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 g-index
103 all docs	103 docs citations	103 times ranked	3794 citing authors

#	Article	IF	Citations
1	Phylogenetic beta diversity in bacterial assemblages across ecosystems: deterministic versus stochastic processes. ISME Journal, 2013, 7, 1310-1321.	9.8	515
2	Nitrogen dynamics and microbial food web structure during a summer cyanobacterial bloom in a subtropical, shallow, well-mixed, eutrophic lake (Lake Taihu, China). Hydrobiologia, 2007, 581, 195-207.	2.0	158
3	Water quality assessment based on the water quality index method in Lake Poyang: The largest freshwater lake in China. Scientific Reports, 2017, 7, 17999.	3.3	156
4	Organic phosphorus species in surface sediments of a large, shallow, eutrophic lake, Lake Taihu, China. Environmental Pollution, 2009, 157, 2507-2513.	7.5	146
5	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
6	Distribution and bioaccumulation of organochlorine pesticides in surface sediments and benthic organisms from Taihu Lake, China. Chemosphere, 2009, 77, 1191-1198.	8.2	123
7	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
8	Temporal and spatial variability of phytoplankton in Lake Poyang: The largest freshwater lake in China. Journal of Great Lakes Research, 2013, 39, 476-483.	1.9	97
9	Heavy metal pollution in reservoirs in the hilly area of southern China: Distribution, source apportionment and health risk assessment. Science of the Total Environment, 2018, 634, 158-169.	8.0	87
10	Nitrification and ammonium dynamics in Taihu Lake, China: seasonal competition for ammonium between nitrifiers andÂcyanobacteria. Biogeosciences, 2018, 15, 733-748.	3.3	79
11	Chromophoric dissolved organic matter (CDOM) absorption characteristics in relation to fluorescence in Lake Taihu, China, a large shallow subtropical lake. Hydrobiologia, 2007, 581, 43-52.	2.0	74
12	Riverine transport and water-sediment exchange of polycyclic aromatic hydrocarbons (PAHs) along the middle-lower Yangtze River, China. Journal of Hazardous Materials, 2021, 403, 123973.	12.4	72
13	Effects of hydrodynamics processes on phosphorus fluxes from sediment in large, shallow Taihu Lake. Journal of Environmental Sciences, 2007, 19, 1055-1060.	6.1	70
14	Nutrient enrichment homogenizes taxonomic and functional diversity of benthic macroinvertebrate assemblages in shallow lakes. Limnology and Oceanography, 2019, 64, 1047-1058.	3.1	68
15	Using hexadecyl trimethyl ammonium bromide (CTAB) modified clays to clean the Microcystis aeruginosa blooms in Lake Taihu, China. Harmful Algae, 2010, 9, 413-418.	4.8	67
16	Influence of Sediment Dredging on Chemical Forms and Release of Phosphorus. Pedosphere, 2008, 18, 34-44.	4.0	60
17	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
18	Effects of hydrodynamics on phosphorus concentrations in water of Lake Taihu, a large, shallow, eutrophic lake of China. Hydrobiologia, 2007, 581, 53-61.	2.0	58

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19	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
20	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
21	Spatial correlation analysis of polycyclic aromatic hydrocarbons (PAHs) and organochlorine pesticides (OCPs) in sediments between Taihu Lake and its tributary rivers. Ecotoxicology and Environmental Safety, 2017, 142, 117-128.	6.0	55
22	Combining multivariate statistical techniques and random forests model to assess and diagnose the trophic status of Poyang Lake in China. Ecological Indicators, 2017, 83, 74-83.	6.3	45
23	Denitrification and dissimilatory nitrate reduction to ammonium in freshwater lakes of the Eastern Plain, China: Influences of organic carbon and algal bloom. Science of the Total Environment, 2020, 710, 136303.	8.0	41
24	Significance of dredging on sediment denitrification in Meiliang Bay, China: A year long simulation study. Journal of Environmental Sciences, 2010, 22, 68-75.	6.1	40
25	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
26	Nitrogen budget at sedimentâ€“water interface altered by sediment dredging and settling particles: Benefits and drawbacks in managing eutrophication. Journal of Hazardous Materials, 2021, 406, 124691.	12.4	40
