Zhangli Hu

List of Publications by Year
in descending order

106 papers	2,973 citations	201674 27 h-index	197818 49 g-index
107 all docs	107 docs citations	107 times ranked	3480 citing authors

#	Article	IF	Citations
1	Plant cell-surface GIPC sphingolipids sense salt to trigger Ca2+ influx. Nature, 2019, 572, 341-346.	27.8	341
2	Hydrogen peroxide sensor HPCA1 is an LRR receptor kinase in Arabidopsis. Nature, 2020, 578, 577-581.	27.8	334
3	Expression of fatty acid synthesis genes and fatty acid accumulation in haematococcus pluvialis under different stressors. Biotechnology for Biofuels, 2012, 5, 18.	6.2	167
4	Recent advancement and strategy on bio-hydrogen production from photosynthetic microalgae. Bioresource Technology, 2019, 292, 121972.	9.6	127
5	Growth and lipid accumulation by different nutrients in the microalga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2018, 11, 40.	6.2	107
6	Current advances on fermentative biobutanol production using third generation feedstock. Biotechnology Advances, 2017, 35, 1049-1059.	11.7	98
7	Study on interaction between curcumin and pepsin by spectroscopic and docking methods. International Journal of Biological Macromolecules, 2015, 79, 201-208.	7.5	79
8	Immune Activation of RAW264.7 Macrophages by Low Molecular Weight Fucoidan Extracted from New Zealand Undaria pinnatifida. Journal of Agricultural and Food Chemistry, 2018, 66, 10721-10728.	5.2	60
9	Effects of cadmium toxicity on diploid wheat (Triticum urartu) and the molecular mechanism of the cadmium response. Journal of Hazardous Materials, 2019, 374, 1-10.	12.4	60
10	Methyltransferase-like 3 Modulates Severe Acute Respiratory Syndrome Coronavirus-2 RNA N6-Methyladenosine Modification and Replication. MBio, 2021, 12, e0106721.	4.1	53
11	Genome and Transcriptome Sequencing of the Astaxanthin-Producing Green Microalga,Haematococcus pluvialis. Genome Biology and Evolution, 2019, 11, 166-173.	2.5	52
12	Effects of selenite on green microalga Haematococcus pluvialis : Bioaccumulation of selenium and enhancement of astaxanthin production. Aquatic Toxicology, 2017, 183, 21-27.	4.0	49
13	Artificial miRNA inhibition of phosphoenolpyruvate carboxylase increases fatty acid production in a green microalga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2017, 10, 91.	6.2	48
14	Characterization of long-chain acyl-CoA synthetases which stimulate secretion of fatty acids in green algae Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2016, 9, 184.	6.2	44
15	Genome-wide long non-coding RNA screening, identification and characterization in a model microorganism Chlamydomonas reinhardtii. Scientific Reports, 2016, 6, 34109.	3.3	43
16	Improved Cd, Zn and Mn tolerance and reduced Cd accumulation in grains with wheat-based cell number regulator TaCNR2. Scientific Reports, 2019, 9, 870.	3.3	42
17	A study on the nitrogen removal efficacy of bacterium Acinetobacter tandoii MZ-5 from a contaminated river of Shenzhen, Guangdong Province, China. Bioresource Technology, 2020, 315, 123888.	9.6	42
18	Antioxidant responses of microalgal species to pyrene. Journal of Applied Phycology, 2006, 18, 67-78.	2.8	40

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19	Assessment of pollutions and identification of sources of heavy metals in sediments from west coast of Shenzhen, China. Environmental Science and Pollution Research, 2018, 25, 3647-3656.	5.3	40
20	A review on the progress, challenges and prospects in commercializing microalgal fucoxanthin. Biotechnology Advances, 2021, 53, 107865.	11.7	39
21	Comparative studies on DNA-binding and in vitro antitumor activity of enantiomeric ruthenium(II) complexes. Journal of Inorganic Biochemistry, 2018, 180, 54-60.	3.5	37
