

# Lili Zhang

## List of Publications by Year in descending order

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79  
papers

8,052  
citations

147566

31  
h-index

69108

77  
g-index

80  
all docs

80  
docs citations

80  
times ranked

12109  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the atomic interface of porous ceria nanorod with single palladium atoms for hydrodehalogenation reaction. <i>Nano Research</i> , 2022, 15, 1338-1346.	5.8	15
2	Synthesis of Carbon Nanotubes by Floating Catalyst Chemical Vapor Deposition and Their Applications. <i>Advanced Functional Materials</i> , 2022, 32, 2108541.	7.8	63
3	Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. <i>Chemical Engineering Journal</i> , 2022, 431, 133487.	6.6	13
4	Kinetics-Controlled Growth of Metallic Single-Wall Carbon Nanotubes from CoRe Nanoparticles. <i>ACS Nano</i> , 2022, 16, 232-240.	7.3	13
5	Bulk growth and separation of single-walled carbon nanotubes from rhenium catalyst. <i>Nano Research</i> , 2022, 15, 5775-5780.	5.8	3
6	Solid supported ruthenium catalyst for growing single-walled carbon nanotubes with narrow chirality distribution. <i>Carbon</i> , 2022, 193, 35-41.	5.4	7
7	A photon-controlled diode with a new signal-processing behavior. <i>National Science Review</i> , 2022, 9, .	4.6	2
8	Synthesis of monolayer carbon-coated TiO <sub>2</sub> as visible-light-responsive photocatalysts. <i>Applied Materials Today</i> , 2022, 27, 101498.	2.3	12
9	Analysis of right ventricular mass from magnetic resonance imaging data: a simple post-processing algorithm for correction of partial-volume effects. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H912-H922.	1.5	3
10	Substrate availability affects the partitioning of C and N in glycine between plants and soil microorganisms. <i>Archives of Agronomy and Soil Science</i> , 2021, 67, 109-121.	1.3	4
11	Enhanced electrochemical performance of MnO <sub>2</sub> nanoparticles: graphene aerogels as conductive substrates and capacitance contributors. <i>Dalton Transactions</i> , 2021, 50, 8776-8784.	1.6	6
12	A 4D continuous representation of myocardial velocity fields from tissue phase mapping magnetic resonance imaging. <i>PLoS ONE</i> , 2021, 16, e0247826.	1.1	1
13	High-throughput screening and machine learning for the efficient growth of high-quality single-wall carbon nanotubes. <i>Nano Research</i> , 2021, 14, 4610-4615.	5.8	11
14	An ultrasensitive molybdenum-based double-heterojunction phototransistor. <i>Nature Communications</i> , 2021, 12, 4094.	5.8	37
15	Dual-Phase Carbon with Co Single Atoms and Nanoparticles as a Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2103360.	7.8	107
16	Anchoring Single Copper Atoms to Microporous Carbon Spheres as High-Performance Electrocatalyst for Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2021, 31, 2104864.	7.8	115
17	How to generate graded spinal cord injuries in swine – tools and procedures. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	1.2	4
18	Enhancing photocatalytic performance by direct photo-excited electron transfer from organic pollutants to low-polymerized graphitic carbon nitride with more C-NH/NH <sub>2</sub> exposure. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120316.	10.8	26

