Dunhai Li

List of Publications by Year in Descending Order

100 papers	2,364 citations	30 h-index	45 g-index
105 ext. papers	2,700 ext. citations	4.8 avg, IF	4.89 L-index

#	Paper	IF	Citations
100	Nitrogen-fixing cyanobacteria have the potential to improve nitrogen use efficiency through the reduction of ammonia volatilization in red soil paddy fields. *Soil and Tillage Research*, **2022**, 217, 105274	6.5	1
99	Different Assembly Patterns of Planktonic and Sedimentary Bacterial Community in a Few Connected Eutrophic Lakes. *Water (Switzerland)*, **2022**, 14, 723	3	2
98	Environmental factors associated with the filamentous green algae Cladophora blooms: A mesocosm experiment in a shallow eutrophic lake.. *Journal of Environmental Management*, **2022**, 313, 114977	7.9	1
97	Ionone causes endocrine disruption, hyperpigmentation and hypoactivity in zebrafish early life stages.. *Science of the Total Environment*, **2022**, 155433	10.2	1
96	Insights into the spatiotemporal differences in tailings seepage pollution by assessing the diversity and metabolic functions of the soil microbial community.. *Environmental Pollution*, **2022**, 306, 119408	9.3	0
95	Effect of substituting nitrogen fertilizer with nitrogen-fixing cyanobacteria on yield in a double-rice cropping system in southern China. *Journal of Applied Phycology*, **2021**, 33, 2221-2232	3.2	2
94	Replacing nitrogen fertilizer with nitrogen-fixing cyanobacteria reduced nitrogen leaching in red soil paddy fields. *Agriculture, Ecosystems and Environment*, **2021**, 312, 107320	5.7	6
93	Physiological and transcriptomic changes of zebrafish (Danio rerio) embryos-larvae in response to 2-MIB exposure. *Journal of Hazardous Materials*, **2021**, 416, 126142	12.8	4
92	Spatiotemporal distribution of microplastics in surface water, biofilms, and sediments in the world's largest drinking water diversion project. *Science of the Total Environment*, **2021**, 789, 148001	10.2	4
91	Environmentally relevant concentrations of geosmin affect the development, oxidative stress, apoptosis and endocrine disruption of embryo-larval zebrafish. *Science of the Total Environment*, **2020**, 735, 139373	10.2	8
90	Study on the safe disposal and resource utilization of cyanobacterial bloom biomass in Dianchi Lake, China. *Journal of Applied Phycology*, **2020**, 32, 1201-1213	3.2	2
89	Nitrogen limitation significantly reduces the competitive advantage of toxic Microcystis at high light conditions. *Chemosphere*, **2019**, 237, 124508	8.4	7
88	Sediment phosphorus release in response to flood event across different land covers in a restored wetland. *Environmental Science and Pollution Research*, **2019**, 26, 9113-9122	5.1	5
87	Trends in Diatom Research Since 1991 Based on Topic Modeling. *Microorganisms*, **2019**, 7,	4.9	13
86	Decomposition of cyanobacterial bloom contributes to the formation and distribution of iron-bound phosphorus (Fe-P): Insight for cycling mechanism of internal phosphorus loading. *Science of the Total Environment*, **2019**, 652, 696-708	10.2	32
85	The relative role of spatial and environmental processes on seasonal variations of phytoplankton beta diversity along different anthropogenic disturbances of subtropical rivers in China. *Environmental Science and Pollution Research*, **2019**, 26, 1422-1434	5.1	12
84	Temperature and silicate are significant driving factors for the seasonal shift of dominant diatoms in a drinking water reservoir. *Journal of Oceanology and Limnology*, **2019**, 37, 568-579	1.5	8

