

# Li-Xue Zhang

## List of Publications by Year in descending order

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92  
papers

6,924  
citations

50276

46  
h-index

58581

82  
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93  
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93  
docs citations

93  
times ranked

9953  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-doped Co <sub>3</sub> O <sub>4</sub> nanowires enable high-efficiency electrochemical oxidation of 5-hydroxymethylfurfural. Chinese Chemical Letters, 2022, 33, 385-389.	9.0	32
2	Nitrogen doped CuCo <sub>2</sub> O <sub>4</sub> nanoparticles anchored on beaded-like carbon nanofibers as an efficient bifunctional oxygen catalyst toward zinc-air battery. Journal of Colloid and Interface Science, 2022, 608, 1105-1115.	9.4	28
3	Three-dimensional Ni-MoN nanorod array as active and non-precious metal electrocatalyst for methanol oxidation reaction. Journal of Electroanalytical Chemistry, 2022, 906, 116001.	3.8	9
4	Efficient Hydrogen Evolution Reaction with Bulk and Nanostructured Mitrofanovite Pt <sub>3</sub> Te <sub>4</sub> . Nanomaterials, 2022, 12, 558.	4.1	3
5	Catalytic Kinetics Regulation for Enhanced Electrochemical Nitrogen Oxidation by Ru@Nanoclusters@Coupled Mn <sub>3</sub> O <sub>4</sub> Catalysts Decorated with Atomically Dispersed Ru Atoms. Advanced Materials, 2022, 34, e2108180.	21.0	57
6	Bifunctional Ni-Fe/NiMoN nanosheets on Ni foam for high-efficiency and durable overall water splitting. Catalysis Communications, 2022, 164, 106426.	3.3	9
7	Platinum Cluster/Carbon Quantum Dots Derived Graphene Heterostructured Carbon Nanofibers for Efficient and Durable Solar-Driven Electrochemical Hydrogen Evolution. Small Methods, 2022, 6, e2101470.	8.6	72
8	Biochar aerogel decorated with thiophene S manipulated 5-membered rings boosts nitrogen fixation. Applied Catalysis B: Environmental, 2022, 313, 121425.	20.2	5
9	Nickel@Cobalt Hydrogen Phosphate on Nickel Nitride Supported on Nickel Foam for Alkaline Seawater Electrolysis. ACS Applied Materials & Interfaces, 2022, 14, 22061-22070.	8.0	38
10	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	9.0	91
11	Crystal Phase-Related Toxicity of One-Dimensional Titanium Dioxide Nanomaterials on Kidney Cells. ACS Applied Bio Materials, 2021, 4, 3499-3506.	4.6	5
12	MOF-Derived Fe-Doped Ni@NC Hierarchical Hollow Microspheres as an Efficient Electrocatalyst for Alkaline Oxygen Evolution Reaction. ACS Omega, 2021, 6, 11077-11082.	3.5	20
13	Atomic Layer Deposition of NiO on Self-Supported Co <sub>3</sub> O <sub>4</sub> Nanoneedle Array for Electrocatalytic Methanol Oxidation Reaction. Energy Technology, 2021, 9, 2100112.	3.8	6
14	Co/MoN hetero-interface nanoflake array with enhanced water dissociation capability achieves the Pt-like hydrogen evolution catalytic performance. Applied Catalysis B: Environmental, 2021, 286, 119882.	20.2	109
15	Red Phosphorus Decorated TiO <sub>2</sub> Nanorod Mediated Photodynamic and Photothermal Therapy for Renal Cell Carcinoma. Small, 2021, 17, e2101837.	10.0	26
16	Mitrofanovite Pt <sub>3</sub> Te <sub>4</sub> : A Topological Metal with Termination-Dependent Surface Band Structure and Strong Spin Polarization. ACS Nano, 2021, 15, 14786-14793.	14.6	13
17	Unveiling the Mechanisms Ruling the Efficient Hydrogen Evolution Reaction with Mitrofanovite Pt <sub>3</sub> Te <sub>4</sub> . Journal of Physical Chemistry Letters, 2021, 12, 8627-8636.	4.6	13
18	Selective nitrogen reduction to ammonia on iron porphyrin-based single-site metal-organic frameworks. Journal of Materials Chemistry A, 2021, 9, 4673-4678.	10.3	42

