Ashwani K Rai

List of Publications by Year
in descending order

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41 papers	1,350 citations	393982 19 h-index	344852 36 g-index
46 all docs	46 docs citations	46 times ranked	1671 citing authors

#	Article	IF	Citations
1	Cyanobacteria: an emerging source for drug discovery. Journal of Antibiotics, 2011, 64, 401-412.	1.0	272
2	AIRBORNE ALGAE: THEIR PRESENT STATUS AND RELEVANCE¹. Journal of Phycology, 2007, 43, 615-627.	1.0	130
3	Sustainability and cyanobacteria (blue-green algae): facts and challenges. Journal of Applied Phycology, 2011, 23, 1059-1081.	1.5	117
4	An Alkaline Phosphatase/Phosphodiesterase, PhoD, Induced by Salt Stress and Secreted Out of the Cells of Aphanothece halophytica, a Halotolerant Cyanobacterium. Applied and Environmental Microbiology, 2011, 77, 5178-5183.	1.4	108
5	Enrichment of sugar content in melon fruits by hydrogen peroxide treatment. Journal of Plant Physiology, 2009, 166, 569-578.	1.6	78
6	Packed-bed column biosorption of chromium(VI) and nickel(II) onto Fenton modified Hydrilla verticillata dried biomass. Ecotoxicology and Environmental Safety, 2016, 132, 420-428.	2.9	55
7	Diversity and seasonal variation of viable algal particles in the atmosphere of a subtropical city in India. Environmental Research, 2006, 102, 252-259.	3.7	43
8	Growth behaviour of Azolla pinnata at various salinity levels and induction of high salt tolerance. Plant and Soil, 1998, 206, 79-84.	1.8	40
9	Meteorological factors affecting the diversity of airborne algae in an urban atmosphere. Ecography, 2006, 29, 766-772.	2.1	37
10	Biodiversity and biogeography of microalgae: progress and pitfalls. Environmental Reviews, 2011, 19, 1-15.	2.1	34
11	Biphasic ROS accumulation and programmed cell death in a cyanobacterium exposed to salinity (NaCl) Tj ETQq1 1 0.784314 rgBT /Ov	2.4	31
12	Effect of NaCl on growth, nitrate uptake and reduction and nitrogenase activity of Azolla pinnataâ€“Anabaena azollae. Plant Science, 2003, 164, 61-69.	1.7	30
13	Allergenicity of airborne cyanobacteria Phormidium fragile and Nostoc muscorum. Ecotoxicology and Environmental Safety, 2008, 69, 158-162.	2.9	30
14	Phosphate Metabolism in the Cyanobacterium Anabaena doliolum Under Salt Stress. Current Microbiology, 2006, 52, 6-12.	1.0	29
15	Anabaena sp. PCC7120 transformed with glycine methylation genes from Aphanothece halophytica synthesized glycine betaine showing increased tolerance to salt. Archives of Microbiology, 2012, 194, 909-914.	1.0	25
16	Physiological responses to salt stress of salt-adapted and directly salt (NaCl and NaCl+Na2SO4) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	1.0	22
17	Relationship of combined nitrogen sources to salt tolerance in freshwater cyanobacterium Anabaena doliolum. Journal of Applied Bacteriology, 1995, 78, 501-506.	1.1	21
18	Microcystin producing cyanobacterium Nostoc sp. BHU001 from a pond in India. Toxicon, 2009, 53, 587-590.	0.8	21

