

Zhang Lu

List of Publications by Year in descending order

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101
papers

3,745
citations

136950

32
h-index

144013

57
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103
all docs

103
docs citations

103
times ranked

3794
citing authors

#	ARTICLE	IF	CITATIONS
1	Status and changes of water quality in typical near-city zones of three East African Great Lakes in Tanzania. <i>Environmental Science and Pollution Research</i> , 2022, 29, 34105-34118.	5.3	7
2	A comprehensive evaluation of organic micropollutants (OMPs) pollution and prioritization in equatorial lakes from mainland Tanzania, East Africa. <i>Water Research</i> , 2022, 217, 118400.	11.3	10
3	Distribution and Release of Volatile Organic Sulfur Compounds in Yangcheng Lake. <i>Water (Switzerland)</i> , 2022, 14, 1199.	2.7	6
4	Ring defects-rich and pyridinic N-doped graphene aerogel as floating adsorbent for efficient removal of tetracycline: Evidence from NEXAFS measurements and theoretical calculations. <i>Journal of Hazardous Materials</i> , 2022, 435, 128940.	12.4	14
5	Sediment organic matter properties facilitate understanding nitrogen transformation potentials in East African lakes. <i>Science of the Total Environment</i> , 2022, 841, 156607.	8.0	6
6	Riverine transport and water-sediment exchange of polycyclic aromatic hydrocarbons (PAHs) along the middle-lower Yangtze River, China. <i>Journal of Hazardous Materials</i> , 2021, 403, 123973.	12.4	72
7	Nitrogen budget at sediment-water interface altered by sediment dredging and settling particles: Benefits and drawbacks in managing eutrophication. <i>Journal of Hazardous Materials</i> , 2021, 406, 124691.	12.4	40
8	The biological pump effects of phytoplankton on the occurrence and benthic bioaccumulation of hydrophobic organic contaminants (HOCs) in a hypereutrophic lake. <i>Ecotoxicology and Environmental Safety</i> , 2021, 213, 112017.	6.0	16
9	Recording and response of persistent toxic substances (PTSs) in urban lake sediments to anthropogenic activities. <i>Science of the Total Environment</i> , 2021, 777, 145977.	8.0	11
10	Suspended solids induce increasing microbial ammonium recycling along the river-estuary continuum of the Yangtze River. <i>Hydrological Processes</i> , 2021, 35, e14345.	2.6	5
11	Spatial and Seasonal Distribution of 2-Methylisoborneol in a Large Eutrophic Shallow Lake, China. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	7
12	Internal loop sustains cyanobacterial blooms in eutrophic lakes: Evidence from organic nitrogen and ammonium regeneration. <i>Water Research</i> , 2021, 206, 117724.	11.3	18
13	Environmental implications from the priority pollutants screening in impoundment reservoir along the eastern route of China's South-to-North Water Diversion Project. <i>Science of the Total Environment</i> , 2021, 794, 148700.	8.0	11
14	<i>Microcystis aeruginosa</i> affects the inducible anti-predator responses of <i>Ceriodaphnia cornuta</i> . <i>Environmental Pollution</i> , 2020, 259, 113952.	7.5	22
15	Denitrification and dissimilatory nitrate reduction to ammonium in freshwater lakes of the Eastern Plain, China: Influences of organic carbon and algal bloom. <i>Science of the Total Environment</i> , 2020, 710, 136303.	8.0	41
16	<i>Daphnia</i> enhances relative reproductive allocation in response to toxic microcystis: Changes in the performance of parthenogenetic and sexual reproduction. <i>Environmental Pollution</i> , 2020, 259, 113890.	7.5	24
17	Attribution of Evapotranspiration Changes in Humid Regions of China from 1982 to 2016. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032404.	3.3	31
18	The occurrence of organochlorine pesticides (OCPs) in riverine sediments of hilly region of southern China: Implications for sources and transport processes. <i>Journal of Geochemical Exploration</i> , 2020, 216, 106580.	3.2	17

