

# Lin Zhao

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

2,712  
citations

201674

27  
h-index

189892

50  
g-index

76  
all docs

76  
docs citations

76  
times ranked

3466  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomaterials for treating emerging contaminants in water by adsorption and photocatalysis: Systematic review and bibliometric analysis. <i>Science of the Total Environment</i> , 2018, 627, 1253-1263.	8.0	236
2	Application of artificial intelligence to wastewater treatment: A bibliometric analysis and systematic review of technology, economy, management, and wastewater reuse. <i>Chemical Engineering Research and Design</i> , 2020, 133, 169-182.	5.6	224
3	UV/H <sub>2</sub> O <sub>2</sub> and UV/PDS Treatment of Trimethoprim and Sulfamethoxazole in Synthetic Human Urine: Transformation Products and Toxicity. <i>Environmental Science &amp; Technology</i> , 2016, 50, 2573-2583.	10.0	181
4	Entrapment of nanoscale zero-valent iron in chitosan beads for hexavalent chromium removal from wastewater. <i>Journal of Hazardous Materials</i> , 2010, 184, 724-730.	12.4	175
5	Kinetics and modeling of sulfonamide antibiotic degradation in wastewater and human urine by UV/H <sub>2</sub> O <sub>2</sub> and UV/PDS. <i>Water Research</i> , 2016, 103, 283-292.	11.3	164
6	Granulation and ferric oxides loading enable biochar derived from cotton stalk to remove phosphate from water. <i>Bioresource Technology</i> , 2015, 178, 119-125.	9.6	154
7	Degradation of Organic Micropollutants in UV/NH <sub>2</sub> Cl Advanced Oxidation Process. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9024-9033.	10.0	109
8	Mapping the scientific research on life cycle assessment: a bibliometric analysis. <i>International Journal of Life Cycle Assessment</i> , 2015, 20, 541-555.	4.7	108
9	Abiotic transformation and ecotoxicity change of sulfonamide antibiotics in environmental and water treatment processes: A critical review. <i>Water Research</i> , 2021, 202, 117463.	11.3	81
10	Adsorption behaviors and mechanisms of antibiotic norfloxacin on degradable and nondegradable microplastics. <i>Science of the Total Environment</i> , 2022, 807, 151042.	8.0	76
11	Changes of Water Hydrogen Bond Network with Different Externalities. <i>International Journal of Molecular Sciences</i> , 2015, 16, 8454-8489.	4.1	69
12	Biodegradation of marine crude oil pollution using a salt-tolerant bacterial consortium isolated from Bohai Bay, China. <i>Marine Pollution Bulletin</i> , 2016, 105, 43-50.	5.0	69
13	Effects of individual and combined zinc oxide nanoparticle, norfloxacin, and sulfamethazine contamination on sludge anaerobic digestion. <i>Bioresource Technology</i> , 2019, 273, 454-461.	9.6	69
14	Fate of tetracycline in enhanced biological nutrient removal process. <i>Chemosphere</i> , 2018, 193, 998-1003.	8.2	60
15	Effect of tetracycline on microbial community structure associated with enhanced biological N&P removal in sequencing batch reactor. <i>Bioresource Technology</i> , 2018, 256, 414-420.	9.6	55
16	Activated Sludge Microbial Community and Treatment Performance of Wastewater Treatment Plants in Industrial and Municipal Zones. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 436.	2.6	53
17	Synthesis of Quercetin Loaded Nanoparticles Based on Alginate for Pb(II) Adsorption in Aqueous Solution. <i>Nanoscale Research Letters</i> , 2015, 10, 408.	5.7	51
18	Transformation of tetracycline antibiotics with goethite: Mechanism, kinetic modeling and toxicity evaluation. <i>Water Research</i> , 2021, 199, 117196.	11.3	45

