

Dunhai Li

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Microbial secreted exopolysaccharides affect the hydrological behavior of induced biological soil crusts in desert sandy soils. <i>Soil Biology and Biochemistry</i> , 2014 , 68, 62-70	7.5	135
99	Feasibility of cyanobacterial inoculation for biological soil crusts formation in desert area. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 926-929	7.5	134
98	Man-made desert algal crusts as affected by environmental factors in Inner Mongolia, China. <i>Journal of Arid Environments</i> , 2006 , 67, 521-527	2.5	89
97	An integrated method for removal of harmful cyanobacterial blooms in eutrophic lakes. <i>Environmental Pollution</i> , 2012 , 160, 34-41	9.3	74
96	Cyanobacteria-/cyanotoxin-contaminations and eutrophication status before Wuxi drinking water crisis in Lake Taihu, China. <i>Journal of Environmental Sciences</i> , 2011 , 23, 575-81	6.4	74
95	Detection of anatoxin-a(s) in environmental samples of cyanobacteria by using a biosensor with engineered acetylcholinesterases. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4102-6	4.8	74
94	First report of aphanotoxins in China--waterblooms of toxigenic <i>Aphanizomenon flos-aquae</i> in Lake Dianchi. <i>Ecotoxicology and Environmental Safety</i> , 2006 , 65, 84-92	7	71
93	Relationships between the biomass of algal crusts in fields and their compressive strength. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 567-572	7.5	69
92	Microcystin-RR-induced accumulation of reactive oxygen species and alteration of antioxidant systems in tobacco BY-2 cells. <i>Toxicon</i> , 2005 , 46, 507-12	2.8	68
91	Influence of dew on biomass and photosystem II activity of cyanobacterial crusts in the Hopq Desert, northwest China. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 2387-2393	7.5	63
90	Mechanism of photosynthetic response in <i>Microcystis aeruginosa</i> PCC7806 to low inorganic phosphorus. <i>Harmful Algae</i> , 2010 , 9, 613-619	5.3	62
89	Development of artificially induced biological soil crusts in fields and their effects on top soil. <i>Plant and Soil</i> , 2013 , 370, 115-124	4.2	59
88	Physiological and biochemical responses of <i>Scytonema javanicum</i> (cyanobacterium) to salt stress. <i>Journal of Arid Environments</i> , 2007 , 71, 312-320	2.5	59
87	Salt tolerance of <i>Microcoleus vaginatus</i> Gom., a cyanobacterium isolated from desert algal crust, was enhanced by exogenous carbohydrates. <i>Journal of Arid Environments</i> , 2003 , 55, 645-656	2.5	52
86	Growth and antioxidant system of the cyanobacterium <i>Synechococcus elongatus</i> in response to microcystin-RR. <i>Hydrobiologia</i> , 2005 , 534, 23-29	2.4	52
85	Microcystin-RR uptake and its effects on the growth of submerged macrophyte <i>Vallisneria natans</i> (Lour.) Harms. <i>Environmental Toxicology</i> , 2005 , 20, 308-13	4.2	50
84	Lysis of <i>Aphanizomenon flos-aquae</i> (Cyanobacterium) by a bacterium <i>Bacillus cereus</i> . <i>Biological Control</i> , 2006 , 39, 345-351	3.8	49

83	Effects of Salt Stress on Carbohydrate Metabolism in Desert Soil Alga <i>Microcoleus vaginatus</i> Gom.. <i>Journal of Integrative Plant Biology</i> , 2006 , 48, 914-919	8.3	49
82	Effects of iron on growth, pigment content, photosystem II efficiency, and siderophores production of <i>Microcystis aeruginosa</i> and <i>Microcystis wesenbergii</i> . <i>Current Microbiology</i> , 2007 , 55, 94-8	2.4	47
81	Population growth and physiological characteristics of microalgae in a miniaturized bioreactor during space flight. <i>Acta Astronautica</i> , 2006 , 58, 264-269	2.9	46