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19	Radiation dimming and decreasing water clarity fuel underwater darkening in lakes. <i>Science Bulletin</i> , 2020, 65, 1675-1684.	9.0	38
20	Role of algal accumulations on the partitioning between N ₂ production and dissimilatory nitrate reduction to ammonium in eutrophic lakes. <i>Water Research</i> , 2020, 183, 116075.	11.3	37
21	Mixotrophic <i>Ochromonas</i> Addition Improves the Harmful <i>Microcystis</i> -Dominated Phytoplankton Community in <i>In Situ</i> Microcosms. <i>Environmental Science & Technology</i> , 2020, 54, 4609-4620.	10.0	24
22	Modification-bioremediation of copper, lead, and cadmium-contaminated soil by combined ryegrass (<i>Lolium multiflorum</i> Lam.) and <i>Pseudomonas aeruginosa</i> treatment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 37668-37676.	5.3	9
23	Non-toxic and toxic <i>Microcystis aeruginosa</i> reduce the tolerance of <i>Daphnia pulex</i> to low calcium in different degrees: Based on the changes in the key life-history traits. <i>Chemosphere</i> , 2020, 248, 126101.	8.2	19
24	Emerging role of dissolved organic nitrogen in supporting algal bloom persistence in Lake Taihu, China: Emphasis on internal transformations. <i>Science of the Total Environment</i> , 2020, 736, 139497.	8.0	39
25	Research progress and prospect of environmental dredging decision-making of lake sediment. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2020, 32, 1254-1277.	0.8	4
26	High rates of ammonium recycling in northwestern Lake Taihu and adjacent rivers: An important pathway of nutrient supply in a water column. <i>Environmental Pollution</i> , 2019, 252, 1325-1334.	7.5	19
27	Utility of a macroinvertebrate-based multimetric index in subtropical shallow lakes. <i>Ecological Indicators</i> , 2019, 106, 105527.	6.3	16
28	N ₂ and N ₂ O production and emission variation during the flood period of Poyang Lake (China). <i>Aquatic Sciences</i> , 2019, 81, 1.	1.5	3
29	Combined effects of ZnO nanoparticles and toxic <i>Microcystis</i> on life-history traits of <i>Daphnia magna</i> . <i>Chemosphere</i> , 2019, 233, 482-492.	8.2	25
30	Vertical physicochemical parameter distributions and health risk assessment for trace metals in water columns in eastern Lake Tanganyika, Tanzania. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 134-145.	1.3	2
31	Nutrient enrichment homogenizes taxonomic and functional diversity of benthic macroinvertebrate assemblages in shallow lakes. <i>Limnology and Oceanography</i> , 2019, 64, 1047-1058.	3.1	68
32	Non-destructive Bioindicator of Little Egret (<i>Egretta Garzetta</i>) to Assess the Pollution of Highly Toxic Organic Pollutants in Poyang Lake Wetland. <i>Wetlands</i> , 2019, 39, 137-150.	1.5	4
33	Trophic Niche Width and Overlap of Three Benthic Living Fish Species in Poyang Lake: a Stable Isotope Approach. <i>Wetlands</i> , 2019, 39, 17-23.	1.5	10
34	Heavy metal pollution in reservoirs in the hilly area of southern China: Distribution, source apportionment and health risk assessment. <i>Science of the Total Environment</i> , 2018, 634, 158-169.	8.0	87
35	Wet deposition of atmospheric nitrogen contributes to nitrogen loading in the surface waters of Lake Tanganyika, East Africa: a case study of the Kigoma region. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11646-11660.	5.3	11
36	Spatial and temporal heterogeneities in water quality and their potential drivers in Lake Poyang (China) from 2009 to 2015. <i>Limnologica</i> , 2018, 69, 115-124.	1.5	26