27	Geochemical Forms of Phosphorus in Sediments of Three Large, Shallow Lakes of China. Pedosphere, 2006, 16, 726-734.	4.0	39
28	Emerging role of dissolved organic nitrogen in supporting algal bloom persistence in Lake Taihu, China: Emphasis on internal transformations. Science of the Total Environment, 2020, 736, 139497.	8.0	39
29	Radiation dimming and decreasing water clarity fuel underwater darkening in lakes. Science Bulletin, 2020, 65, 1675-1684.	9.0	38
30	Role of algal accumulations on the partitioning between N2 production and dissimilatory nitrate reduction to ammonium in eutrophic lakes. Water Research, 2020, 183, 116075.	11.3	37
31	Geochemistry of Iron, Sulfur and Related Heavy Metals in Metal-Polluted Taihu Lake Sediments. Pedosphere, 2008, 18, 564-573.	4.0	35
32	Spatial variation of polycyclic aromatic hydrocarbons (PAHs) in surface sediments from rivers in hilly regions of Southern China in the wet and dry seasons. Ecotoxicology and Environmental Safety, 2018, 156, 322-329.	6.0	35
33	Caution Needed in Pretreatment of Sediments for Refining Phosphorusâ€31 Nuclear Magnetic Resonance Analysis: Results from a Comprehensive Assessment of Pretreatment with Ethylenediaminetetraacetic Acid. Journal of Environmental Quality, 2010, 39, 1668-1678.	2.0	34
34	A bibliometric review of nitrogen research in eutrophic lakes and reservoirs. Journal of Environmental Sciences, 2018, 66, 274-285.	6.1	34
35	Bioaccumulation and tissue distribution of organochlorine pesticides (OCPs) in freshwater fishes: a case study performed in Poyang Lake, Chinaâ€™s largest lake. Environmental Science and Pollution Research, 2014, 21, 8740-8749.	5.3	33
36	Denitrification occurring on suspended sediment in a large, shallow, subtropical lake (Poyang Lake,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.5	32

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37	Assessment of the potential mutagenicity of organochlorine pesticides (OCPs) in contaminated sediments from Taihu Lake, China. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2010, 696, 62-68.	1.7	31
38	Attribution of Evapotranspiration Changes in Humid Regions of China from 1982 to 2016. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032404.	3.3	31
39	Nitrogen Fixation Occurring in Sediments: Contribution to the Nitrogen Budget of Lake Taihu, China. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 2661-2674.	3.0	30
40	Characteristics of the Pollution of Heavy Metals in the Sediments of Yilihe River, Taihu Basin. Hupo Kexue/Journal of Lake Sciences, 2002, 14, 235-241.	0.8	29
41	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
42	Spatial and temporal heterogeneities in water quality and their potential drivers in Lake Poyang (China) from 2009 to 2015. Limnologica, 2018, 69, 115-124.	1.5	26
43	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
44	Using fuzzy theory and variable weights for water quality evaluation in Poyang Lake, China. Chinese Geographical Science, 2017, 27, 39-51.	3.0	25
45	Chlorophytes prolong mixotrophic Ochromonas eliminating Microcystis: Temperature-dependent effect. Science of the Total Environment, 2018, 639, 705-713.	8.0	25
46	Combined effects of ZnO nanoparticles and toxic Microcystis on life-history traits of Daphnia magna. Chemosphere, 2019, 233, 482-492.	8.2	25
47	Daphnia enhances relative reproductive allocation in response to toxic microcystis: Changes in the performance of parthenogenetic and sexual reproduction. Environmental Pollution, 2020, 259, 113890.	7.5	24
48	Mixotrophic Ochromonas Addition Improves the Harmful Microcystis-Dominated Phytoplankton Community in In Situ Microcosms. Environmental Science & Technology, 2020, 54, 4609-4620.	10.0	24
49	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
50	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. Analytical Sciences, 2011, 27, 547.	1.6	22
51	Microcystis aeruginosa affects the inducible anti-predator responses of Ceriodaphnia cornuta. Environmental Pollution, 2020, 259, 113952.	7.5	22
52	Title is missing!. Hydrobiologia, 2002, 485, 163-171.	2.0	20