80	Physiological and biochemical analyses of microcystin-RR toxicity to the cyanobacterium <i>Synechococcus elongatus</i> . <i>Environmental Toxicology</i> , 2004 , 19, 571-7	4.2	45
79	Real-time studies on microalgae under microgravity. <i>Acta Astronautica</i> , 2004 , 55, 131-7	2.9	43
78	Competition between toxic <i>Microcystis aeruginosa</i> and nontoxic <i>Microcystis wesenbergii</i> with <i>Anabaena</i> PCC7120. <i>Journal of Applied Phycology</i> , 2012 , 24, 69-78	3.2	41
77	Microcystin-RR induced apoptosis in tobacco BY-2 suspension cells is mediated by reactive oxygen species and mitochondrial permeability transition pore status. <i>Toxicology in Vitro</i> , 2008 , 22, 328-37	3.6	35
76	Antioxidative responses of <i>Elodea nuttallii</i> (Planch.) H. St. John to short-term iron exposure. <i>Plant Physiology and Biochemistry</i> , 2010 , 48, 873-8	5.4	34
75	Effects of sand burial stress on the early developments of cyanobacterial crusts in the field. <i>European Journal of Soil Biology</i> , 2012 , 48, 48-55	2.9	33
74	Spatial heterogeneity of cyanobacteria-inoculated sand dunes significantly influences artificial biological soil crusts in the Hopq Desert (China). <i>Environmental Earth Sciences</i> , 2014 , 71, 245-253	2.9	32
73	Effects of gibberellin A(3) on growth and microcystin production in <i>Microcystis aeruginosa</i> (cyanophyta). <i>Journal of Plant Physiology</i> , 2008 , 165, 1691-7	3.6	32
72	Decomposition of cyanobacterial bloom contributes to the formation and distribution of iron-bound phosphorus (Fe-P): Insight for cycling mechanism of internal phosphorus loading. <i>Science of the Total Environment</i> , 2019 , 652, 696-708	10.2	32
71	Analysis of paralytic shellfish toxins in <i>Aphanizomenon</i> DC-1 from Lake Dianchi, China. <i>Environmental Toxicology</i> , 2006 , 21, 289-95	4.2	30
70	The response of antioxidant systems in <i>Nostoc sphaeroides</i> against UV-B radiation and the protective effects of exogenous antioxidants. <i>Advances in Space Research</i> , 2007 , 39, 1034-1042	2.4	26
69	Revegetation in the water level fluctuation zone of a reservoir: An ideal measure to reduce the input of nutrients and sediment. <i>Ecological Engineering</i> , 2014 , 71, 574-577	3.9	25
68	Harvesting Microalgae with Different Sources of Starch-Based Cationic Flocculants. <i>Applied Biochemistry and Biotechnology</i> , 2017 , 181, 112-124	3.2	25
67	Application of sodium alginate in induced biological soil crusts: enhancing the sand stabilization in the early stage. <i>Journal of Applied Phycology</i> , 2017 , 29, 1421-1428	3.2	24
66	Lipid peroxidation and antioxidant responses in zebrafish brain induced by <i>Aphanizomenon flos-aquae</i> DC-1 aphantoxins. <i>Aquatic Toxicology</i> , 2013 , 144-145, 250-6	5.1	23

65	Shifting species interaction in soil microbial community and its influence on ecosystem functions modulating. <i>Microbial Ecology</i> , 2013 , 65, 700-8	4.4	23
64	Responses of antioxidant system in <i>Arabidopsis thaliana</i> suspension cells to the toxicity of microcystin-RR. <i>Toxicon</i> , 2005 , 46, 859-64	2.8	22
63	Zebrafish neurotoxicity from aphanotoxins--cyanobacterial paralytic shellfish poisons (PSPs) from <i>Aphanizomenon flos-aquae</i> DC-1. <i>Environmental Toxicology</i> , 2013 , 28, 239-54	4.2	21
62	Morphological alterations and acetylcholinesterase and monoamine oxidase inhibition in liver of zebrafish exposed to <i>Aphanizomenon flos-aquae</i> DC-1 aphanotoxins. <i>Aquatic Toxicology</i> , 2014 , 157, 215-24 ¹	5.1	18
61	Zebrafish locomotor capacity and brain acetylcholinesterase activity is altered by <i>Aphanizomenon flos-aquae</i> DC-1 aphanotoxins. <i>Aquatic Toxicology</i> , 2013 , 138-139, 139-49	5.1	18