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37	Spatial variation of polycyclic aromatic hydrocarbons (PAHs) in surface sediments from rivers in hilly regions of Southern China in the wet and dry seasons. <i>Ecotoxicology and Environmental Safety</i> , 2018, 156, 322-329.	6.0	35
38	Water diversion projects negatively impact lake metabolism: A case study in Lake Dazong, China. <i>Science of the Total Environment</i> , 2018, 613-614, 1460-1468.	8.0	16
39	Changes in water quality of the rivers discharging into Lake Tanganyika in Bujumbura, Burundi. <i>Aquatic Ecosystem Health and Management</i> , 2018, 21, 201-212.	0.6	9
40	Spatial and temporal variations of suspended solid concentrations from 2000 to 2013 in Poyang Lake, China. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	2.7	7
41	Chlorophytes prolong mixotrophic <i>Ochromonas</i> eliminating <i>Microcystis</i> : Temperature-dependent effect. <i>Science of the Total Environment</i> , 2018, 639, 705-713.	8.0	25
42	Nitrification and ammonium dynamics in Taihu Lake, China: seasonal competition for ammonium between nitrifiers and <i>Cyanobacteria</i> . <i>Biogeosciences</i> , 2018, 15, 733-748.	3.3	79
43	Nitrogen Fixation Occurring in Sediments: Contribution to the Nitrogen Budget of Lake Taihu, China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2661-2674.	3.0	30
44	A bibliometric review of nitrogen research in eutrophic lakes and reservoirs. <i>Journal of Environmental Sciences</i> , 2018, 66, 274-285.	6.1	34
45	Distribution patterns and ecological risk assessment of heavy metal contamination in surface sediments deposited in a typical small sized water reservoir. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2018, 30, 336-348.	0.8	6
46	Dissolved nitrous oxide and emission relating to denitrification across the Poyang Lake aquatic continuum. <i>Journal of Environmental Sciences</i> , 2017, 52, 130-140.	6.1	14
47	Using fuzzy theory and variable weights for water quality evaluation in Poyang Lake, China. <i>Chinese Geographical Science</i> , 2017, 27, 39-51.	3.0	25
48	Spatial correlation analysis of polycyclic aromatic hydrocarbons (PAHs) and organochlorine pesticides (OCPs) in sediments between Taihu Lake and its tributary rivers. <i>Ecotoxicology and Environmental Safety</i> , 2017, 142, 117-128.	6.0	55
49	Concentrations, sources and potential ecological risks of polycyclic aromatic hydrocarbons in soils from Tajikistan. <i>International Journal of Environment and Pollution</i> , 2017, 61, 13.	0.2	11
50	Combining multivariate statistical techniques and random forests model to assess and diagnose the trophic status of Poyang Lake in China. <i>Ecological Indicators</i> , 2017, 83, 74-83.	6.3	45
51	Trade-off between reproduction and lifespan of the rotifer <i>Brachionus plicatilis</i> under different food conditions. <i>Scientific Reports</i> , 2017, 7, 15370.	3.3	13
52	Heavy metal contamination in surface sediments of representative reservoirs in the hilly area of southern China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26574-26585.	5.3	13
53	Water quality assessment based on the water quality index method in Lake Poyang: The largest freshwater lake in China. <i>Scientific Reports</i> , 2017, 7, 17999.	3.3	156
54	Membrane Introduction Mass Spectrometry Combined with an Orthogonal Partial-Least Squares Calibration Model for Mixture Analysis. <i>Analytical Sciences</i> , 2017, 33, 1225-1230.	1.6	6