83	Nitrogen-cycling microbial community functional potential and enzyme activities in cultured biofilms with response to inorganic nitrogen availability. *Journal of Environmental Sciences*, **2019**, 76, 89-99	6.4	11
82	The role of non-rainfall water on physiological activation in desert biological soil crusts. *Journal of Hydrology*, **2018**, 556, 790-799	6	15
81	Physiological changes of submerged macrophytes in response to a floating filamentous green algae bloom in clear-water conditions. *Journal of Oceanology and Limnology*, **2018**, 36, 1604-1614	1.5	2
80	Regulating Nutrients and Phytoplankton by Extending the Habitats of Periphyton in a Deep River-Type Reservoir. *Clean - Soil, Air, Water*, **2018**, 46, 1800034	1.6	
79	The Species-Specific Responses of Freshwater Diatoms to Elevated Temperatures Are Affected by Interspecific Interactions. *Microorganisms*, **2018**, 6,	4.9	4
78	The trophic state of lake water regulates spatial-temporal variations of bloom-forming Microcystis. *Chinese Journal of Oceanology and Limnology*, **2017**, 35, 415-422		5
77	Competition between toxic and nontoxic Microcystis (Cyanophyceae) under different light and temperature conditions. *Science China Life Sciences*, **2017**, 60, 674-676	8.5	2
76	Application of sodium alginate in induced biological soil crusts: enhancing the sand stabilization in the early stage. *Journal of Applied Phycology*, **2017**, 29, 1421-1428	3.2	24
75	Operation of an enclosed aquatic ecosystem in the Shenzhou-8 mission. *Acta Astronautica*, **2017**, 134, 17-22	2.9	6
74	The influence of desiccation on the recovery process of nitrogenase activity in restored biological soil crusts. *Science China Life Sciences*, **2017**, 60, 1283-1285	8.5	
73	Microbial Succession and Nitrogen Cycling in Cultured Biofilms as Affected by the Inorganic Nitrogen Availability. *Microbial Ecology*, **2017**, 73, 1-15	4.4	17
72	Harvesting Microalgae with Different Sources of Starch-Based Cationic Flocculants. *Applied Biochemistry and Biotechnology*, **2017**, 181, 112-124	3.2	25
71	Fenced cultivation of water hyacinth for cyanobacterial bloom control. *Environmental Science and Pollution Research*, **2016**, 23, 17742-52	5.1	10
70	Photosynthetic characteristics and inferred changes in thylakoid membrane fluidity determine bloom succession between Anabaena and Microcystis in eutrophic lakes. *Journal of Applied Phycology*, **2016**, 28, 2353-2365	3.2	5
69	The effect of gradient cooling on bloom decline in Microcystis (Cyanophyceae, Chroococcales). *Phycologia*, **2016**, 55, 109-117	2.7	2
68	Influence of phosphorus availability on the community structure and physiology of cultured biofilms. *Journal of Environmental Sciences*, **2016**, 42, 19-31	6.4	10
67	Differentiation of microbial activity and functional diversity between various biocrust elements in a heterogeneous crustal community. *Catena*, **2016**, 147, 138-145	5.8	8
66	Differential responses of different phenotypes of Microcystis (Cyanophyceae) to UV-B radiation. *Phycologia*, **2015**, 54, 118-129	2.7	5

65	Photosynthesis regulates succession of toxic and nontoxic strains in blooms of Microcystis (Cyanobacteria). *Phycologia*, **2015**, 54, 640-648	2.7	7
64	Antioxidative responses in zebrafish liver exposed to sublethal doses Aphanizomenon flos-aquae DC-1 aphantoxins. *Ecotoxicology and Environmental Safety*, **2015**, 113, 425-32	7	13
63	Microbial secreted exopolysaccharides affect the hydrological behavior of induced biological soil crusts in desert sandy soils. *Soil Biology and Biochemistry*, **2014**, 68, 62-70	7.5	135