60	Microbial Succession and Nitrogen Cycling in Cultured Biofilms as Affected by the Inorganic Nitrogen Availability. <i>Microbial Ecology</i> , 2017 , 73, 1-15	4.4	17
59	Biosorption of copper by cyanobacterial bloom-derived biomass harvested from the eutrophic Lake Dianchi in China. <i>Current Microbiology</i> , 2010 , 61, 340-5	2.4	15
58	The role of non-rainfall water on physiological activation in desert biological soil crusts. <i>Journal of Hydrology</i> , 2018 , 556, 790-799	6	15
57	Effects of sand burial on biomass, chlorophyll fluorescence and extracellular polysaccharides of man-made cyanobacterial crusts under experimental conditions. <i>Science in China Series C: Life Sciences</i> , 2007 , 50, 530-4		14
56	Trends in Diatom Research Since 1991 Based on Topic Modeling. <i>Microorganisms</i> , 2019 , 7,	4.9	13
55	Antioxidative responses in zebrafish liver exposed to sublethal doses <i>Aphanizomenon flos-aquae</i> DC-1 aphanotoxins. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 113, 425-32	7	13
54	Physiological variations of bloom-forming <i>Microcystis</i> (Cyanophyceae) related to colony size changes during blooms. <i>Phycologia</i> , 2012 , 51, 599-603	2.7	13
53	<i>Nostoc sphaeroides</i> Kütz., an excellent candidate producer for CELSS. <i>Advances in Space Research</i> , 2011 , 48, 1565-1571	2.4	12
52	Cytochemical changes in the developmental process of <i>Nostoc sphaeroides</i> (cyanobacterium). <i>Journal of Applied Phycology</i> , 2009 , 21, 119-125	3.2	12
51	The role of glutathione metabolism in tolerance of tobacco BY-2 suspension cells to microcystin-RR. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008 , 80, 215-9	2.7	12
50	The relative role of spatial and environmental processes on seasonal variations of phytoplankton beta diversity along different anthropogenic disturbances of subtropical rivers in China. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 1422-1434	5.1	12
49	The decline process and major pathways of <i>Microcystis</i> bloom in Taihu Lake, China. <i>Chinese Journal of Oceanology and Limnology</i> , 2012 , 30, 37-46		11
48	Interactions between a cyanobacterial bloom (<i>Microcystis</i>) and the submerged aquatic plant <i>Ceratophyllum oryzetorum</i> Kom.. <i>Chinese Journal of Oceanology and Limnology</i> , 2009 , 27, 38-42		11

47	Mouse toxicity of <i>Anabaena flos-aquae</i> from Lake Dianchi, China. <i>Environmental Toxicology</i> , 2009 , 24, 10-8	4.2	11
46	Nitrogen-cycling microbial community functional potential and enzyme activities in cultured biofilms with response to inorganic nitrogen availability. <i>Journal of Environmental Sciences</i> , 2019 , 76, 89-99	6.4	11
45	Fenced cultivation of water hyacinth for cyanobacterial bloom control. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 17742-52	5.1	10
44	An improved method for determining phytoplankton chlorophyll a concentration without filtration. <i>Hydrobiologia</i> , 2013 , 707, 81-95	2.4	10
43	Morphological and ultrastructural changes in tobacco BY-2 cells exposed to microcystin-RR. <i>Chemosphere</i> , 2009 , 76, 1006-12	8.4	10
42	Growth and antioxidant system of <i>Escherichia coli</i> in response to microcystin-RR. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008 , 81, 427-31	2.7	10
41	Influence of phosphorus availability on the community structure and physiology of cultured biofilms. <i>Journal of Environmental Sciences</i> , 2016 , 42, 19-31	6.4	10
40	Seasonal succession of phytoplankton in response to the variation of environmental factors in the Gaolan River, Three Gorges Reservoir, China. <i>Chinese Journal of Oceanology and Limnology</i> , 2013 , 31, 737-749		9