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55	Phosphorus fractions and their spatial distribution in surface sediments of inflow rivers in the northeastern Lake Tanganyika. Hupo Kexue/Journal of Lake Sciences, 2017, 29, 334-342.	0.8	1
56	Greenhouse gas flux at reservoirs of Jiangxi Province and its influencing factors. Hupo Kexue/Journal of Lake Sciences, 2017, 29, 1000-1008.	0.8	4
57	Fifteen-year study of environmental dredging effect on variation of nitrogen and phosphorus exchange across the sediment-water interface of an urban lake. Environmental Pollution, 2016, 219, 639-648.	7.5	59
58	Denitrification occurring on suspended sediment in a large, shallow, subtropical lake (Poyang Lake, China). Environmental Pollution, 2016, 219, 714-723.	7.5	32
59	Dissolved organic carbon content and characteristics in relation to carbon dioxide partial pressure across Poyang Lake wetlands and adjacent aquatic systems in the Changjiang basin. Environmental Pollution, 2016, 219, 714-723.	7.5	5
60	Influence of long-term inundation and nutrient addition on denitrification in sandy wetland sediments from Poyang Lake, a large shallow subtropical lake in China. Environmental Pollution, 2016, 219, 440-449.	7.5	23
61	Effects of sediment dredging on nitrogen cycling in Lake Taihu, China: Insight from mass balance based on a 2-year field study. Environmental Science and Pollution Research, 2016, 23, 3871-3883.	5.3	40
62	Polycyclic aromatic hydrocarbons (PAHs) and organochlorine pesticides (OCPs) in sediments from lakes along the middle-lower reaches of the Yangtze River and the Huaihe River of China. Limnology and Oceanography, 2016, 61, 47-60.	3.1	57
63	Dissimilatory nitrate reduction processes between the sediment-water interface in three typical wetlands of middle and lower reaches of Yangtze River. Hupo Kexue/Journal of Lake Sciences, 2016, 28, 1283-1292.	0.8	2
64	Vertical distribution characteristics of organochlorine pesticides and polycyclic aromatic hydrocarbons in a sedimentary core from Zhouxi Bay, Lake Poyang. Hupo Kexue/Journal of Lake Sciences, 2016, 28, 765-774.	0.8	1
65	The potential effects of phytoplankton on the occurrence of organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs) in water from Lake Taihu, China. Environmental Sciences: Processes and Impacts, 2015, 17, 1150-1156.	3.5	16
66	The fate of polycyclic aromatic hydrocarbons (PAHs) and organochlorine pesticides (OCPs) in water from Poyang Lake, the largest freshwater lake in China. Chemosphere, 2015, 119, 1134-1140.	8.2	102
67	Bioaccumulation and tissue distribution of organochlorine pesticides (OCPs) in freshwater fishes: a case study performed in Poyang Lake, China's largest lake. Environmental Science and Pollution Research, 2014, 21, 8740-8749.	5.3	33
68	Spatial distribution of chlorophyll a and its relationship with the environment during summer in Lake Poyang: a Yangtze-connected lake. Hydrobiologia, 2014, 732, 61-70.	2.0	56
69	Distribution of polycyclic aromatic hydrocarbon (PAH) residues in several tissues of edible fishes from the largest freshwater lake in China, Poyang Lake, and associated human health risk assessment. Ecotoxicology and Environmental Safety, 2014, 104, 323-331.	6.0	138
70	Residual levels, tissue distribution and risk assessment of organochlorine pesticides (OCPs) in edible fishes from Taihu Lake, China. Environmental Monitoring and Assessment, 2013, 185, 9265-9277.	2.7	28
71	Influence of Chironomid Larvae on oxygen and nitrogen fluxes across the sediment-water interface (Lake Taihu, China). Journal of Environmental Sciences, 2013, 25, 978-985.	6.1	25
72	Organochlorine pesticide (OCP) residues in mountain soils from Tajikistan. Environmental Sciences: Processes and Impacts, 2013, 15, 608.	3.5	20