22	New Biofortification Tool: Wheat TaCNR5 Enhances Zinc and Manganese Tolerance and Increases Zinc and Manganese Accumulation in Rice Grains. Journal of Agricultural and Food Chemistry, 2019, 67, 9877-9884.	5.2	37
23	Fatty acid and metabolomic profiling approaches differentiate heterotrophic and mixotrophic culture conditions in a microalgal food supplement 'Euglena'. BMC Biotechnology, 2016, 16, 49.	3.3	34
24	Wheat Cell Number Regulator CNR10 Enhances the Tolerance, Translocation, and Accumulation of Heavy Metals in Plants. Environmental Science & Technology, 2019, 53, 860-867.	10.0	34
25	Effect of overexpression of LPAAT and GPD1 on lipid synthesis and composition in green microalga Chlamydomonas reinhardtii. Journal of Applied Phycology, 2018, 30, 1711-1719.	2.8	33
26	The inhibitory activity of alginate against allergic reactions in an ovalbumin-induced mouse model. Food and Function, 2020, 11, 2704-2713.	4.6	29
27	Optogenetic regulation of artificial microRNA improves H2 production in green alga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2017, 10, 257.	6.2	28
28	Unsaturated mannuronate oligosaccharide ameliorates Î²â€amyloid pathology through autophagy in Alzheimerâ€™s disease cell models. Carbohydrate Polymers, 2021, 251, 117124.	10.2	27
29	Binding mechanism of lipase to Ligupurpuroside B extracted from Ku-Ding tea as studied by multi-spectroscopic and molecular docking methods. International Journal of Biological Macromolecules, 2018, 120, 1345-1352.	7.5	26
30	Mechanisms of microRNA-mediated gene regulation in unicellular model alga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2018, 11, 244.	6.2	26
31	Continuous production of algicidal compounds against Akashiwo sanguinea via a Vibrio sp. co-culture. Bioresource Technology, 2020, 295, 122246.	9.6	26
32	Bioaugmented constructed wetlands for efficient saline wastewater treatment with multiple denitrification pathways. Bioresource Technology, 2021, 335, 125236.	9.6	26
33	Efficient expression of green fluorescent protein (GFP) mediated by a chimeric promoter in Chlamydomonas reinhardtii. Chinese Journal of Oceanology and Limnology, 2008, 26, 242-247.	0.7	23
34	Understanding the functions of endogenous DOF transcript factor in Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2019, 12, 67.	6.2	23
35	Comparative Transcriptomic Analysis Uncovers Genes Responsible for the DHA Enhancement in the Mutant Aurantiochytrium sp.. Microorganisms, 2020, 8, 529.	3.6	23
36	Water reuse and growth inhibition mechanisms for cultivation of microalga Euglena gracilis. Biotechnology for Biofuels, 2021, 14, 132.	6.2	23

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37	Mechanism and Nature of Inhibition of Trypsin by Ligupurpuroside A, a Ku-Ding Tea Extract, Studied by Spectroscopic and Docking Methods. Food Biophysics, 2017, 12, 78-87.	3.0	22
38	Transcriptome-based analysis of the effects of salicylic acid and high light on lipid and astaxanthin accumulation in Haematococcus pluvialis. Biotechnology for Biofuels, 2021, 14, 82.	6.2	22
39	Recent Advanced Metabolic and Genetic Engineering of Phenylpropanoid Biosynthetic Pathways. International Journal of Molecular Sciences, 2021, 22, 9544.	4.1	22
40	Overexpression Of hsa-miR-664a-3p Is Associated With Cigarette Smoke-Induced Chronic Obstructive Pulmonary Disease Via Targeting FHL1 . International Journal of COPD, 2019, Volume 14, 2319-2329.	2.3	21
41	Pre-concentration of microalga Euglena gracilis by alkalescent pH treatment and flocculation mechanism of Ca3(PO4)2, Mg3(PO4)2, and derivatives. Biotechnology for Biofuels, 2020, 13, 98.	6.2	21
42	Improved photobio-H2 production regulated by artificial miRNA targeting psbA in green microalga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2018, 11, 36.	6.2	20
43	Specific Degradation of Endogenous Tau Protein and Inhibition of Tau Fibrillation by Tanshinone IIA through the Ubiquitinâ€“Proteasome Pathway. Journal of Agricultural and Food Chemistry, 2020, 68, 2054-2062.	5.2	20