39	Environmentally relevant concentrations of geosmin affect the development, oxidative stress, apoptosis and endocrine disruption of embryo-larval zebrafish. <i>Science of the Total Environment</i> , 2020 , 735, 139373	10.2	8
38	DIFFERENTIAL RESPONSES OF ANABAENA SP. PCC 7120 (CYANOPHYCEAE) CULTURED IN NITROGEN-DEFICIENT AND NITROGEN-ENRICHED MEDIA TO ULTRAVIOLET-B RADIATION(1). <i>Journal of Phycology</i> , 2012 , 48, 615-25	3	8
37	A niche model to predict <i>Microcystis</i> bloom decline in Chaohu Lake, China. <i>Chinese Journal of Oceanology and Limnology</i> , 2012 , 30, 587-594		8
36	Differentiation of microbial activity and functional diversity between various biocrust elements in a heterogeneous crustal community. <i>Catena</i> , 2016 , 147, 138-145	5.8	8
35	Temperature and silicate are significant driving factors for the seasonal shift of dominant diatoms in a drinking water reservoir. <i>Journal of Oceanology and Limnology</i> , 2019 , 37, 568-579	1.5	8
34	Nitrogen limitation significantly reduces the competitive advantage of toxic <i>Microcystis</i> at high light conditions. <i>Chemosphere</i> , 2019 , 237, 124508	8.4	7
33	Photosynthesis regulates succession of toxic and nontoxic strains in blooms of <i>Microcystis</i> (Cyanobacteria). <i>Phycologia</i> , 2015 , 54, 640-648	2.7	7
32	Operation of an enclosed aquatic ecosystem in the Shenzhou-8 mission. <i>Acta Astronautica</i> , 2017 , 134, 17-22	2.9	6
31	Conformational changes in photosynthetic pigment proteins on thylakoid membranes can lead to fast non-photochemical quenching in cyanobacteria. <i>Science China Life Sciences</i> , 2012 , 55, 726-34	8.5	6
30	Microcystin-RR induces physiological stress and cell death in the cyanobacterium <i>Aphanizomenon</i> sp. DC01 isolated from Lake Dianchi, China. <i>Fundamental and Applied Limnology</i> , 2008 , 173, 111-120	1.9	6

29	Photoregulated or Energy Dependent Process of Hormogonia Differentiation in <i>Nostoc sphaeroides</i> Kütz (Cyanobacterium). <i>Journal of Integrative Plant Biology</i> , 2005 , 47, 709-716	8.3	6
28	Replacing nitrogen fertilizer with nitrogen-fixing cyanobacteria reduced nitrogen leaching in red soil paddy fields. <i>Agriculture, Ecosystems and Environment</i> , 2021 , 312, 107320	5.7	6
27	The trophic state of lake water regulates spatial-temporal variations of bloom-forming <i>Microcystis</i> . <i>Chinese Journal of Oceanology and Limnology</i> , 2017 , 35, 415-422		5
26	Sediment phosphorus release in response to flood event across different land covers in a restored wetland. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 9113-9122	5.1	5
25	Differential responses of different phenotypes of <i>Microcystis</i> (Cyanophyceae) to UV-B radiation. <i>Phycologia</i> , 2015 , 54, 118-129	2.7	5
24	Photosynthetic characteristics and inferred changes in thylakoid membrane fluidity determine bloom succession between <i>Anabaena</i> and <i>Microcystis</i> in eutrophic lakes. <i>Journal of Applied Phycology</i> , 2016 , 28, 2353-2365	3.2	5
23	Improving photosynthesis of microalgae by changing the ratio of light-harvesting pigments. <i>Science Bulletin</i> , 2005 , 50, 1622		4
22	The Species-Specific Responses of Freshwater Diatoms to Elevated Temperatures Are Affected by Interspecific Interactions. <i>Microorganisms</i> , 2018 , 6,	4.9	4
21	Physiological and transcriptomic changes of zebrafish (<i>Danio rerio</i>) embryos-larvae in response to 2-MIB exposure. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126142	12.8	4
20	Spatiotemporal distribution of microplastics in surface water, biofilms, and sediments in the world's largest drinking water diversion project. <i>Science of the Total Environment</i> , 2021 , 789, 148001	10.2	4