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19	Pollution control and cost analysis of wastewater treatment at industrial parks in Taihu and Haihe water basins, China. <i>Journal of Cleaner Production</i> , 2018, 172, 2435-2442.	9.3	43
20	Novel reduction of Cr(VI) from wastewater using a naturally derived microcapsule loaded with rutinâ€“Cr(III) complex. <i>Journal of Hazardous Materials</i> , 2015, 285, 336-345.	12.4	42
21	Tetracycline inhibition and transformation in microbial fuel cell systems: Performance, transformation intermediates, and microbial community structure. <i>Bioresource Technology</i> , 2021, 322, 124534.	9.6	38
22	Effects of individual and complex ciprofloxacin, fullerene C60, and ZnO nanoparticles on sludge digestion: Methane production, metabolism, and microbial community. <i>Bioresource Technology</i> , 2018, 267, 46-53.	9.6	37
23	Interaction between common antibiotics and a <i>Shewanella</i> strain isolated from an enhanced biological phosphorus removal activated sludge system. <i>Bioresource Technology</i> , 2016, 222, 114-122.	9.6	34
24	A Monte Carlo-based integrated model to optimize the cost and pollution reduction in wastewater treatment processes in a typical comprehensive industrial park in China. <i>Science of the Total Environment</i> , 2019, 647, 1-10.	8.0	34
25	Impact analysis of the implementation of cleaner production for achieving the low-carbon transition for SMEs in the Inner Mongolian coal industry. <i>Journal of Cleaner Production</i> , 2016, 127, 418-424.	9.3	33
26	Synthesis and characterization of starch- <i>g</i> -Poly(acrylic acid)/Organo-Zeolite 4A superabsorbent composites with respect to their water-holding capacities and nutrient-release behavior. <i>Polymer Composites</i> , 2017, 38, 1838-1848.	4.6	31
27	Hetero-structured TiO <sub>2</sub> /SrTiO <sub>3</sub> nanotube array film with highly reactive anatase TiO <sub>2</sub> {001} facets. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9975-9981.	10.3	30
28	Degradation of the antibiotic ornidazole in aqueous solution by using nanoscale zero-valent iron particles: kinetics, mechanism, and degradation pathway. <i>RSC Advances</i> , 2018, 8, 35062-35072.	3.6	20
29	Toxicity of tetracycline and its transformation products to a phosphorus removing <i>Shewanella</i> strain. <i>Chemosphere</i> , 2020, 246, 125681.	8.2	20
30	Toxicity and combined effects of antibiotics and nano ZnO on a phosphorus-removing <i>Shewanella</i> strain in wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 416, 125532.	12.4	20
31	Fenton-Like Oxidation of Antibiotic Ornidazole Using Biochar-Supported Nanoscale Zero-Valent Iron as Heterogeneous Hydrogen Peroxide Activator. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 1324.	2.6	19
32	Groundwater vulnerability assessment based on modified DRASTIC model: a case study in Changli County, China. <i>Geocarto International</i> , 2017, 32, 749-758.	3.5	18
33	Significant Effect of Evaporation Process on the Reaction of Sulfamethoxazole with Manganese Oxide. <i>Environmental Science &amp; Technology</i> , 2020, 54, 4856-4864.	10.0	17
34	Factor Decomposition Analysis of Energy-Related CO <sub>2</sub> Emissions in Tianjin, China. <i>Sustainability</i> , 2015, 7, 9973-9988.	3.2	16
35	Remediation of trichloroethylene contaminated soil by unactivated peroxymonosulfate: Implication on selected soil characteristics. <i>Journal of Environmental Management</i> , 2021, 285, 112063.	7.8	16
36	Projected temperature and precipitation changes using the <i>LARSâ€“WG</i> statistical downscaling model in the Shire River Basin, Malawi. <i>International Journal of Climatology</i> , 2022, 42, 400-415.	3.5	16

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37	How to achieve low/no-fossil carbon transformations: With a special focus upon mechanisms, technologies and policies. <i>Journal of Cleaner Production</i> , 2017, 163, 15-23.	9.3	15
38	Eco-Efficiency Trends and Decoupling Analysis of Environmental Pressures in Tianjin, China. <i>Sustainability</i> , 2015, 7, 15407-15422.	3.2	14
39	Effect of sulfamethoxazole and oxytetracycline on enhanced biological phosphorus removal and bacterial community structure. <i>Bioresource Technology</i> , 2021, 319, 124067.	9.6	14
40	Preparation and Characterization of Lecithin-Nano Ni/Fe for Effective Removal of PCB77. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	13
41	Pretreatment of Raw Biochar and Phosphate Removal Performance of Modified Granular Iron/Biochar. <i>Transactions of Tianjin University</i> , 2017, 23, 340-350.	6.4	13
42	Screening for Autochthonous Phytoextractors in a Heavy Metal Contaminated Coal Mining Area. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1068.	2.6	13
43	Ni-Doped TiO <sub>2</sub> /SrTiO <sub>3</sub> Heterostructured Nanotubes for High Efficiency Photoelectrocatalytic Properties under Visible Light Irradiation. <i>ChemElectroChem</i> , 2015, 2, 1174-1181.	3.4	11
44	Pseudo-polarimetric Method for Dense Haze Removal. <i>IEEE Photonics Journal</i> , 2019, 11, 1-11.	2.0	11
45	A simple and facile approach for synthesis of a free-standing TiO <sub>2</sub> nanotube layer and its photovoltaic application. <i>RSC Advances</i> , 2012, 2, 12657.	3.6	10
46	Fixed Bed Adsorption Study on Phosphate Removal Using Nanosized FeOOH-Modified Anion Resin. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5.	2.7	10
47	Enhanced adsorption of phosphate by loading nanosized ferric oxyhydroxide on anion resin. <i>Frontiers of Environmental Science and Engineering</i> , 2014, 8, 531-538.	6.0	10
48	Swelling Properties and Environmental Responsiveness of Superabsorbent Composite Based on Starch-G-Poly Acrylic Acid/Organo-Zeolite. <i>Journal of Macromolecular Science - Physics</i> , 2016, 55, 662-679.	1.0	10
49	Effect of tetracycline on bio-electrochemically assisted anaerobic methanogenic systems: Process performance, microbial community structure, and functional genes. <i>Science of the Total Environment</i> , 2022, 837, 155756.	8.0	10
50	Oxidation of nine petroleum hydrocarbon compounds by combined hydrogen peroxide/sodium persulfate catalyzed by siderite. <i>Environmental Science and Pollution Research</i> , 2020, 27, 25655-25663.	5.3	9
51	Adsorption characteristics of Cr (III) onto starch-grafted poly(acrylic acid)/organo-modified zeolite 4A composite: A novel path to the adsorption mechanisms. <i>Polymer Composites</i> , 2018, 39, 1223-1233.	4.6	8
52	Environmental opportunities and challenges of utilizing unactivated calcium peroxide to treat soils co-contaminated with mixed chlorinated organic compounds. <i>Environmental Pollution</i> , 2021, 291, 118239.	7.5	8
53	A three-dimensional electrode bioelectrochemical system for the advanced oxidation of <i>p</i> -nitrophenol in an aqueous solution. <i>RSC Advances</i> , 2020, 10, 17163-17170.	3.6	7
54	Preparation, Characteristics, and Photocatalytic Tests of Fe-Doped TiO <sub>2</sub> Films Prepared by a Sol-Gel Drain Coating via Homemade Devices. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 1732-1739.	2.4	6