62	Enhanced resistance to UV-B radiation in Anabaena sp. PCC 7120 (Cyanophyceae) by repeated exposure. *Current Microbiology*, **2014**, 69, 1-9	2.4	3
61	Morphological alterations and acetylcholinesterase and monoamine oxidase inhibition in liver of zebrafish exposed to Aphanizomenon flos-aquae DC-1 aphantoxins. *Aquatic Toxicology*, **2014**, 157, 215-24	5.1	18
60	Revegetation in the water level fluctuation zone of a reservoir: An ideal measure to reduce the input of nutrients and sediment. *Ecological Engineering*, **2014**, 71, 574-577	3.9	25
59	Mitochondrial electron transport chain is involved in microcystin-RR induced tobacco BY-2 cells apoptosis. *Journal of Environmental Sciences*, **2014**, 26, 1930-5	6.4	3
58	Photosynthetic adaptation mechanism of Microcystis (Cyanophyceae) related to changes of colony size in a eutrophic lake. *Phycologia*, **2014**, 53, 552-560	2.7	3
57	Spatial heterogeneity of cyanobacteria-inoculated sand dunes significantly influences artificial biological soil crusts in the Hopq Desert (China). *Environmental Earth Sciences*, **2014**, 71, 245-253	2.9	32
56	Zebrafish neurotoxicity from aphantoxins--cyanobacterial paralytic shellfish poisons (PSPs) from Aphanizomenon flos-aquae DC-1. *Environmental Toxicology*, **2013**, 28, 239-54	4.2	21
55	Development of artificially induced biological soil crusts in fields and their effects on top soil. *Plant and Soil*, **2013**, 370, 115-124	4.2	59
54	The influence of soil and water physicochemical properties on the distribution of Nostoc sphaeroides (Cyanophyceae) in paddy fields and biochemical comparison with indoor cultured biomass. *Journal of Applied Phycology*, **2013**, 25, 1737-1745	3.2	3
53	Lipid peroxidation and antioxidant responses in zebrafish brain induced by Aphanizomenon flos-aquae DC-1 aphantoxins. *Aquatic Toxicology*, **2013**, 144-145, 250-6	5.1	23
52	An improved method for determining phytoplankton chlorophyll a concentration without filtration. *Hydrobiologia*, **2013**, 707, 81-95	2.4	10
51	Shifting species interaction in soil microbial community and its influence on ecosystem functions modulating. *Microbial Ecology*, **2013**, 65, 700-8	4.4	23
50	Seasonal succession of phytoplankton in response to the variation of environmental factors in the Gaolan River, Three Gorges Reservoir, China. *Chinese Journal of Oceanology and Limnology*, **2013**, 31, 737-749		9
49	Zebrafish locomotor capacity and brain acetylcholinesterase activity is altered by Aphanizomenon flos-aquae DC-1 aphantoxins. *Aquatic Toxicology*, **2013**, 138-139, 139-49	5.1	18
48	An integrated method for removal of harmful cyanobacterial blooms in eutrophic lakes. *Environmental Pollution*, **2012**, 160, 34-41	9.3	74

47	DIFFERENTIAL RESPONSES OF ANABAENA SP. PCC 7120 (CYANOPHYCEAE) CULTURED IN NITROGEN-DEFICIENT AND NITROGEN-ENRICHED MEDIA TO ULTRAVIOLET-B RADIATION(1). *Journal of Phycology*, **2012**, 48, 615-25	3	8
46	Competition between toxic Microcystis aeruginosa and nontoxic Microcystis wesenbergii with Anabaena PCC7120. *Journal of Applied Phycology*, **2012**, 24, 69-78	3.2	41
45	Effects of sand burial stress on the early developments of cyanobacterial crusts in the field. *European Journal of Soil Biology*, **2012**, 48, 48-55	2.9	33
44	Physiological variations of bloom-forming Microcystis (Cyanophyceae) related to colony size changes during blooms. *Phycologia*, **2012**, 51, 599-603	2.7	13
43	Conformational changes in photosynthetic pigment proteins on thylakoid membranes can lead to fast non-photochemical quenching in cyanobacteria. *Science China Life Sciences*, **2012**, 55, 726-34	8.5	6