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19	The freshwater cyanobacterium Anabaena doliolum transformed with ApGSMT-DMT exhibited enhanced salt tolerance and protection to nitrogenase activity, but became halophilic. Microbiology (United Kingdom), 2013, 159, 641-648.	0.7	21
20	Effect of NaCl on nitrogen fixation of unadapted and NaCl-adapted Azolla pinnataâ€“Anabaena azollae. Aquatic Botany, 2001, 71, 109-117.	0.8	18
21	Urease of blue-green algae (Cyanobacteria)Anabaena doliolum andAnacystis nidulans. Current Microbiology, 1987, 16, 113-117.	1.0	17
22	Isolation and screening of phlD + plant growth promoting rhizobacteria antagonistic to Ralstonia solanacearum. World Journal of Microbiology and Biotechnology, 2012, 28, 1681-1690.	1.7	16
23	Growth and cellular ion content of a salt-sensitive symbiotic system Azolla pinnataâ€“Anabaena azollae under NaCl stress. Journal of Plant Physiology, 2006, 163, 937-944.	1.6	15
24	Magnetobiological Effects on a Cyanobacterium, Anabaena Doliolum. Electromagnetic Biology and Medicine, 1994, 13, 227-235.	0.4	14
25	Physiological, biochemical and molecular responses of the halophilic cyanobacteriumAphanothece halophyticato Pi-deficiency. European Journal of Phycology, 2013, 48, 461-473.	0.9	14
26	Quantitative dissection of antioxidative bioactive components in cultivated and wild sesame germplasm reveals potentially exploitable wide genetic variability. Journal of Crop Science and Biotechnology, 2014, 17, 127-139.	0.7	13
27	NO3â€“nutrition and salt tolerance in the cyanobacteriumAnabaenasp. PCC 7120 and mutant strains. Journal of Applied Microbiology, 1999, 86, 991-998.	1.4	12
28	Recombinant glycinebetaine improves metabolic activities, ionic balance and salt tolerance in diazotrophic freshwater cyanobacteria. Algal Research, 2015, 11, 194-203.	2.4	11
29	Mutants of the Cyanobacterium Anabaena sp. PCC 7120 Altered in Nitrate Transport and Reduction. Current Microbiology, 1999, 39, 237-243.	1.0	9
30	Predicting Phytoplankton Growth and Dynamics in Relation to Physico-chemical Characteristics of Water Body. Water, Air, and Soil Pollution, 2009, 202, 325-333.	1.1	8
31	Physiological evidence indicates microcystin-LR to be a part of quantitative chemical defense system. Journal of Applied Phycology, 2013, 25, 1575-1585.	1.5	6
32	Proteomic analysis of the salt-adapted and directly salt-(NaCl and NaCl+Na2SO4 mixture) stressed cyanobacterium Anabaena fertilissima. Journal of Applied Phycology, 2019, 31, 1185-1196.	1.5	6
33	Kinetics and regulation of urea uptake in Anabaena doliolum and Anacystis nidulans.. Journal of General and Applied Microbiology, 1987, 33, 471-479.	0.4	6
34	Low cellular P-quota and poor metabolic adaptations of the freshwater cyanobacterium Anabaena fertilissima Rao during Pi-limitation. Antonie Van Leeuwenhoek, 2013, 103, 277-291.	0.7	5
35	Hepatosplenomegaly and phytotoxicity of a planktonic cyanobacterium Nostoc sp. BHU001 isolated from agricultural pond. World Journal of Microbiology and Biotechnology, 2009, 25, 1995-2003.	1.7	4
36	Molecular interaction of nitrate transporter proteins with recombinant glycinebetaine results in efficient nitrate uptake in the cyanobacterium Anabaena PCC 7120. PLoS ONE, 2021, 16, e0257870.	1.1	3

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37	Separation of Bioactive Metabolites from Aphanothece Halophytica Through HPLC and Characterization of the Analytes Through ESI-MS and NMR. Natural Products Journal, 2013, 3, 151-157.	0.1	2
38	Growth Characteristics of Anabaena ambigua Rao and its Strains. Biochemie Und Physiologie Der Pflanzen, 1977, 171, 359-362.	0.5	1
39	Mutants of the Blue-green Alga Anabaena ambigua. Biochemie Und Physiologie Der Pflanzen, 1978, 172, 177-180.	0.5	1
40	Microcystin congeners contribute to toxicity in the halophilic cyanobacterium Aphanothece halophytica. Archives of Biological Sciences, 2014, 66, 1441-1446.	0.2	1
41	Biological Control of Bacterial Wilt Disease-Causing Pathogens: A Sustainable Approach for Increasing Crop Production. , 2014, , 383-397.		0