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55	Synthetic Zeolites Derived from Fly Ash as Effective Mineral Sorbents for Diesel Fuel Spill Remediation. <i>Clays and Clay Minerals</i> , 2016, 64, 552-559.	1.3	6
56	Degradation of Norfloxacin in an Aqueous Solution by the Nanoscale Zero-Valent Iron-Activated Persulfate Process. <i>Journal of Nanomaterials</i> , 2020, 2020, 1-12.	2.7	6
57	Characters of chloramine decay in large looped water distribution system “the case of Tianjin, China. <i>Water Science and Technology: Water Supply</i> , 2020, 20, 1474-1483.	2.1	6
58	Development of Ecosystem Health Assessment (EHA) and Application Method: A Review. <i>Sustainability</i> , 2021, 13, 11838.	3.2	6
59	Biological removal of phosphorus and diversity analysis of microbial community in the enhanced biological phosphorus removal (EBPR) system. <i>Water and Environment Journal</i> , 2020, 34, 563-574.	2.2	5
60	Removal of Cr(VI) ions from wastewater using nanosized ferric oxyhydroxide loaded anion exchanger on a fixedbed column. <i>Desalination and Water Treatment</i> , 2014, 52, 3572-3578.	1.0	4
61	Removal and Recovery of Chromium from Aqueous Solutions by Reduction-Absorption Microreactor. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	2.4	4
62	An evaluation method for combustion characteristics of coal in cement industry. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 174-178.	1.0	3
63	Technological parameters for preparation and granulation of ammonium ion-exchange material. <i>Transactions of Tianjin University</i> , 2011, 17, 118-124.	6.4	3
64	The Opposite Effect of Metal Ions on Short-/Long-Range Water Structure: A Multiple Characterization Study. <i>International Journal of Molecular Sciences</i> , 2016, 17, 602.	4.1	3
65	Interaction between $\beta$ -lactam antibiotic and phosphorus-accumulating organisms. <i>Environmental Science and Pollution Research</i> , 2021, 28, 42071-42081.	5.3	3
66	Quality evaluation and its application to surface water ecosystem based on maximum flux principle. <i>Transactions of Tianjin University</i> , 2010, 16, 336-341.	6.4	2
67	Vadose zone mapping using geographic information systems and geostatistics a case study in the Elkhorn River Basin, Nebraska, USA. , 2011, , .		2
68	Effects of concentration and freeze-thaw on the first hydration shell structure of Zn <sup>2+</sup> ions. <i>Transactions of Tianjin University</i> , 2011, 17, 381-385.	6.4	1
69	Testing Method of Degrading Heavy Oil Pollution by Microorganisms. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 111, 012023.	0.3	1
70	Role of typical pipes in disinfection chemistry within drinking water distribution system. <i>Water Science and Technology: Water Supply</i> , 2021, 21, 1263-1276.	2.1	1
71	Application of a vertical “electric sieve” to mitigate and prevent salinization in coastal soil. <i>Land Degradation and Development</i> , 2022, 33, 2477-2486.	3.9	1
72	Storage and subsequent reactivation of phosphate-accumulating aerobic granules. <i>Transactions of Tianjin University</i> , 2011, 17, 187-193.	6.4	0

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73	Effects of shallow groundwater table on soil matric potential and hydraulic characteristics. Transactions of Tianjin University, 2014, 20, 463-468.	6.4	0
74	Experimental study on dispersion coefficient of dredger fill in reclamation region. Transactions of Tianjin University, 2014, 20, 328-334.	6.4	0
75	Synthesis of Ni/Fe Nanoparticles Utilizing PVP-SDS Bound Micelles as a Template to Remove PCB77. Nano, 2015, 10, 1550035.	1.0	0
76	AHP comprehensive evaluation on sustainable utilization of water resources in Hengshui City, China. Transactions of Tianjin University, 2015, 21, 178-182.	6.4	0