44	Metabolic Responses of a Model Green Microalga Euglena gracilis to Different Environmental Stresses. Frontiers in Bioengineering and Biotechnology, 2021, 9, 662655.	4.1	20
45	Transgenerational Epigenetic Inheritance Under Environmental Stress by Genome-Wide DNA Methylation Profiling in Cyanobacterium. Frontiers in Microbiology, 2018, 9, 1479.	3.5	19
46	Successful expression of heterologous egfp gene in the mitochondria of a photosynthetic eukaryote Chlamydomonas reinhardtii. Mitochondrion, 2011, 11, 716-721.	3.4	18
47	Stable Expression of Antibiotic-Resistant Gene ble from Streptoalloteichus hindustanus in the Mitochondria of Chlamydomonas reinhardtii. PLoS ONE, 2012, 7, e35542.	2.5	18
48	Conformation change of trypsin induced by acteoside as studied using multiple spectroscopic and molecular docking methods. International Journal of Food Properties, 2018, 21, 301-312.	3.0	17
49	An endogenous microRNA (miRNA1166.1) can regulate photobio-H2 production in eukaryotic green alga Chlamydomonas reinhardtii. Biotechnology for Biofuels, 2018, 11, 126.	6.2	17
50	Epibiotic bacterial community composition in red-tide dinoflagellate Akashiwo sanguinea culture under various growth conditions. FEMS Microbiology Ecology, 2019, 95, .	2.7	16
51	Poly(<scp>ADP</scp>â€ribose) glycohydrolase silencingâ€mediated <scp>H2B</scp> expression inhibits benzo(a)pyreneâ€induced carcinogenesis. Environmental Toxicology, 2021, 36, 291-297.	4.0	16
52	Biochar immobilized bacteria enhances nitrogen removal capability of tidal flow constructed wetlands. Science of the Total Environment, 2022, 836, 155728.	8.0	16
53	Study on the mechanism of the interaction between acteoside and pepsin using spectroscopic techniques. Luminescence, 2015, 30, 859-866.	2.9	14
54	The Critical Role of Small RNAs in Regulating Plant Innate Immunity. Biomolecules, 2021, 11, 184.	4.0	14

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55	Discovery of Geranylgeranyl Pyrophosphate Synthase (GGPPS) Paralogs from Haematococcus pluvialis Based on Iso-Seq Analysis and Their Function on Astaxanthin Biosynthesis. Marine Drugs, 2019, 17, 696.	4.6	12
56	Isolation and Characterization of New Anti-Inflammatory and Antioxidant Components from Deep Marine-Derived Fungus Myrothecium sp. Bzo-l062. Marine Drugs, 2020, 18, 597.	4.6	12
57	Morphological, physiological and molecular assessment of cotton for drought tolerance under field conditions. Saudi Journal of Biological Sciences, 2022, 29, 444-452.	3.8	12
58	Novel Harziane Diterpenes from Deep-Sea Sediment Fungus Trichoderma sp. SCSIOW21 and Their Potential Anti-Inflammatory Effects. Marine Drugs, 2021, 19, 689.	4.6	12
59	A Novel Organic Electrochemical Transistor-Based Platform for Monitoring the Senescent Green Vegetative Phase of Haematococcus pluvialis Cells. Sensors, 2017, 17, 1997.	3.8	11
60	Multi-spectroscopic studies on the interaction between traditional Chinese herb, helicid with pepsin. Molecular Biology Reports, 2018, 45, 1637-1646.	2.3	11
61	Inhibition of glucose assimilation in Auxenochlorella protothecoides by light. Biotechnology for Biofuels, 2020, 13, 146.	6.2	11
62	Characterization and Neuroprotection Potential of Seleno-Polymannuronate. Frontiers in Pharmacology, 2020, 11, 21.	3.5	11
63	Identification and characterization of a novel defensin from Asian green mussel Perna viridis. Fish and Shellfish Immunology, 2018, 74, 242-249.	3.6	10
64	Genipin Attenuates Tau Phosphorylation and AÎ² Levels in Cellular Models of Alzheimerâ€™s Disease. Molecular Neurobiology, 2021, 58, 4134-4144.	4.0	10
65	Optimization of preparation conditions and in vitro sustained-release evaluation of a novel nanoemulsion encapsulating unsaturated guluronate oligosaccharide. Carbohydrate Polymers, 2021, 264, 118047.	10.2	10