42	The decline process and major pathways of Microcystis bloom in Taihu Lake, China. *Chinese Journal of Oceanology and Limnology*, **2012**, 30, 37-46		11
41	A niche model to predict Microcystis bloom decline in Chaohu Lake, China. *Chinese Journal of Oceanology and Limnology*, **2012**, 30, 587-594		8
40	Cyanobacteria-/cyanotoxin-contaminations and eutrophication status before Wuxi drinking water crisis in Lake Taihu, China. *Journal of Environmental Sciences*, **2011**, 23, 575-81	6.4	74
39	Nostoc sphaeroides Kützing, an excellent candidate producer for CELSS. *Advances in Space Research* , **2011**, 48, 1565-1571	2.4	12
38	Mechanism of photosynthetic response in Microcystis aeruginosa PCC7806 to low inorganic phosphorus. *Harmful Algae*, **2010**, 9, 613-619	5.3	62
37	Biosorption of copper by cyanobacterial bloom-derived biomass harvested from the eutrophic Lake Dianchi in China. *Current Microbiology*, **2010**, 61, 340-5	2.4	15
36	Antioxidative responses of Elodea nuttallii (Planch.) H. St. John to short-term iron exposure. *Plant Physiology and Biochemistry*, **2010**, 48, 873-8	5.4	34
35	Feasibility of cyanobacterial inoculation for biological soil crusts formation in desert area. *Soil Biology and Biochemistry*, **2009**, 41, 926-929	7.5	134
34	Influence of dew on biomass and photosystem II activity of cyanobacterial crusts in the Hopq Desert, northwest China. *Soil Biology and Biochemistry*, **2009**, 41, 2387-2393	7.5	63
33	Cytochemical changes in the developmental process of Nostoc sphaeroides (cyanobacterium). *Journal of Applied Phycology*, **2009**, 21, 119-125	3.2	12
32	Interactions between a cyanobacterial bloom (Microcystis) and the submerged aquatic plant Ceratophyllum oryzetorum Kom.. *Chinese Journal of Oceanology and Limnology*, **2009**, 27, 38-42		11
31	Mouse toxicity of Anabaena flos-aquae from Lake Dianchi, China. *Environmental Toxicology*, **2009**, 24, 10-8	4.2	11
30	Morphological and ultrastructural changes in tobacco BY-2 cells exposed to microcystin-RR. *Chemosphere*, **2009**, 76, 1006-12	8.4	10

29	Effects of gibberellin A(3) on growth and microcystin production in Microcystis aeruginosa (cyanophyta). *Journal of Plant Physiology*, **2008**, 165, 1691-7	3.6	32
28	Microcystin-RR induced apoptosis in tobacco BY-2 suspension cells is mediated by reactive oxygen species and mitochondrial permeability transition pore status. *Toxicology in Vitro*, **2008**, 22, 328-37	3.6	35
27	Microcystin-RR induces physiological stress and cell death in the cyanobacterium Aphanizomenon sp. DC01 isolated from Lake Dianchi, China. *Fundamental and Applied Limnology*, **2008**, 173, 111-120	1.9	6
26	Morphological characteristics and phylogenetic relationship of Anabaena species from Lakes Dianchi and Erhai, China. *Hydrobiologia*, **2008**, 614, 353-362	2.4	3
25	The role of glutathione metabolism in tolerance of tobacco BY-2 suspension cells to microcystin-RR. *Bulletin of Environmental Contamination and Toxicology*, **2008**, 80, 215-9	2.7	12
24	Growth and antioxidant system of Escherichia coli in response to microcystin-RR. *Bulletin of Environmental Contamination and Toxicology*, **2008**, 81, 427-31	2.7	10
23	The response of antioxidant systems in Nostoc sphaeroides against UV-B radiation and the protective effects of exogenous antioxidants. *Advances in Space Research*, **2007**, 39, 1034-1042	2.4	26
22	Relationships between the biomass of algal crusts in fields and their compressive strength. *Soil Biology and Biochemistry*, **2007**, 39, 567-572	7.5	69