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19	Fabrication of titanium nitride nanoparticles onto carbon nanotubes by atomic layer deposition for utilization as Pt electrocatalyst supports. <i>Rare Metals</i> , 2020, 39, 784-791.	7.1	23
20	Nitrogen-doped Binary Spinel $\text{CuCo}_2\text{O}_4/\text{C}$ Nanocomposite: An Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ChemNanoMat</i> , 2020, 6, 1652-1657.	2.8	12
21	Research progress of nanocellulose for electrochemical energy storage: A review. <i>Journal of Energy Chemistry</i> , 2020, 51, 342-361.	12.9	67
22	Transition-Metal Dichalcogenide $\text{NiTe}_2$ : An Ambient-Stable Material for Catalysis and Nanoelectronics. <i>Advanced Functional Materials</i> , 2020, 30, 2000915.	14.9	45
23	A Janus $\text{Fe}_3\text{SnO}_2$ Catalyst that Enables Bifunctional Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10888-10893.	13.8	192
24	Bacterial cellulose: an encouraging eco-friendly nano-candidate for energy storage and energy conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5812-5842.	10.3	107
25	A Janus $\text{Fe}_3\text{SnO}_2$ Catalyst that Enables Bifunctional Electrochemical Nitrogen Fixation. <i>Angewandte Chemie</i> , 2020, 132, 10980-10985.	2.0	57
26	Lithium ion battery separator with improved performance via side-by-side bicomponent electrospinning of PVDF-HFP/PI followed by 3D thermal crosslinking. <i>Journal of Power Sources</i> , 2020, 461, 228123.	7.8	78
27	Effect of Intrinsic Defects of Carbon Materials on the Sodium Storage Performance. <i>Advanced Energy Materials</i> , 2020, 10, 1903652.	19.5	194
28	Preparation of Platinum Catalysts on Porous Titanium Nitride Supports by Atomic Layer Deposition and Their Catalytic Performance for Oxygen Reduction Reaction. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2020, 36, 1906070-0.	4.9	8
29	Enhanced Electrochemical $\text{N}_2$ Reduction to $\text{NH}_3$ on Reduced Graphene Oxide by Tannic Acid Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14368-14372.	6.7	17
30	$\text{ZnCo}_2\text{S}_4$ nanosheet array anchored on nickel foam as electrocatalyst for electrochemical water splitting. <i>Electrochemistry Communications</i> , 2019, 105, 106487.	4.7	28
31	Defect-Rich Nitrogen Doped $\text{Co}_3\text{O}_4/\text{C}$ Porous Nanocubes Enable High Efficiency Bifunctional Oxygen Electrocatalysis. <i>Advanced Functional Materials</i> , 2019, 29, 1902875.	14.9	233
32	3D Sulfur and Nitrogen Codoped Carbon Nanofiber Aerogels with Optimized Electronic Structure and Enlarged Interlayer Spacing Boost Potassium-Ion Storage. <i>Small</i> , 2019, 15, e1900816.	10.0	122
33	Atomic layer deposition of ultra-trace Pt catalysts onto a titanium nitride nanowire array for electrocatalytic methanol oxidation. <i>Chemical Communications</i> , 2019, 55, 13283-13286.	4.1	8
34	In situ growth of $\text{NiTe}$ nanosheet film on nickel foam as electrocatalyst for oxygen evolution reaction. <i>Electrochemistry Communications</i> , 2018, 88, 29-33.	4.7	63
35	Phosphorus-Doped $\text{Co}_3\text{O}_4$ Nanowire Array: A Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Catalysis</i> , 2018, 8, 2236-2241.	11.2	517
36	Nickel Ditungstate Nanosheet Arrays: A Highly Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2018, 5, 1153-1158.	3.4	51