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73	Phylogenetic beta diversity in bacterial assemblages across ecosystems: deterministic versus stochastic processes. <i>ISME Journal</i> , 2013, 7, 1310-1321.	9.8	515
74	Application of Semipermeable Membrane Devices (SPMDs) and Benthic Mussels to Evaluate the Bioavailability of Sediment-associated DDTs. <i>Soil and Sediment Contamination</i> , 2013, 22, 351-364.	1.9	4
75	Temporal and spatial variability of phytoplankton in Lake Poyang: The largest freshwater lake in China. <i>Journal of Great Lakes Research</i> , 2013, 39, 476-483.	1.9	97
76	Simplification of macrozoobenthic assemblages related to anthropogenic eutrophication and cyanobacterial blooms in two large shallow subtropical lakes in China. <i>Aquatic Ecosystem Health and Management</i> , 2012, 15, 81-91.	0.6	17
77	Evaluation of Dispersive Liquid-Liquid Microextraction Coupled with Gas Chromatography-Microelectron Capture Detection (GC-MU.ECD) for the Determination of Organochlorine Pesticides in Water Samples. <i>Analytical Sciences</i> , 2011, 27, 547.	1.6	22
78	Significance of dredging on sediment denitrification in Meiliang Bay, China: A year long simulation study. <i>Journal of Environmental Sciences</i> , 2010, 22, 68-75.	6.1	40
79	Caution Needed in Pretreatment of Sediments for Refining Phosphorus-31 Nuclear Magnetic Resonance Analysis: Results from a Comprehensive Assessment of Pretreatment with Ethylenediaminetetraacetic Acid. <i>Journal of Environmental Quality</i> , 2010, 39, 1668-1678.	2.0	34
80	Assessment of the potential mutagenicity of organochlorine pesticides (OCPs) in contaminated sediments from Taihu Lake, China. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010, 696, 62-68.	1.7	31
81	Using hexadecyl trimethyl ammonium bromide (CTAB) modified clays to clean the <i>Microcystis aeruginosa</i> blooms in Lake Taihu, China. <i>Harmful Algae</i> , 2010, 9, 413-418.	4.8	67
82	Structure of phytoplankton community and its relationship with environment factors in Lake Honghu. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2010, 22, 70-78.	0.8	6
83	Organic phosphorus species in surface sediments of a large, shallow, eutrophic lake, Lake Taihu, China. <i>Environmental Pollution</i> , 2009, 157, 2507-2513.	7.5	146
84	Distribution and bioaccumulation of organochlorine pesticides in surface sediments and benthic organisms from Taihu Lake, China. <i>Chemosphere</i> , 2009, 77, 1191-1198.	8.2	123
85	Environmental effect of sediment dredging in lake: ... the role of sediment dredging in reducing internal nitrogen release. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2009, 21, 335-344.	0.8	15
86	Environmental effect of sediment dredging in lake: ... Influence of dredging on denitrification in sediments. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2009, 21, 465-473.	0.8	4
87	Spatial heterogeneity of oxygen exchange between sediment-water interface in lakes. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2009, 21, 474-482.	0.8	5
88	Influence of Sediment Dredging on Chemical Forms and Release of Phosphorus. <i>Pedosphere</i> , 2008, 18, 34-44.	4.0	60
89	Geochemistry of Iron, Sulfur and Related Heavy Metals in Metal-Polluted Taihu Lake Sediments. <i>Pedosphere</i> , 2008, 18, 564-573.	4.0	35
90	Nitrogen and phosphorus forms and release risks of lake sediments from the middle and lower reaches of the Yangtze River. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2008, 20, 263-270.	0.8	11

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91	Distribution of organochlorine pesticide residues and potential genotoxicity in surface sediments from Lake Taihu. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2008, 20, 579-584.	0.8	9
92	Effects of hydrodynamics processes on phosphorus fluxes from sediment in large, shallow Taihu Lake. <i>Journal of Environmental Sciences</i> , 2007, 19, 1055-1060.	6.1	70
93	Nitrogen dynamics and microbial food web structure during a summer cyanobacterial bloom in a subtropical, shallow, well-mixed, eutrophic lake (Lake Taihu, China). <i>Hydrobiologia</i> , 2007, 581, 195-207.	2.0	158
94	Effects of hydrodynamics on phosphorus concentrations in water of Lake Taihu, a large, shallow, eutrophic lake of China. <i>Hydrobiologia</i> , 2007, 581, 53-61.	2.0	58
95	Chromophoric dissolved organic matter (CDOM) absorption characteristics in relation to fluorescence in Lake Taihu, China, a large shallow subtropical lake. <i>Hydrobiologia</i> , 2007, 581, 43-52.	2.0	74
96	Geochemical Forms of Phosphorus in Sediments of Three Large, Shallow Lakes of China. <i>Pedosphere</i> , 2006, 16, 726-734.	4.0	39
97	Wind-wave affected phosphate loading variations and their relationship to redox condition in Lake Taihu. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 154-161.	0.9	5
98	Carbon dioxide partial pressure and carbon fluxes of air-water interface in Taihu Lake, China. <i>Chinese Journal of Oceanology and Limnology</i> , 2005, 23, 29-38.	0.7	14
99	Wave Effects on Nutrient Release of Sediments from Lake Taihu by Flume Experiments. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2005, 17, 61-68.	0.8	14
100	Title is missing!. <i>Hydrobiologia</i> , 2002, 485, 163-171.	2.0	20
101	Characteristics of the Pollution of Heavy Metals in the Sediments of Yilihe River, Taihu Basin. <i>Hupo Kexue/Journal of Lake Sciences</i> , 2002, 14, 235-241.	0.8	29