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19	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration. <i>Science</i> , 2021, 374, 1616-1620.	6.0	32
20	Carbon fiber-promoted activation of catalyst for efficient growth of single-walled carbon nanotubes. <i>Carbon</i> , 2020, 156, 410-415.	5.4	12
21	Two-dimensional graphene/g-C <sub>3</sub> N <sub>4</sub> in-plane hybrid heterostructure for enhanced photocatalytic activity with surface-adsorbed pollutants assistant. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118397.	10.8	71
22	Regional right ventricular function in rats: a novel magnetic resonance imaging method for measurement of right ventricular strain. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H143-H153.	1.5	7
23	Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by <i>In Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 16823-16831.	7.3	51
24	Intensive smolt production is associated with deviating cardiac morphology in Atlantic salmon ( <i>Salmo salar</i> L.). <i>Aquaculture</i> , 2020, 529, 735615.	1.7	31
25	Assessment of cardiac structure and function in a murine model of temporal lobe epilepsy. <i>Epilepsy Research</i> , 2020, 161, 106300.	0.8	1
26	Accelerated magnetic resonance imaging tissue phase mapping of the rat myocardium using compressed sensing with iterative soft-thresholding. <i>PLoS ONE</i> , 2019, 14, e0218874.	1.1	10
27	Facile synthesis of nitrogen-deficient mesoporous graphitic carbon nitride for highly efficient photocatalytic performance. <i>Applied Surface Science</i> , 2019, 478, 304-312.	3.1	68
28	Monometallic nanoporous nickel with high catalytic performance towards hydrazine electro-conversion and its DFT calculations. <i>Electrochimica Acta</i> , 2019, 317, 449-458.	2.6	8
29	Internal electric field construction on dual oxygen group-doped carbon nitride for enhanced photodegradation of pollutants under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117705.	10.8	74
30	Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. <i>Carbon</i> , 2019, 149, 139-143.	5.4	17
31	Development of a Multimodal Apparatus to Generate Biomechanically Reproducible Spinal Cord Injuries in Large Animals. <i>Frontiers in Neurology</i> , 2019, 10, 223.	1.1	6
32	N-doped carbon nanotubes containing a high concentration of single iron atoms for efficient oxygen reduction. <i>NPG Asia Materials</i> , 2018, 10, e461-e461.	3.8	103
33	Anchoring effect of Ni <sup>2+</sup> in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. <i>Carbon</i> , 2018, 128, 249-256.	5.4	28
34	Patterns of Invasive Growth in Malignant Gliomas—The Hippocampus Emerges as an Invasion-Spared Brain Region. <i>Neoplasia</i> , 2018, 20, 643-656.	2.3	34
35	A novel method for high precision aortic constriction that allows for generation of specific cardiac phenotypes in mice. <i>Cardiovascular Research</i> , 2018, 114, 1680-1690.	1.8	36
36	Reagent-Free Electrophoretic Synthesis of Few-Atom-Thick Metal Oxide Nanosheets. <i>Chemistry of Materials</i> , 2017, 29, 1439-1446.	3.2	14

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37	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by <i>in Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 4483-4493.	7.3	60
38	Bigger is not better: cortisol-induced cardiac growth and dysfunction in salmonids. <i>Journal of Experimental Biology</i> , 2017, 220, 2545-2553.	0.8	22
39	Noninvasive stratification of postinfarction rats based on the degree of cardiac dysfunction using magnetic resonance imaging and echocardiography. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H932-H942.	1.5	14
40	Selective Growth of Metal-Free Metallic and Semiconducting Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2017, 29, 1605719.	11.1	21
41	The same batch enabled threshold voltage tuning for vertically- or laterally-gated transparent InZnO thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600918.	0.8	0
42	NEIL3-Dependent Regulation of Cardiac Fibroblast Proliferation Prevents Myocardial Rupture. <i>Cell Reports</i> , 2017, 18, 82-92.	2.9	45
43	Regional Dysfunction After Myocardial Infarction in Rats. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	16
44	A semiautomatic method for rapid segmentation of velocity-encoded myocardial magnetic resonance imaging data. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1199-1207.	1.9	8
45	Nitrogen Fertilizer and Straw Applications Affect Uptake of <sup>13</sup> C, <sup>15</sup> N-Glycine by Soil Microorganisms in Wheat Growth Stages. <i>PLoS ONE</i> , 2017, 12, e0169016.	1.1	7
46	Three-Directional Evaluation of Mitral Flow in the Rat Heart by Phase-Contrast Cardiovascular Magnetic Resonance. <i>PLoS ONE</i> , 2016, 11, e0150536.	1.1	8
47	Synthesis and Electrochemical Lithium Storage Behavior of Carbon Nanotubes Filled with Iron Sulfide Nanoparticles. <i>Advanced Science</i> , 2016, 3, 1600113.	5.6	44
48	Environmental transmission electron microscopy investigations of Pt-Fe <sub>2</sub> O <sub>3</sub> nanoparticles for nucleating carbon nanotubes. <i>Carbon</i> , 2016, 110, 243-248.	5.4	27
49	Proton conducting sodium-alginate-gated oxide thin-film transistors with varying device structure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 3103-3109.	0.8	6
50	Elevated ventricular wall stress disrupts cardiomyocyte t-tubule structure and calcium homeostasis. <i>Cardiovascular Research</i> , 2016, 112, 443-451.	1.8	94
51	Fe Ti O based catalyst for large-chiral-angle single-walled carbon nanotube growth. <i>Carbon</i> , 2016, 107, 865-871.	5.4	11
52	Reagent-Free Synthesis and Plasmonic Antioxidation of Unique Nanostructured Metal-Metal Oxide Core-Shell Microfibers. <i>Advanced Materials</i> , 2016, 28, 4097-4104.	11.1	21
53	High Reversible Lithium Storage Capacity and Structural Changes of Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Confined inside Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2016, 6, 1501755.	10.2	109
54	Biochar Improves Soil Aggregate Stability and Water Availability in a Mollisol after Three Years of Field Application. <i>PLoS ONE</i> , 2016, 11, e0154091.	1.1	82