66	Heterotrophic bacteria of the Dapeng Bay in the South China Sea: community structure, abundance, and the relationships of culturablity with environmental factors. Acta Oceanologica Sinica, 2010, 29, 88-97.	1.0	9
67	Contamination evaluation and source identification of heavy metals in sediments near outlet of Shekou industrial district of Shenzhen City. Environmental Monitoring and Assessment, 2020, 192, 772.	2.7	9
68	Comparison of microbial community structure and function in sediment between natural regenerated and original mangrove forests in a National Nature Mangrove Reserve, South China. Marine Pollution Bulletin, 2021, 163, 111955.	5.0	9
69	Signs of biofilm formation in the genome of Labrenzia sp. PO1. Saudi Journal of Biological Sciences, 2021, 28, 1900-1912.	3.8	9
70	Estimating Cyanobacteria Community Dynamics and its Relationship with Environmental Factors. International Journal of Environmental Research and Public Health, 2014, 11, 1141-1160.	2.6	8
71	Comparative Analysis of Complete Chloroplast Genome Sequences of Wild and Cultivated Bougainvillea (Nyctaginaceae). Plants, 2020, 9, 1671.	3.5	8
72	Discovery and Characterization of a New Crustin Antimicrobial Peptide from Amphibalanus amphitrite. Pharmaceutics, 2022, 14, 413.	4.5	8

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73	Comparative Studies on DNA-Binding Mechanisms between Enantiomers of a Polypyridyl Ruthenium(II) Complex. Journal of Physical Chemistry B, 2022, 126, 4787-4798.	2.6	8
74	De Novo Transcriptome Analysis of Polyunsaturated Fatty Acid Metabolism in Marine Protist Thraustochytriidae sp. PKU#Mn16. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 35-48.	1.9	7
75	Microcosm Study on Allelopathic Effects of Leaf Litter Leachates and Purified Condensed Tannins from Kandelia obovata on Germination and Growth of Aegiceras corniculatum. Forests, 2021, 12, 1000.	2.1	7
76	Utilization of nitrogen self-doped biocarbon derived from soybean nodule in electrochemically sensing ascorbic acid and dopamine. Journal of Porous Materials, 2021, 28, 529-541.	2.6	7
77	Comparison of two sampling methods when studying periphyton colonization in Lam Tsuen River, Hong Kong, China. Chinese Journal of Oceanology and Limnology, 2011, 29, 141-149.	0.7	6
78	Heterologous expression of TuCAX1a and TuCAX1b enhances Ca2+ and Zn2+ translocation in Arabidopsis. Plant Cell Reports, 2019, 38, 597-607.	5.6	5
79	Trypsin inhibition by Ligupurpuroside B as studied using spectroscopic, CD, and molecular docking techniques. Journal of Biomolecular Structure and Dynamics, 2019, 37, 3379-3387.	3.5	5
80	Dissection of binding of trypsin to its natural inhibitor Gensenoside-Rg1 using spectroscopic methods and molecular modeling. Journal of Biomolecular Structure and Dynamics, 2019, 37, 4070-4079.	3.5	5
81	Effect of Nitrogen Sources on Omega-3 Polyunsaturated Fatty Acid Biosynthesis and Gene Expression in Thraustochytriidae sp.. Marine Drugs, 2020, 18, 612.	4.6	5
82	Carbon isotope ratio of leaf litter correlates with litter production in a mangrove ecosystem in South China. Marine Pollution Bulletin, 2020, 157, 111224.	5.0	5
83	The Functionally Characterization of Putative Genes Involved in the Formation of Mannose in the Aplanospore Cell Wall of Haematococcus pluvialis (Volvocales, Chlorophyta). Metabolites, 2021, 11, 725.	2.9	5
84	A Comprehensive Characterization of Monoallelic Expression During Hematopoiesis and Leukemogenesis via Single-Cell RNA-Sequencing. Frontiers in Cell and Developmental Biology, 2021, 9, 702897.	3.7	5
85	Haematococcus pluvialis Accumulated Lipid and Astaxanthin in a Moderate and Sustainable Way by the Self-Protection Mechanism of Salicylic Acid Under Sodium Acetate Stress. Frontiers in Plant Science, 2021, 12, 763742.	3.6	5