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37	Reverse Microemulsion-Assisted Synthesis of NiCo <sub>2</sub> S <sub>4</sub> Nanoflakes Supported on Nickel Foam for Electrochemical Overall Water Splitting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701396.	3.7	51
38	Nickel oxide/carbon nanotube nanocomposites prepared by atomic layer deposition for electrochemical sensing of hydroquinone and catechol. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 245-251.	3.8	117
39	Hydrophilic cobalt sulfide nanosheets as a bifunctional catalyst for oxygen and hydrogen evolution in electrolysis of alkaline aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2018, 509, 522-528.	9.4	65
40	Facile synthesis of N-doped carbon layer encapsulated Fe <sub>2</sub> N as an efficient catalyst for oxygen reduction reaction. <i>Carbon</i> , 2018, 127, 636-642.	10.3	77
41	Energy-efficient electrolytic hydrogen generation using a Cu <sub>3</sub> P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 420-423.	6.0	101
42	High-performance urea electrolysis towards less energy-intensive electrochemical hydrogen production using a bifunctional catalyst electrode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 3208-3213.	10.3	295
43	Nanostructured Bimetallic Iron Molybdenum Nitride as a Non-Precious Cathode Catalyst for Li-O <sub>2</sub> Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 720-724.	0.9	0
44	Fabrication of transition metal selenides and their applications in energy storage. <i>Coordination Chemistry Reviews</i> , 2017, 332, 75-99.	18.8	207
45	Zn/Fe-MOFs-derived hierarchical ball-in-ball ZnO/ZnFe <sub>2</sub> O <sub>4</sub> @carbon nanospheres with exceptional lithium storage performance. <i>Journal of Alloys and Compounds</i> , 2016, 688, 211-218.	5.5	41
46	Facile and sensitive electrochemical detection of methyl parathion based on a sensing platform constructed by the direct growth of carbon nanotubes on carbon paper. <i>RSC Advances</i> , 2016, 6, 58771-58779.	3.6	33
47	A Carbon- and Binder-Free Nanostructured Cathode for High-Performance Nonaqueous Li-O <sub>2</sub> Battery. <i>Advanced Science</i> , 2015, 2, 1500092.	11.2	76
48	Controllable Formation of Niobium Nitride/Nitrogen-Doped Graphene Nanocomposites as Anode Materials for Lithium-Ion Capacitors. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1006-1011.	2.3	58
49	High Impedance Droplet-Solid Interface Lipid Bilayer Membranes. <i>Analytical Chemistry</i> , 2015, 87, 2094-2099.	6.5	14
50	Compatible interface design of CoO-based Li-O <sub>2</sub> battery cathodes with long-cycling stability. <i>Scientific Reports</i> , 2015, 5, 8335.	3.3	102
51	Cu/(Cu(OH) <sub>2</sub> -CuO) core/shell nanorods array: in-situ growth and application as an efficient 3D oxygen evolution anode. <i>Electrochimica Acta</i> , 2015, 163, 102-106.	5.2	101
52	Interferometric Detection of Single Gold Nanoparticles Calibrated against TEM Size Distributions. <i>Small</i> , 2015, 11, 3550-3555.	10.0	4
53	High energy density sodium-ion capacitors through co-intercalation mechanism in diglyme-based electrolyte system. <i>Journal of Power Sources</i> , 2015, 297, 457-463.	7.8	63
54	Biomass-derived materials for electrochemical energy storages. <i>Progress in Polymer Science</i> , 2015, 43, 136-164.	24.7	251