53	Organochlorine pesticide (OCP) residues in mountain soils from Tajikistan. Environmental Sciences: Processes and Impacts, 2013, 15, 608.	3.5	20
54	High rates of ammonium recycling in northwestern Lake Taihu and adjacent rivers: An important pathway of nutrient supply in a water column. Environmental Pollution, 2019, 252, 1325-1334.	7.5	19

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55	Non-toxic and toxic Microcystis aeruginosa reduce the tolerance of Daphnia pulex to low calcium in different degrees: Based on the changes in the key life-history traits. Chemosphere, 2020, 248, 126101.	8.2	19
56	Internal loop sustains cyanobacterial blooms in eutrophic lakes: Evidence from organic nitrogen and ammonium regeneration. Water Research, 2021, 206, 117724.	11.3	18
57	Simplification of macrozoobenthic assemblages related to anthropogenic eutrophication and cyanobacterial blooms in two large shallow subtropical lakes in China. Aquatic Ecosystem Health and Management, 2012, 15, 81-91.	0.6	17
58	The occurrence of organochlorine pesticides (OCPs) in riverine sediments of hilly region of southern China: Implications for sources and transport processes. Journal of Geochemical Exploration, 2020, 216, 106580.	3.2	17
59	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
60	Water diversion projects negatively impact lake metabolism: A case study in Lake Dazong, China. Science of the Total Environment, 2018, 613-614, 1460-1468.	8.0	16
61	Utility of a macroinvertebrate-based multimetric index in subtropical shallow lakes. Ecological Indicators, 2019, 106, 105527.	6.3	16
62	The biological pump effects of phytoplankton on the occurrence and benthic bioaccumulation of hydrophobic organic contaminants (HOCs) in a hypereutrophic lake. Ecotoxicology and Environmental Safety, 2021, 213, 112017.	6.0	16
63	Environmental effect of sediment dredging in lake: â…¡. the role of sediment dredging in reducing internal nitrogen release. Hupo Kexue/Journal of Lake Sciences, 2009, 21, 335-344.	0.8	15
64	Carbon dioxide partial pressure and carbon fluxes of air-water interface in Taihu Lake, China. Chinese Journal of Oceanology and Limnology, 2005, 23, 29-38.	0.7	14
65	Dissolved nitrous oxide and emission relating to denitrification across the Poyang Lake aquatic continuum. Journal of Environmental Sciences, 2017, 52, 130-140.	6.1	14
66	Wave Effects on Nutrient Release of Sediments from Lake Taihu by Flume Experiments. Hupo Kexue/Journal of Lake Sciences, 2005, 17, 61-68.	0.8	14
67	Ring defects-rich and pyridinic N-doped graphene aerogel as floating adsorbent for efficient removal of tetracycline: Evidence from NEXAFS measurements and theoretical calculations. Journal of Hazardous Materials, 2022, 435, 128940.	12.4	14
68	Trade-off between reproduction and lifespan of the rotifer Brachionus plicatilis under different food conditions. Scientific Reports, 2017, 7, 15370.	3.3	13
69	Heavy metal contamination in surface sediments of representative reservoirs in the hilly area of southern China. Environmental Science and Pollution Research, 2017, 24, 26574-26585.	5.3	13
70	Concentrations, sources and potential ecological risks of polycyclic aromatic hydrocarbons in soils from Tajikistan. International Journal of Environment and Pollution, 2017, 61, 13.	0.2	11
71	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. Environmental Science and Pollution Research, 2018, 25, 11646-11660.	5.3	11
72	Recording and response of persistent toxic substances (PTSs) in urban lake sediments to anthropogenic activities. Science of the Total Environment, 2021, 777, 145977.	8.0	11

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73	Environmental implications from the priority pollutants screening in impoundment reservoir along the eastern route of China's South-to-North Water Diversion Project. Science of the Total Environment, 2021, 794, 148700.	8.0	11
74	Nitrogen and phosphorus forms and release risks of lake sediments from the middle and lower reaches of the Yangtze River. Hupo Kexue/Journal of Lake Sciences, 2008, 20, 263-270.	0.8	11