19	Enhanced resistance to UV-B radiation in <i>Anabaena</i> sp. PCC 7120 (Cyanophyceae) by repeated exposure. <i>Current Microbiology</i> , 2014 , 69, 1-9	2.4	3
18	Mitochondrial electron transport chain is involved in microcystin-RR induced tobacco BY-2 cells apoptosis. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1930-5	6.4	3
17	The influence of soil and water physicochemical properties on the distribution of <i>Nostoc sphaeroides</i> (Cyanophyceae) in paddy fields and biochemical comparison with indoor cultured biomass. <i>Journal of Applied Phycology</i> , 2013 , 25, 1737-1745	3.2	3
16	Photosynthetic adaptation mechanism of <i>Microcystis</i> (Cyanophyceae) related to changes of colony size in a eutrophic lake. <i>Phycologia</i> , 2014 , 53, 552-560	2.7	3
15	Morphological characteristics and phylogenetic relationship of <i>Anabaena</i> species from Lakes Dianchi and Erhai, China. <i>Hydrobiologia</i> , 2008 , 614, 353-362	2.4	3
14	Modulation and adaptation of carbonic anhydrase activity in <i>Microcystis</i> spp. under different environmental factors. <i>Acta Ecologica Sinica</i> , 2006 , 26, 2443-2448	2.7	3
13	Competition between toxic and nontoxic <i>Microcystis</i> (Cyanophyceae) under different light and temperature conditions. <i>Science China Life Sciences</i> , 2017 , 60, 674-676	8.5	2
12	Study on the safe disposal and resource utilization of cyanobacterial bloom biomass in Dianchi Lake, China. <i>Journal of Applied Phycology</i> , 2020 , 32, 1201-1213	3.2	2

11	Effect of substituting nitrogen fertilizer with nitrogen-fixing cyanobacteria on yield in a double-rice cropping system in southern China. <i>Journal of Applied Phycology</i> , 2021 , 33, 2221-2232	3.2	2
10	The effect of gradient cooling on bloom decline in <i>Microcystis</i> (Cyanophyceae, Chroococcales). <i>Phycologia</i> , 2016 , 55, 109-117	2.7	2
9	Physiological changes of submerged macrophytes in response to a floating filamentous green algae bloom in clear-water conditions. <i>Journal of Oceanology and Limnology</i> , 2018 , 36, 1604-1614	1.5	2
8	Different Assembly Patterns of Planktonic and Sedimentary Bacterial Community in a Few Connected Eutrophic Lakes. <i>Water (Switzerland)</i> , 2022 , 14, 723	3	2
7	Comparison of the photosynthetic characteristics of two developmental stages in <i>Nostoc sphaeroides</i> Kütz (cyanophyta). <i>Wuhan University Journal of Natural Sciences</i> , 2005 , 10, 931-935	0.4	1
6	Nitrogen-fixing cyanobacteria have the potential to improve nitrogen use efficiency through the reduction of ammonia volatilization in red soil paddy fields. <i>Soil and Tillage Research</i> , 2022 , 217, 105274	6.5	1
5	Environmental factors associated with the filamentous green algae <i>Cladophora</i> blooms: A mesocosm experiment in a shallow eutrophic lake.. <i>Journal of Environmental Management</i> , 2022 , 313, 114977	7.9	1
4	Bonone causes endocrine disruption, hyperpigmentation and hypoactivity in zebrafish early life stages.. <i>Science of the Total Environment</i> , 2022 , 155433	10.2	1
3	Insights into the spatiotemporal differences in tailings seepage pollution by assessing the diversity and metabolic functions of the soil microbial community.. <i>Environmental Pollution</i> , 2022 , 306, 119408	9.3	0
2	The influence of desiccation on the recovery process of nitrogenase activity in restored biological soil crusts. <i>Science China Life Sciences</i> , 2017 , 60, 1283-1285	8.5	
1	Regulating Nutrients and Phytoplankton by Extending the Habitats of Periphyton in a Deep River-Type Reservoir. <i>Clean - Soil, Air, Water</i> , 2018 , 46, 1800034	1.6	