Gaohong Wang

List of Publications by Year
in descending order

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38	1,131	394421	395702
papers	citations	19	33
		h-index	g-index

38	38	38	1418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Toxicological effects of nanometer titanium dioxide (nano-TiO2) on Chlamydomonas reinhardtii. Ecotoxicology and Environmental Safety, 2012, 84, 155-162.	6.0	145
2	Macromolecular and chemical features of the excreted extracellular polysaccharides in induced biological soil crusts of different ages. Soil Biology and Biochemistry, 2014, 78, 1-9.	8.8	89
3	Microcystin-RR-induced accumulation of reactive oxygen species and alteration of antioxidant systems in tobacco BY-2 cells. Toxicon, 2005, 46, 507-512.	1.6	72
4	Population growth and physiological characteristics of microalgae in a miniaturized bioreactor during space flight. Acta Astronautica, 2006, 58, 264-269.	3.2	59
5	The involvement of the antioxidant system in protection of desert cyanobacterium Nostoc sp. against UV-B radiation and the effects of exogenous antioxidants. Ecotoxicology and Environmental Safety, 2008, 69, 150-157.	6.0	59
6	Control of Lunar and Martian Dustâ€"Experimental Insights from Artificial and Natural Cyanobacterial and Algal Crusts in the Desert of Inner Mongolia, China. Astrobiology, 2008, 8, 75-86.	3.0	51
7	A genomics approach reveals the global genetic polymorphism, structure, and functional diversity of ten accessions of the marine model diatom Phaeodactylum tricornutum. ISME Journal, 2020, 14, 347-363.	9.8	50
8	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.	2.7	40
9	Damage to DNA caused by UV-B radiation in the desert cyanobacterium Scytonema javanicum and the effects of exogenous chemicals on the process. Chemosphere, 2012, 88, 413-417.	8.2	38
10	Rapid construction and screening of artificial micro<scp>RNA</scp> systems in <scp>C</scp>hlamydomonas reinhardtii. Plant Journal, 2014, 79, 1052-1064.	5.7	38
11	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.	2.6	35
12	Simulated microgravity alters growth and microcystin production in Microcystis aeruginosa (cyanophyta). Toxicon, 2010, 56, 1-7.	1.6	34
13	The combined effects of UV-B radiation and herbicides on photosynthesis, antioxidant enzymes and DNA damage in two bloom-forming cyanobacteria. Ecotoxicology and Environmental Safety, 2012, 80, 224-230.	6.0	34
14	Biological soil crust succession in deserts through a 59-year-long case study in China: How induced biological soil crust strategy accelerates desertification reversal from decades to years. Soil Biology and Biochemistry, 2020, 141, 107665.	8.8	34
15	The inhibition effect of recycled Scenedesmus acuminatus culture media: Influence of growth phase, inhibitor identification and removal. Algal Research, 2019, 42, 101612.	4.6	30
16	Effects of UV-B radiation on photosynthesis activity of Wolffia arrhiza as probed by chlorophyll fluorescence transients. Advances in Space Research, 2010, 45, 839-845.	2.6	28
17	Raman Spectroscopic Analysis of a Desert Cyanobacterium Nostoc sp. in Response to UVB Radiation. Astrobiology, 2010, 10, 783-788.	3.0	27
18	Zebrafish neurotoxicity from aphantoxinsâ€"cyanobacterial paralytic shellfish poisons (PSPs) from Aphanizomenon flosâ€aquae DCâ€1. Environmental Toxicology, 2013, 28, 239-254.	4.0	24

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19	MicroRNAs modulate adaption to multiple abiotic stresses in Chlamydomonas reinhardtii. Scientific Reports, 2016, 6, 38228.	3.3	23
20	Identification of auto-inhibitors in the reused culture media of the Chlorophyta Scenedesmus acuminatus. Algal Research, 2019, 44, 101665.	4.6	22
21	Reproductive and Locomotory Capacities of Caenorhabditis elegans Were Not Affected by Simulated Variable Gravities and Spaceflight During the Shenzhou-8 Mission. Astrobiology, 2013, 13, 617-625.	3.0	21
22	The response of carbohydrate metabolism to the fluctuation of relative humidity (RH) in the desert soil cyanobacterium Phormidium tenue. European Journal of Soil Biology, 2012, 48, 11-16.	3.2	19
23	Cell damage caused by ultraviolet B radiation in the desert cyanobacterium Phormidium tenue and its recovery process. Ecotoxicology and Environmental Safety, 2017, 144, 315-320.	6.0	18
24	Response of photosynthetic systems to salinity stress in the desert cyanobacterium Scytonema javanicum. Advances in Space Research, 2014, 53, 30-36.	2.6	17
25	A simple closed aquatic ecosystem (CAES) for space. Advances in Space Research, 2008, 41, 684-690.	2.6	15
26	Effects of Wall Vessel Rotation on the Growth of Larval Zebrafish Inner Ear Otoliths. Microgravity Science and Technology, 2011, 23, 13-18.	1.4	15
27	Nostoc sphaeroides KÃ¼tzing, an excellent candidate producer for CELSS. Advances in Space Research, 2011, 48, 1565-1571.	2.6	14
28	Effects of Simulated Microgravity on Otolith Growth of Larval Zebrafish using a Rotating-Wall Vessel: Appropriate Rotation Speed and Fish Developmental Stage. Microgravity Science and Technology, 2017, 29, 1-8.	1.4	13
29	Exposure of cyanobacterium Nostoc sp. to the Mars-like stratosphere environment. Journal of Photochemistry and Photobiology B: Biology, 2021, 224, 112307.	3.8	13
30	Survival of desert algae Chlorella exposed to Mars-like near space environment. Life Sciences in Space Research, 2021, 29, 22-29.	2.3	10
31	Operation of an enclosed aquatic ecosystem in the Shenzhou-8 mission. Acta Astronautica, 2017, 134, 17-22.	3.2	8
32	Possible nutrient limiting factor in long term operation of closed aquatic ecosystem. Advances in Space Research, 2012, 49, 841-849.	2.6	7
33	Involvement of nitric oxide in the mechanism of biochemical alterations induced by simulated microgravity in Microcystis aeruginosa. Advances in Space Research, 2012, 49, 850-858.	2.6	6
34	Cre-miR914-regulated RPL18 is involved with UV-B adaptation in Chlamydomonas reinhardtii. Journal of Plant Physiology, 2019, 232, 151-159.	3.5	6
35	Overview and perspectives of Astrobiology. Chinese Science Bulletin, 2020, 65, 380-391.	0.7	5
36	Improving photosynthesis of microalgae by changing the ratio of light-harvesting pigments. Science Bulletin, 2005, 50, 1622.	1.7	4

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37	Enhancement of DNA damage repair potential in germ cells of Caenorhabditis elegans by a volatile signal from their irradiated partners. DNA Repair, 2020, 86, 102755.	2.8	4
38	Negative Modulation of Bystander DNA Repair Potential by X-Ray Targeted Tissue Volume in Arabidopsis thaliana. Radiation Research, 2019, 191, 556.	1.5	4