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55	pH-Switchable Electrochemical Sensing Platform based on Chitosan-Reduced Graphene Oxide/Concanavalin A Layer for Assay of Glucose and Urea. <i>Analytical Chemistry</i> , 2014, 86, 1980-1987.	6.5	81
56	Molybdenum nitride/nitrogen-doped graphene hybrid material for lithium storage in lithium ion batteries. <i>Electrochimica Acta</i> , 2014, 150, 15-22.	5.2	44
57	“Pulling”-conjugated polyene biomolecules into water: enhancement of light-thermal stability and bioactivity by a facile graphene oxide-based phase-transfer approach. <i>RSC Advances</i> , 2014, 4, 48765-48769.	3.6	5
58	RuSe/reduced graphene oxide: an efficient electrocatalyst for VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>2+</sup> redox couples in vanadium redox flow batteries. <i>RSC Advances</i> , 2014, 4, 20379-20381.	3.6	31
59	The morphology transformation from helical nanofiber to helical nanotube in a diarylethene self-assembly system. <i>Chemical Communications</i> , 2014, 50, 8335-8338.	4.1	7
60	One-step, solution-processed formamidinium lead trihalide (FAPbI <sub>3</sub> )Cl <sub>x</sub> for mesoscopic perovskite polymer solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19206-19211.	2.8	130
61	Insight into Enhanced Cycling Performance of Li-O <sub>2</sub> Batteries Based on Binary CoSe <sub>2</sub> /CoO Nanocomposite Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 615-621.	4.6	52
62	Mesoporous Cobalt Molybdenum Nitride: A Highly Active Bifunctional Electrocatalyst and Its Application in Lithium-O <sub>2</sub> Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 858-865.	3.1	141
63	Carbon nanotubes/carbon paper composite electrode for sensitive detection of catechol in the presence of hydroquinone. <i>Electrochemistry Communications</i> , 2013, 34, 356-359.	4.7	41
64	Molybdenum Nitride/N-Doped Carbon Nanospheres for Lithium-O <sub>2</sub> Battery Cathode Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 3677-3682.	8.0	90
65	Mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanoflakes as electrocatalysts for rechargeable Li-O <sub>2</sub> batteries. <i>Chemical Communications</i> , 2013, 49, 3540.	4.1	167
66	Reactive Template Synthesis of Polypyrrole Nanotubes for Fabricating Metal/Conducting Polymer Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2013, 34, 528-532.	3.9	46
67	Nitrogen-doping of chemically reduced mesocarbon microbead oxide for the improved performance of lithium ion batteries. <i>Carbon</i> , 2012, 50, 1355-1362.	10.3	58
68	1D Coaxial Platinum/Titanium Nitride Nanotube Arrays with Enhanced Electrocatalytic Activity for the Oxygen Reduction Reaction: Towards Li-Air Batteries. <i>ChemSusChem</i> , 2012, 5, 1712-1715.	6.8	40
69	Oxygen-enriched carbon material for catalyzing oxygen reduction towards hybrid electrolyte Li-air battery. <i>Journal of Materials Chemistry</i> , 2012, 22, 21051.	6.7	60
70	Manganese monoxide/titanium nitride composite as high performance anode material for rechargeable Li-ion batteries. <i>Electrochimica Acta</i> , 2012, 85, 345-351.	5.2	28
71	Nanostructured Titanium Nitride/PEDOT:PSS Composite Films As Counter Electrodes of Dye-Sensitized Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 1087-1092.	8.0	105
72	Synthesis of Nitrogen-Doped MnO/Graphene Nanosheets Hybrid Material for Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 658-664.	8.0	331