75	Trophic Niche Width and Overlap of Three Benthic Living Fish Species in Poyang Lake: a Stable Isotope Approach. Wetlands, 2019, 39, 17-23.	1.5	10
76	A comprehensive evaluation of organic micropollutants (OMPs) pollution and prioritization in equatorial lakes from mainland Tanzania, East Africa. Water Research, 2022, 217, 118400.	11.3	10
77	Changes in water quality of the rivers discharging into Lake Tanganyika in Bujumbura, Burundi. Aquatic Ecosystem Health and Management, 2018, 21, 201-212.	0.6	9
78	Modification-bioremediation of copper, lead, and cadmium-contaminated soil by combined ryegrass (Lolium multiflorum Lam.) and Pseudomonas aeruginosa treatment. Environmental Science and Pollution Research, 2020, 27, 37668-37676.	5.3	9
79	Distribution of organochlorine pesticide residues and potential genotoxicity in surface sediments from Lake Taihu. Hupo Kexue/Journal of Lake Sciences, 2008, 20, 579-584.	0.8	9
80	Spatial and temporal variations of suspended solid concentrations from 2000 to 2013 in Poyang Lake, China. Environmental Earth Sciences, 2018, 77, 1.	2.7	7
81	Spatial and Seasonal Distribution of 2-Methylisoborneol in a Large Eutrophic Shallow Lake, China. Water, Air, and Soil Pollution, 2021, 232, 1.	2.4	7
82	Status and changes of water quality in typical near-city zones of three East African Great Lakes in Tanzania. Environmental Science and Pollution Research, 2022, 29, 34105-34118.	5.3	7
83	Membrane Introduction Mass Spectrometry Combined with an Orthogonal Partial-Least Squares Calibration Model for Mixture Analysis. Analytical Sciences, 2017, 33, 1225-1230.	1.6	6
84	Structure of phytoplankton community and its relationship with environment factors in Lake Honghu. Hupo Kexue/Journal of Lake Sciences, 2010, 22, 70-78.	0.8	6
85	Distribution patterns and ecological risk assessment of heavy metal contamination in surface sediments deposited in a typical small sized water reservoir. Hupo Kexue/Journal of Lake Sciences, 2018, 30, 336-348.	0.8	6
86	Distribution and Release of Volatile Organic Sulfur Compounds in Yangcheng Lake. Water (Switzerland), 2022, 14, 1199.	2.7	6
87	Sediment organic matter properties facilitate understanding nitrogen transformation potentials in East African lakes. Science of the Total Environment, 2022, 841, 156607.	8.0	6
88	Wind-wave affected phosphate loading variations and their relationship to redox condition in Lake Taihu. Science in China Series D: Earth Sciences, 2006, 49, 154-161.	0.9	5
89	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
90	Suspended solids induce increasing microbial ammonium recycling along the riverâ€estuary continuum of the Yangtze River. Hydrological Processes, 2021, 35, e14345.	2.6	5

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91	Spatial heterogeneity of oxygen exchange between sediment-water interface in lakes. Hupo Kexue/Journal of Lake Sciences, 2009, 21, 474-482.	0.8	5
92	Application of Semipermeable Membrane Devices (SPMDs) and Benthic Mussels to Evaluate the Bioavailability of Sediment-associated DDTs. Soil and Sediment Contamination, 2013, 22, 351-364.	1.9	4
93	Non-destructive Bioindicator of Little Egret (Egratta Garzetta) to Assess the Pollution of Highly Toxic Organic Pollutants in Poyang Lake Wetland. Wetlands, 2019, 39, 137-150.	1.5	4
94	Environmental effect of sediment dredging in lake: â…¢. Influence of dredging on denitrification in sediments. Hupo Kexue/Journal of Lake Sciences, 2009, 21, 465-473.	0.8	4
95	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
96	Research progress and prospect of environmental dredging decision-making of lake sediment. Hupo Kexue/Journal of Lake Sciences, 2020, 32, 1254-1277.	0.8	4
97	N2 and N2O production and emission variation during the flood period of Poyang Lake (China). Aquatic Sciences, 2019, 81, 1.	1.5	3
98	Vertical physicochemical parameter distributions and health risk assessment for trace metals in water columns in eastern Lake Tanganyika, Tanzania. Journal of Oceanology and Limnology, 2019, 37, 134-145.	1.3	2
99	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
100	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
101	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