy</i> , 2016, 28, 475-485.	8.2	173
72	Rationally Designed 3D Fe and N Codoped Graphene with Superior Electrocatalytic Activity toward Oxygen Reduction. <i>Small</i> , 2016, 12, 2549-2553.	5.2	33

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73	Facile Synthesis of a 3D Nanoarchitected $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Electrode for Ultrafast Energy Storage. <i>Advanced Energy Materials</i> , 2016, 6, 1500924.	10.2	88
74	Rational confinement of molybdenum based nanodots in porous carbon for highly reversible lithium storage. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10403-10408.	5.2	16
75	A durable, high-performance hollow-nanofiber cathode for intermediate-temperature fuel cells. <i>Nano Energy</i> , 2016, 26, 90-99.	8.2	93
76	Three Strongly Coupled Allotropes in a Functionalized Porous All-Carbon Nanocomposite as a Superior Anode for Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2016, 3, 698-703.	1.7	23
77	Dramatically enhanced reversibility of $\text{Li}_2\text{O}$ in $\text{SnO}_2$ -based electrodes: the effect of nanostructure on high initial reversible capacity. <i>Energy and Environmental Science</i> , 2016, 9, 595-603.	15.6	300
78	A polyaniline-coated mechanochemically synthesized tin oxide/graphene nanocomposite for high-power and high-energy lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 290, 61-70.	4.0	46
79	Molten salt synthesis of nitrogen-doped carbon with hierarchical pore structures for use as high-performance electrodes in supercapacitors. <i>Carbon</i> , 2015, 93, 48-58.	5.4	293
80	A comprehensive review of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -based electrodes for lithium-ion batteries: The latest advancements and future perspectives. <i>Materials Science and Engineering Reports</i> , 2015, 98, 1-71.	14.8	501
81	Multifunctional Iron Oxide Nanoflake/Graphene Composites Derived from Mechanochemical Synthesis for Enhanced Lithium Storage and Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14446-14455.	4.0	75
82	Controlled synthesis of $\text{NiCo}_2\text{S}_4$ nanostructured arrays on carbon fiber paper for high-performance pseudocapacitors. <i>Nano Energy</i> , 2015, 16, 71-80.	8.2	354
83	Core-shell structured $\text{Li}_{0.33}\text{La}_{0.56}\text{TiO}_3$ perovskite as a highly efficient and sulfur-tolerant anode for solid-oxide fuel cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8545-8551.	5.2	31
84	In situ electrochemical creation of cobalt oxide nanosheets with favorable performance as a high tap density anode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 180, 914-921.	2.6	18
85	Nickel-Based Anode with Water Storage Capability to Mitigate Carbon Deposition for Direct Ethanol Solid Oxide Fuel Cells. <i>ChemSusChem</i> , 2014, 7, 1719-1728.	3.6	59
86	Design and investigation of dual-layer electrodes for proton exchange membrane fuel cells. <i>Solid State Ionics</i> , 2014, 262, 313-318.	1.3	12
87	Cobalt-free niobium-doped barium ferrite as potential materials of dense ceramic membranes for oxygen separation. <i>Journal of Membrane Science</i> , 2014, 455, 75-82.	4.1	42
88	Non-aqueous hybrid supercapacitors fabricated with mesoporous $\text{TiO}_2$ microspheres and activated carbon electrodes with superior performance. <i>Journal of Power Sources</i> , 2014, 253, 80-89.	4.0	73
89	A freestanding composite film electrode stacked from hierarchical electrospun $\text{SnO}_2$ nanorods and graphene sheets for reversible lithium storage. <i>RSC Advances</i> , 2014, 4, 9367-9371.	1.7	26
90	Facile Mechanochemical Synthesis of Nano $\text{SnO}_2$ /Graphene Composite from Coarse Metallic Sn and Graphite Oxide: An Outstanding Anode Material for Lithium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2014, 20, 4055-4063.	1.7	98

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91	Facile synthesis of porous MgO@Ca@SnO <sub>x</sub> nanocubes implanted firmly on in situ formed carbon paper and their lithium storage properties. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9126.	5.2	25
92	3D amorphous carbon and graphene co-modified LiFePO <sub>4</sub> composite derived from polyol process as electrode for high power lithium-ion batteries. <i>Journal of Energy Chemistry</i> , 2014, 23, 363-375.	7.1	32
93	Solid lithium electrolyte-Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> composites as anodes of lithium-ion batteries showing high-rate performance. <i>Journal of Power Sources</i> , 2013, 231, 177-185.	4.0	29
94	A 3D porous architecture composed of TiO <sub>2</sub> nanotubes connected with a carbon nanofiber matrix for fast energy storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12310.	5.2	75
95	Amorphous V@C composite nanofibers electrospun from solution precursors as binder- and conductive additive-free electrodes for supercapacitors with outstanding performance. <i>Nanoscale</i> , 2013, 5, 12589.	2.8	55
96	Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrodes operated under hurdle conditions and SiO <sub>2</sub> incorporation effect. <i>Journal of Power Sources</i> , 2013, 238, 356-365.	4.0	36
97	Binder-free ±-MoO <sub>3</sub> nanobelt electrode for lithium-ion batteries utilizing van der Waals forces for film formation and connection with current collector. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4736.	5.2	142
98	Synthesis of well-crystallized Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanoplates for lithium-ion batteries with outstanding rate capability and cycling stability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13233.	5.2	67
99	Solution combustion synthesis of high-rate performance carbon-coated lithium iron phosphate from inexpensive iron (<sc>iii</sc>) raw material. <i>Journal of Materials Chemistry</i> , 2012, 22, 2900-2907.	6.7	54
100	From Paper to Paper-like Hierarchical Anatase TiO <sub>2</sub> Film Electrode for High-Performance Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012, 116, 17440-17447.	1.5	70
101	Highly flexible self-standing film electrode composed of mesoporous rutile TiO <sub>2</sub> /C nanofibers for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 85, 636-643.	2.6	81
102	A novel method to enhance rate performance of an Al-doped Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> electrode by post-synthesis treatment in liquid formaldehyde at room temperature. <i>Journal of Materials Chemistry</i> , 2012, 22, 8013.	6.7	67
103	Catalytic decomposition of hydrous hydrazine to hydrogen over oxide catalysts at ambient conditions for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 1133-1139.	3.8	35
104	Electrospinning based fabrication and performance improvement of film electrodes for lithium-ion batteries composed of TiO <sub>2</sub> hollow fibers. <i>Journal of Materials Chemistry</i> , 2011, 21, 15041.	6.7	68
105	An Active and Robust Air Electrode for Reversible Protonic Ceramic Electrochemical Cells. <i>ACS Energy Letters</i> , 0, , 1511-1520.	8.8	109