

# Bing Li

## List of Publications by Year in descending order

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65  
papers

3,979  
citations

218662

26  
h-index

118840

62  
g-index

67  
all docs

67  
docs citations

67  
times ranked

6078  
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the growth of platinum nanowires as cathode catalysts in proton exchange membrane fuel cells. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 364-375.	4.4	6
2	Facile synthesis of Pt5La nanoalloys as the enhanced electrocatalysts for oxygen reduction reaction and methanol oxidation reaction. <i>Journal of Alloys and Compounds</i> , 2022, 894, 161892.	5.5	10
3	High supercapacitance performance of nitrogen-doped Ti3C2T prepared by molten salt thermal treatment. <i>Electrochimica Acta</i> , 2022, 403, 139528.	5.2	10
4	Rationally designed Ta3N5/ZnIn2S4 1D/2D heterojunctions for boosting Visible-Light-driven hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 431, 134053.	12.7	42
5	A Review of the Transition Region of Membrane Electrode Assembly of Proton Exchange Membrane Fuel Cells: Design, Degradation, and Mitigation. <i>Membranes</i> , 2022, 12, 306.	3.0	14
6	A High-Durability Graphitic Black Pearl Supported Pt Catalyst for a Proton Exchange Membrane Fuel Cell Stack. <i>Membranes</i> , 2022, 12, 301.	3.0	3
7	High-Performance Zinc-Air Batteries Based on Bifunctional Hierarchically Porous Nitrogen-Doped Carbon. <i>Small</i> , 2022, 18, e2105928.	10.0	23
8	An Effective Strategy for Template-Free Electrodeposition of Aluminum Nanowires with Highly Controllable Irregular Morphologies. <i>Nanomaterials</i> , 2022, 12, 1390.	4.1	1
9	Influence of Degassing Treatment on the Ink Properties and Performance of Proton Exchange Membrane Fuel Cells. <i>Membranes</i> , 2022, 12, 541.	3.0	2
10	MOF-derived CoFe alloy nanoparticles encapsulated within N,O Co-doped multilayer graphitized shells as an efficient bifunctional catalyst for zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14866-14874.	10.3	12
11	The Controllable Design of Catalyst Inks to Enhance PEMFC Performance: A Review. <i>Electrochemical Energy Reviews</i> , 2021, 4, 67-100.	25.5	79
12	The synergetic effect of air pollutants and metal ions on performance of a 5 <sub>kW</sub> proton-exchange membrane fuel cell stack. <i>International Journal of Energy Research</i> , 2021, 45, 7974-7986.	4.5	4
13	Understanding the functions and modifications of interfaces in membrane electrode assemblies of proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15111-15139.	10.3	34
14	Advanced Reversal Tolerant Anode in Proton Exchange Membrane Fuel Cells: Study on the Attenuation Mechanism during Fuel Starvation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2455-2461.	8.0	17
15	Enhanced PEMFC durability with graphitized carbon black cathode catalyst supports under accelerated stress testing. <i>RSC Advances</i> , 2021, 11, 19417-19425.	3.6	11
16	3D interconnected nanoporous Ta3N5 films for photoelectrochemical water splitting: thickness-controlled synthesis and insights into stability. <i>Science China Materials</i> , 2021, 64, 1876-1888.	6.3	13
17	Modifying Carbon Supports of Catalyst for the Oxygen Reduction Reaction in Vehicle PEMFCs. <i>Automotive Innovation</i> , 2021, 4, 119-130.	5.1	15
18	Improvement of Corrosion Resistance and Electrical Conductivity of Stainless Steel 316L Bipolar Plate by Pickling and Passivation. <i>World Electric Vehicle Journal</i> , 2021, 12, 101.	3.0	2