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73	Graphene oxide nanosheets/multi-walled carbon nanotubes hybrid as an excellent electrocatalytic material towards VO <sub>2</sub> <sup>+</sup> /VO <sub>2</sub> <sup>+</sup> redox couples for vanadium redox flow batteries. <i>Energy and Environmental Science</i> , 2011, 4, 4710.	30.8	286
74	Molybdenum nitride based hybrid cathode for rechargeable lithium-O <sub>2</sub> batteries. <i>Chemical Communications</i> , 2011, 47, 11291.	4.1	115
75	A biocompatible titanium nitride nanorods derived nanostructured electrode for biosensing and bioelectrochemical energy conversion. <i>Biosensors and Bioelectronics</i> , 2011, 26, 4088-4094.	10.1	34
76	The enhancement of transfection efficiency of cationic liposomes by didodecyltrimethylammonium bromide coated gold nanoparticles. <i>Biomaterials</i> , 2010, 31, 1850-1857.	11.4	32
77	One-Step Synthesis of Folic Acid Protected Gold Nanoparticles and Their Receptor-Mediated Intracellular Uptake. <i>Chemistry - A European Journal</i> , 2009, 15, 9868-9873.	3.3	75
78	Monodisperse mesoporous superparamagnetic single-crystal magnetite nanoparticles for drug delivery. <i>Biomaterials</i> , 2009, 30, 1881-1889.	11.4	372
79	Monodisperse, submicrometer-scale platinum colloidal spheres with high electrocatalytic activity. <i>Electrochemistry Communications</i> , 2009, 11, 258-261.	4.7	6
80	Surface modification of poly(dimethylsiloxane) microchips using a double-chained cationic surfactant for efficiently resolving fluorescent dye adsorption. <i>Talanta</i> , 2009, 79, 959-962.	5.5	18
81	Direct Electrochemistry and Electrocatalysis of Hemoglobin in Lipid Film Incorporated with Room-Temperature Ionic Liquid. <i>Electroanalysis</i> , 2008, 20, 2171-2176.	2.9	5
82	Cationic lipid bilayer coated gold nanoparticles-mediated transfection of mammalian cells. <i>Biomaterials</i> , 2008, 29, 3617-3624.	11.4	86
83	Coating didodecyltrimethylammonium bromide onto Au nanoparticles increases the stability of its complex with DNA. <i>Journal of Controlled Release</i> , 2008, 129, 128-134.	9.9	32
84	Effect of Freeze-Thawing on Lipid Bilayer-Protected Gold Nanoparticles. <i>Langmuir</i> , 2008, 24, 3407-3411.	3.5	32
85	A new method for studying the interaction between chlorpromazine and phospholipid bilayer. <i>Biochemical and Biophysical Research Communications</i> , 2008, 373, 202-205.	2.1	15
86	Biomimetic Crystallization of Unusual Macroporous Calcium Carbonate Spherules in the Presence of Phosphatidylglycerol Vesicles. <i>Crystal Growth and Design</i> , 2008, 8, 759-762.	3.0	17
87	Lipid-based Strategies in Inorganic Nano-materials and Biomineralization Study. <i>Behavior Research Methods</i> , 2008, 7, 203-220.	4.0	1
88	Formation of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Containing Microstructures Induced by Electrostatic Assembly and Their Application in Solid-State Detection of Electrochemiluminescence. <i>Chemistry - an Asian Journal</i> , 2007, 2, 1137-1141.	3.3	6
89	Luminescent Supramolecular Microstructures Containing Ru(bpy) <sub>3</sub> <sup>2+</sup> : A Solution-Based Self-Assembly Preparation and Solid-State Electrochemiluminescence Detection Application. <i>Analytical Chemistry</i> , 2007, 79, 2588-2592.	6.5	94
90	Didodecyltrimethylammonium Bromide Lipid Bilayer-Protected Gold Nanoparticles: A Synthesis, Characterization, and Self-Assembly. <i>Langmuir</i> , 2006, 22, 2838-2843.	3.5	104

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91	Templated Assembly of Gold Nanoparticles into Microscale Tubules and Their Application in Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14179-14185.	2.6	33
92	Pt Nanoparticles: Heat Treatment-Based Preparation and Ru(bpy) <sub>3</sub> <sup>2+</sup> -Mediated Formation of Aggregates That Can Form Stable Films on Bare Solid Electrode Surfaces for Solid-State Electrochemiluminescence Detection. <i>Analytical Chemistry</i> , 2006, 78, 6674-6677.	6.5	48