21	Effects of iron on growth, pigment content, photosystem II efficiency, and siderophores production of Microcystis aeruginosa and Microcystis wesenbergii. *Current Microbiology*, **2007**, 55, 94-8	2.4	47
20	Effects of sand burial on biomass, chlorophyll fluorescence and extracellular polysaccharides of man-made cyanobacterial crusts under experimental conditions. *Science in China Series C: Life Sciences*, **2007**, 50, 530-4		14
19	Physiological and biochemical responses of Scytonema javanicum (cyanobacterium) to salt stress. *Journal of Arid Environments*, **2007**, 71, 312-320	2.5	59
18	Population growth and physiological characteristics of microalgae in a miniaturized bioreactor during space flight. *Acta Astronautica*, **2006**, 58, 264-269	2.9	46
17	Modulation and adaptation of carbonic anhydrase activity in Microcystis spp. under different environmental factors. *Acta Ecologica Sinica*, **2006**, 26, 2443-2448	2.7	3
16	Lysis of Aphanizomenon flos-aquae (Cyanobacterium) by a bacterium Bacillus cereus. *Biological Control*, **2006**, 39, 345-351	3.8	49
15	First report of aphantoxins in China--waterblooms of toxigenic Aphanizomenon flos-aquae in Lake Dianchi. *Ecotoxicology and Environmental Safety*, **2006**, 65, 84-92	7	71
14	Man-made desert algal crusts as affected by environmental factors in Inner Mongolia, China. *Journal of Arid Environments*, **2006**, 67, 521-527	2.5	89
13	Analysis of paralytic shellfish toxins in Aphanizomenon DC-1 from Lake Dianchi, China. *Environmental Toxicology*, **2006**, 21, 289-95	4.2	30
12	Effects of Salt Stress on Carbohydrate Metabolism in Desert Soil Alga Microcoleus vaginatus Gom.. *Journal of Integrative Plant Biology*, **2006**, 48, 914-919	8.3	49

11	Responses of antioxidant system in Arabidopsis thaliana suspension cells to the toxicity of microcystin-RR. *Toxicon*, **2005**, 46, 859-64	2.8	22
10	Microcystin-RR-induced accumulation of reactive oxygen species and alteration of antioxidant systems in tobacco BY-2 cells. *Toxicon*, **2005**, 46, 507-12	2.8	68
9	Improving photosynthesis of microalgae by changing the ratio of light-harvesting pigments. *Science Bulletin*, **2005**, 50, 1622		4
8	Photoregulated or Energy Dependent Process of Hormogonia Differentiation in Nostoc sphaeroides Kützing (Cyanobacterium). *Journal of Integrative Plant Biology*, **2005**, 47, 709-716	8.3	6
7	Comparison of the photosynthetic characteristics of two developmental stages inNostoc sphaeroides Kützing (cyanophyta). *Wuhan University Journal of Natural Sciences*, **2005**, 10, 931-935	0.4	1
6	Growth and antioxidant system of the cyanobacterium Synechococcus elongatus in response to microcystin-RR. *Hydrobiologia*, **2005**, 534, 23-29	2.4	52
5	Microcystin-RR uptake and its effects on the growth of submerged macrophyte Vallisneria natans (lour.) hara. *Environmental Toxicology*, **2005**, 20, 308-13	4.2	50
4	Real-time studies on microalgae under microgravity. *Acta Astronautica*, **2004**, 55, 131-7	2.9	43
3	Physiological and biochemical analyses of microcystin-RR toxicity to the cyanobacterium Synechococcus elongatus. *Environmental Toxicology*, **2004**, 19, 571-7	4.2	45
2	Salt tolerance of Microcoleus vaginatus Gom., a cyanobacterium isolated from desert algal crust, was enhanced by exogenous carbohydrates. *Journal of Arid Environments*, **2003**, 55, 645-656	2.5	52
1	Detection of anatoxin-a(s) in environmental samples of cyanobacteria by using a biosensor with engineered acetylcholinesterases. *Applied and Environmental Microbiology*, **2002**, 68, 4102-6	4.8	74