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19	CoNiFe-LDHs decorated Ta <sub>3</sub> N <sub>5</sub> nanotube array photoanode for remarkably enhanced photoelectrochemical glycerol conversion coupled with hydrogen generation. <i>Nano Energy</i> , 2021, 89, 106326.	16.0	34
20	Ternary PtSmCo NPs electrocatalysts with enhanced oxygen reduction reaction. <i>Journal of Rare Earths</i> , 2020, 38, 1305-1311.	4.8	10
21	Surface Modification of Li-Rich Mn-Based Layered Oxide Cathodes: Challenges, Materials, Methods, and Characterization. <i>Advanced Energy Materials</i> , 2020, 10, 2002506.	19.5	108
22	Multifunctional 2D porous g-C <sub>3</sub> N <sub>4</sub> nanosheets hybridized with 3D hierarchical TiO <sub>2</sub> microflowers for selective dye adsorption, antibiotic degradation and CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , 2020, 396, 125347.	12.7	138
23	Investigation on the Carbonyl Redox of Polyimide Based on Bridged Dianhydride as Electrode in Lithium-Ion Battery. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110525.	2.9	1
24	Efficient synthesis of Pt-Co nanowires as cathode catalysts for proton exchange membrane fuel cells. <i>RSC Advances</i> , 2020, 10, 6287-6296.	3.6	26
25	Preparation of a Graphitized-Carbon-Supported PtNi Octahedral Catalyst and Application in a Proton-Exchange Membrane Fuel Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 7047-7056.	8.0	23
26	High-Repetitive Reversal Tolerant Performance of Proton-Exchange Membrane Fuel Cell by Designing a Suitable Anode. <i>ACS Omega</i> , 2020, 5, 10099-10105.	3.5	26
27	Synergy of Ti-O-based heterojunction and hierarchical 1D nanobelt/3D microflower heteroarchitectures for enhanced photocatalytic tetracycline degradation and photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2019, 378, 122072.	12.7	59
28	Construction of novel ZnTiO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> heterostructures with enhanced visible light photocatalytic activity for dye wastewater treatment. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6322-6334.	2.2	12
29	Unique 1D/3D K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> /TiO <sub>2</sub> micro-nano heteroarchitectures: controlled hydrothermal crystal growth and enhanced photocatalytic performance for water purification. <i>Catalysis Science and Technology</i> , 2019, 9, 7023-7033.	4.1	17
30	High performance octahedral PtNi/C catalysts investigated from rotating disk electrode to membrane electrode assembly. <i>Nano Research</i> , 2019, 12, 281-287.	10.4	44
31	A Novel High-Capacity Anode Material Derived from Aromatic Imides for Lithium-Ion Batteries. <i>Small</i> , 2018, 14, e1704094.	10.0	26
32	Excellent oxygen evolution reaction of NiO with a layered nanosphere structure as the cathode of lithium-oxygen batteries. <i>RSC Advances</i> , 2018, 8, 3357-3363.	3.6	15
33	Mangosteen peel-derived porous carbon: synthesis and its application in the sulfur cathode for lithium sulfur battery. <i>Journal of Materials Science</i> , 2018, 53, 11062-11077.	3.7	51
34	Oxygen-doped carbon host with enhanced bonding and electron attraction abilities for efficient and stable SnO <sub>2</sub> /carbon composite battery anode. <i>Science China Materials</i> , 2018, 61, 1067-1077.	6.3	12
35	Electrode Materials, Electrolytes, and Challenges in Nonaqueous Lithium-Ion Capacitors. <i>Advanced Materials</i> , 2018, 30, e1705670.	21.0	334
36	Multifunctional 3D K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> nanobelt-built architectures towards wastewater remediation: selective adsorption, photodegradation, mechanism insight and photoelectrochemical investigation. <i>Catalysis Science and Technology</i> , 2018, 8, 6180-6195.	4.1	44