86	Molecular cloning and expression analysis of mytilin-like antimicrobial peptides from Asian green mussel Perna viridis. Fish and Shellfish Immunology, 2022, 121, 239-244.	3.6	5
87	Establishment and optimization of PEG-mediated protoplast transformation in the microalgaÂHaematococcus pluvialis. Journal of Applied Phycology, 2022, 34, 1595-1605.	2.8	5
88	Microcosm study on cold adaptation and recovery of an exotic mangrove plant, Laguncularia racemosa in China. Marine Environmental Research, 2022, 176, 105611.	2.5	5
89	Euglena gracilis and Its Aqueous Extract Constructed With Chitosan-Hyaluronic Acid Hydrogel Facilitate Cutaneous Wound Healing in Mice Without Inducing Excessive Inflammatory Response. Frontiers in Bioengineering and Biotechnology, 2021, 9, 713840.	4.1	5
90	Phylogeny and Taxonomic Synopsis of the Genus Bougainvillea (Nyctaginaceae). Plants, 2022, 11, 1700.	3.5	5

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91	Flagella-Associated WDR-Containing Protein CrFAP89 Regulates Growth and Lipid Accumulation in Chlamydomonas reinhardtii. Frontiers in Plant Science, 2018, 9, 691.	3.6	4
92	Coexisting overexpression of STOML1 and STOML2 proteins may be associated with pathology of oral squamous cell carcinoma. Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology, 2020, 129, 591-599.e3.	0.4	4
93	Distinct roles of alternative oxidase pathway during the greening process of etiolated algae. Science China Life Sciences, 2021, 64, 816-827.	4.9	4
94	The Roles of Cullins E3 Ubiquitin Ligases in the Lipid Biosynthesis of the Green Microalgae Chlamydomonas reinhardtii. International Journal of Molecular Sciences, 2021, 22, 4695.	4.1	4
95	Toxicological Effects of Microplastics and Sulfadiazine on the Microalgae Chlamydomonas reinhardtii. Frontiers in Microbiology, 2022, 13, 865768.	3.5	4
96	Refractive index and pulse broadening characterization using oil immersion and its influence on threeâ€photon microscopy excited at the 1700â€nm window. Journal of Biophotonics, 2019, 12, e201800263.	2.3	3
97	Temporal variability of free-living microbial culturability and community composition after an Akashiwo sanguinea bloom in Shenzhen, China. Ecotoxicology, 2021, 30, 975-985.	2.4	3
98	Biosynthesis and Secretion of Human Tissue Kallikrein in Transgenic Chlamydomonas reinhardtii. Marine Drugs, 2018, 16, 493.	4.6	2
99	Draft Genome Sequence of an Algicidal Bacterium, Arenibacter sp. Strain 6A1, Isolated from Seawater during an Akashiwo sanguinea Bloom in Shenzhen, China. Microbiology Resource Announcements, 2020, 9, .	0.6	2
100	Cryo-EM structure of the fatty acid reductase LuxCâ€“LuxE complex provides insights into bacterial bioluminescence. Journal of Biological Chemistry, 2022, 298, 102006.	3.4	2
101	Temporal Patterns in Bacterioplankton Community Composition in Three Reservoirs of Similar Trophic Status in Shenzhen, China. International Journal of Environmental Research and Public Health, 2016, 13, 599.	2.6	1
102	Mechanisms of thermal treatment on two dominant copepod species in O3/BAC processing of drinking water. Ecotoxicology, 2021, 30, 945-953.	2.4	1
103	Overexpressing CrePAPS Polyadenylate Activity Enhances Protein Translation and Accumulation in Chlamydomonas reinhardtii. Marine Drugs, 2022, 20, 276.	4.6	1
104	Interaction mechanism of a natural medicine product helicid with a typical digestive enzyme trypsin. Spectroscopy Letters, 2021, 54, 99-112.	1.0	0
105	Exploring the binding mechanism of Ginsenoside Rd to Bovine Serum Albumin: Experimental studies and computational simulations. Journal of Dispersion Science and Technology, 0, , 1-12.	2.4	0
106	A U-Box Type E3 Ubiquitin Ligase Prp19-Like Protein Negatively Regulates Lipid Accumulation and Cell Size in Chlamydomonas reinhardtii. Frontiers in Microbiology, 2022, 13, 860024.	3.5	0