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55	Sustained Toll-Like Receptor 9 Activation Promotes Systemic and Cardiac Inflammation, and Aggravates Diastolic Heart Failure in SERCA2a KO Mice. <i>PLoS ONE</i> , 2015, 10, e0139715.	1.1	13
56	Sulfur-based mixotrophic denitrification corresponding to different electron donors and microbial profiling in anoxic fluidized-bed membrane bioreactors. <i>Water Research</i> , 2015, 85, 422-431.	5.3	134
57	Absence of the inflammasome adaptor ASC reduces hypoxia-induced pulmonary hypertension in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 309, L378-L387.	1.3	63
58	Assessment of Regional Myocardial Work in Rats. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, e002695.	1.3	15
59	Lithiation of Silicon Nanoparticles Confined in Carbon Nanotubes. <i>ACS Nano</i> , 2015, 9, 5063-5071.	7.3	105
60	Surgical anatomy of the superior orbit on ultra-high-resolution MRI at 9.4 Tesla. <i>Journal of Plastic Surgery and Hand Surgery</i> , 2015, 49, 284-288.	0.4	1
61	Binder-free activated graphene compact films for all-solid-state micro-supercapacitors with high areal and volumetric capacitances. <i>Energy Storage Materials</i> , 2015, 1, 119-126.	9.5	82
62	Enzymatic conversion of d-galactose to d-tagatose: Cloning, overexpression and characterization of l-arabinose isomerase from <i>Pediococcus pentosaceus</i> PC-5. <i>Microbiological Research</i> , 2014, 169, 171-178.	2.5	50
63	Double-wall carbon nanotube transparent conductive films with excellent performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1159-1164.	5.2	42
64	Growth of metal-catalyst-free nitrogen-doped metallic single-wall carbon nanotubes. <i>Nanoscale</i> , 2014, 6, 12065-12070.	2.8	21
65	Structural Changes in Iron Oxide and Gold Catalysts during Nucleation of Carbon Nanotubes Studied by <i>In Situ</i> Transmission Electron Microscopy. <i>ACS Nano</i> , 2014, 8, 292-301.	7.3	52
66	In Situ TEM Observations on the Sulfur-Assisted Catalytic Growth of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1427-1432.	2.1	26
67	Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. <i>Carbon</i> , 2013, 56, 167-172.	5.4	18
68	Growth of tadpole-like carbon nanotubes from TiO <sub>2</sub> nanoparticles. <i>Carbon</i> , 2013, 55, 253-259.	5.4	7
69	Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. <i>Journal of Materials Chemistry</i> , 2012, 22, 14149.	6.7	9
70	Heteroepitaxial Growth of Single-Walled Carbon Nanotubes from Boron Nitride. <i>Scientific Reports</i> , 2012, 2, 971.	1.6	16
71	Graphene-Like Carbon Nitride Nanosheets for Improved Photocatalytic Activities. <i>Advanced Functional Materials</i> , 2012, 22, 4763-4770.	7.8	3,009
72	Template synthesis of ultra-thin and short carbon nanotubes with two open ends. <i>Journal of Materials Chemistry</i> , 2012, 22, 15221.	6.7	16

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73	Synthesis and field emission property of carbon nanotubes with sharp tips. <i>New Carbon Materials</i> , 2011, 26, 52-56.	2.9	21
74	The effect of carbon particle morphology on the electrochemical properties of nanocarbon/polyaniline composites in supercapacitors. <i>New Carbon Materials</i> , 2011, 26, 180-186.	2.9	34
75	Importance of Oxygen in the Metal-Free Catalytic Growth of Single-Walled Carbon Nanotubes from SiO <sub>2</sub> by a Vapor-Solid Mechanism. <i>Journal of the American Chemical Society</i> , 2011, 133, 197-199.	6.6	116
76	Battery Performance and Photocatalytic Activity of Mesoporous Anatase TiO <sub>2</sub> Nanospheres/Graphene Composites by Template-Free Self-Assembly. <i>Advanced Functional Materials</i> , 2011, 21, 1717-1722.	7.8	601
77	Graphene-Wrapped Fe <sub>3</sub> O <sub>4</sub> Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. <i>Chemistry of Materials</i> , 2010, 22, 5306-5313.	3.2	1,773
78	Preparation and electrochemical property of Fe <sub>2</sub> O <sub>3</sub> nanoparticles-filled carbon nanotubes. <i>Chemical Communications</i> , 2010, 46, 8576.	2.2	116
79	Assembly of $\beta$ -Cyclodextrins Acting as Molecular Bricks onto Multiwall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 951-957.	1.5	72