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37	Direct electrodeposition of ionic liquid-based template-free SnCo alloy nanowires as an anode for Li-ion batteries. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018, 25, 1027-1034.	4.9	16
38	Direct Electrodeposition of Aluminum Nanowires from a Room Temperature Ionic Liquid: An Electrochemical 2D-3D-1D Process. <i>Journal of the Electrochemical Society</i> , 2018, 165, D641-D646.	2.9	6
39	Molten salt assisted in-situ synthesis of TiO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> composites with enhanced visible-light-driven photocatalytic activity and adsorption ability. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 362, 1-13.	3.9	51
40	Agricultural waste-derived activated carbon for high performance lithium-ion capacitors. <i>RSC Advances</i> , 2017, 7, 37923-37928.	3.6	38
41	2D graphitic-C <sub>3</sub> N <sub>4</sub> hybridized with 1D flux-grown Na-modified K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> nanobelts for enhanced simulated sunlight and visible-light photocatalytic performance. <i>Catalysis Science and Technology</i> , 2017, 7, 4064-4078.	4.1	86
42	The Effects of Nd <sub>2</sub> O <sub>3</sub> on Current Efficiency of Nd Extraction from Nd <sub>3</sub> -LiF-Nd <sub>2</sub> O <sub>3</sub> Melts. <i>Materials Transactions</i> , 2017, 58, 395-399.	1.2	9
43	The flux growth of single-crystalline CoTiO <sub>3</sub> polyhedral particles and improved visible-light photocatalytic activity of heterostructured CoTiO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> composites. <i>Dalton Transactions</i> , 2016, 45, 17748-17758.	3.3	65
44	High-quality spinel LiCoTiO <sub>4</sub> single crystals with co-exposed {111} and {110} facets: flux growth, formation mechanism, magnetic behavior and their application in photocatalysis. <i>CrystEngComm</i> , 2016, 18, 6926-6933.	2.6	11
45	Activated Carbon from Biomass Transfer for High Energy Density Lithium Ion Supercapacitors. <i>Advanced Energy Materials</i> , 2016, 6, 1600802.	19.5	229
46	One-Step Synthesis of Microporous Carbon Monoliths Derived from Biomass with High Nitrogen Doping Content for Highly Selective CO <sub>2</sub> Capture. <i>Scientific Reports</i> , 2016, 6, 30049.	3.3	82
47	Enhancing the electrochemistry performance of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> for Li-ion battery anodes by a sol-gel assisted molten salt method and graphene modification. <i>RSC Advances</i> , 2016, 6, 110032-110039.	3.6	21
48	Template-free electrodeposition of AlFe alloy nanowires from a room-temperature ionic liquid as an anode material for Li-ion batteries. <i>Faraday Discussions</i> , 2016, 190, 97-108.	3.2	6
49	Cathodic processes of neodymium (III) in LiF-Nd <sub>3</sub> -Nd <sub>2</sub> O <sub>3</sub> melts. <i>Faraday Discussions</i> , 2016, 190, 339-349.	3.2	20
50	Recent advances in Pt-based octahedral nanocrystals as high performance fuel cell catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11559-11581.	10.3	54
51	Nitrogen-doped activated carbon for a high energy hybrid supercapacitor. <i>Energy and Environmental Science</i> , 2016, 9, 102-106.	30.8	910
52	Defect creation in metal-organic frameworks for rapid and controllable decontamination of roxarsone from aqueous solution. <i>Journal of Hazardous Materials</i> , 2016, 302, 57-64.	12.4	134
53	Inward lithium-ion breathing of hierarchically porous silicon anodes. <i>Nature Communications</i> , 2015, 6, 8844.	12.8	217
54	Low temperature synthesis and characterization of substitutional Na-modified K <sub>2</sub> Ti <sub>6</sub> O <sub>13</sub> nanobelts with improved photocatalytic activity under UV irradiation. <i>RSC Advances</i> , 2015, 5, 66086-66095.	3.6	30

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55	Electrodeposition of SmCo alloy nanowires with a large length-diameter ratio from $\text{SmCl}_3 \cdot 6\text{H}_2\text{O} / \text{CoCl}_2 \cdot 6\text{H}_2\text{O}$ in 1-ethyl-3-methylimidazolium chloride ionic liquid without template. <i>RSC Advances</i> , 2015, 5, 39620-39624.	3.6	16
56	The durability of carbon supported Pt nanowire as novel cathode catalyst for a 1.5 kW PEMFC stack. <i>Applied Catalysis B: Environmental</i> , 2015, 162, 133-140.	20.2	56
57	Effect of contact interface between $\text{TiO}_2$ and g-C <sub>3</sub> N <sub>4</sub> on the photoreactivity of g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> photocatalyst: (0 0 1) vs (1 0 1) facets of TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2015, 164, 420-427.	20.2	461
58	Carbon-supported Pt nanowire as novel cathode catalysts for proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2014, 262, 488-493.	7.8	39
59	Investigation of the temperature-related performance of proton exchange membrane fuel cell stacks in the presence of CO. <i>International Journal of Energy Research</i> , 2014, 38, 277-284.	4.5	3
60	Anode processes for Nd electrowinning from $\text{LiF-NdF}_3\text{-Nd}_2\text{O}_3$ melt. <i>Electrochimica Acta</i> , 2014, 147, 82-86.	5.2	15
61	Pt nanowire electrocatalysts for proton exchange membrane fuel cells. <i>Chinese Journal of Catalysis</i> , 2013, 34, 1471-1481.	14.0	22
62	Corrosion resistance of steel materials in LiCl-KCl melts. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2012, 19, 930-933.	4.9	9
63	Pulse current electrodeposition of Al from an $\text{AlCl}_3\text{-EMIC}$ ionic liquid. <i>Electrochimica Acta</i> , 2011, 56, 5478-5482.	5.2	61
64	Recovery of $[\text{BMIM}]\text{FeCl}_4$ from homogeneous mixture using a simple chemical method. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1275-1277.	2.7	22
65	Electrodeposition of [001] oriented TiB <sub>2</sub> coatings. <i>Materials Letters</i> , 2005, 59, 3234-3237.	2.6	11