

Ashwani K Rai

List of Publications by Citations

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43
papers

1,026
citations

17
h-index

31
g-index

46
ext. papers

1,166
ext. citations

3.5
avg, IF

4.21
L-index

#	Paper	IF	Citations
43	Cyanobacteria: an emerging source for drug discovery. <i>Journal of Antibiotics</i> , 2011 , 64, 401-12	3.7	214
42	AIRBORNE ALGAE: THEIR PRESENT STATUS AND RELEVANCE ¹ . <i>Journal of Phycology</i> , 2007 , 43, 615-627	3	102
41	Sustainability and cyanobacteria (blue-green algae): facts and challenges. <i>Journal of Applied Phycology</i> , 2011 , 23, 1059-1081	3.2	91
40	An alkaline phosphatase/phosphodiesterase, PhoD, induced by salt stress and secreted out of the cells of <i>Aphanothece halophytica</i> , a halotolerant cyanobacterium. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5178-83	4.8	62
39	Enrichment of sugar content in melon fruits by hydrogen peroxide treatment. <i>Journal of Plant Physiology</i> , 2009 , 166, 569-78	3.6	52
38	Packed-bed column biosorption of chromium(VI) and nickel(II) onto Fenton modified <i>Hydrilla verticillata</i> dried biomass. <i>Ecotoxicology and Environmental Safety</i> , 2016 , 132, 420-8	7	48
37	Growth behaviour of <i>Azolla pinnata</i> at various salinity levels and induction of high salt tolerance. <i>Plant and Soil</i> , 1998 , 206, 79-84	4.2	35
36	Diversity and seasonal variation of viable algal particles in the atmosphere of a subtropical city in India. <i>Environmental Research</i> , 2006 , 102, 252-9	7.9	35
35	Effect of NaCl on growth, nitrate uptake and reduction and nitrogenase activity of <i>Azolla pinnata</i> / <i>Anabaena azollae</i> . <i>Plant Science</i> , 2003 , 164, 61-69	5.3	28
34	Meteorological factors affecting the diversity of airborne algae in an urban atmosphere. <i>Ecography</i> , 2006 , 29, 766-772	6.5	26
33	Phosphate metabolism in the cyanobacterium <i>Anabaena doliolum</i> under salt stress. <i>Current Microbiology</i> , 2006 , 52, 6-12	2.4	25
32	Biodiversity and biogeography of microalgae: progress and pitfalls. <i>Environmental Reviews</i> , 2011 , 19, 1-15	4.5	24
31	Allergenicity of airborne cyanobacteria <i>Phormidium fragile</i> and <i>Nostoc muscorum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2008 , 69, 158-62	7	24
30	<i>Anabaena</i> sp. PCC7120 transformed with glycine methylation genes from <i>Aphanothece halophytica</i> synthesized glycine betaine showing increased tolerance to salt. <i>Archives of Microbiology</i> , 2012 , 194, 909-14	3	23
29	Biphasic ROS accumulation and programmed cell death in a cyanobacterium exposed to salinity (NaCl and Na ₂ SO ₄). <i>Algal Research</i> , 2017 , 23, 88-95	5	19
28	Microcystin producing cyanobacterium <i>Nostoc</i> sp. BHU001 from a pond in India. <i>Toxicon</i> , 2009 , 53, 587-90	8	19
27	Relationship of combined nitrogen sources to salt tolerance in freshwater cyanobacterium <i>Anabaena doliolum</i> . <i>Journal of Applied Bacteriology</i> , 1995 , 78, 501-506		18

26	The freshwater cyanobacterium <i>Anabaena doliolum</i> transformed with ApGSMT-DMT exhibited enhanced salt tolerance and protection to nitrogenase activity, but became halophilic. <i>Microbiology (United Kingdom)</i> , 2013 , 159, 641-648	2.9	16
25	Effect of NaCl on nitrogen fixation of unadapted and NaCl-adapted <i>Azolla pinnata</i> and <i>Anabaena azollae</i> . <i>Aquatic Botany</i> , 2001 , 71, 109-117	1.8	16
24	Magnetobiological Effects on a Cyanobacterium, <i>Anabaena Doliolum</i> . <i>Electromagnetic Biology and Medicine</i> , 1994 , 13, 227-235		14
23	Quantitative dissection of antioxidative bioactive components in cultivated and wild sesame germplasm reveals potentially exploitable wide genetic variability. <i>Journal of Crop Science and Biotechnology</i> , 2014 , 17, 127-139	1.2	13
22	Urease of blue-green algae (Cyanobacteria) <i>Anabaena doliolum</i> and <i>Anacystis nidulans</i> . <i>Current Microbiology</i> , 1987 , 16, 113-117	2.4	13
21	Isolation and screening of pH ₂ O ₂ (+) plant growth promoting rhizobacteria antagonistic to <i>Ralstonia solanacearum</i> . <i>World Journal of Microbiology and Biotechnology</i> , 2012 , 28, 1681-90	4.4	12
20	Growth and cellular ion content of a salt-sensitive symbiotic system <i>Azolla pinnata</i> - <i>Anabaena azollae</i> under NaCl stress. <i>Journal of Plant Physiology</i> , 2006 , 163, 937-44	3.6	12
19	NO ₃ ⁻ nutrition and salt tolerance in the cyanobacterium <i>Anabaena</i> sp. PCC 7120 and mutant strains. <i>Journal of Applied Microbiology</i> , 1999 , 86, 991-8	4.7	11
18	Recombinant glycinebetaine improves metabolic activities, ionic balance and salt tolerance in diazotrophic freshwater cyanobacteria. <i>Algal Research</i> , 2015 , 11, 194-203	5	10
17	Physiological responses to salt stress of salt-adapted and directly salt (NaCl and NaCl+Na ₂ SO ₄ mixture)-stressed cyanobacterium <i>Anabaena fertilissima</i> . <i>Protoplasma</i> , 2018 , 255, 963-976	3.4	10
16	Mutants of the cyanobacterium <i>Anabaena</i> sp. PCC 7120 altered in nitrate transport and reduction. <i>Current Microbiology</i> , 1999 , 39, 237-43	2.4	9
15	Physiological, biochemical and molecular responses of the halophilic cyanobacterium <i>Aphanothece halophytica</i> to Pi-deficiency. <i>European Journal of Phycology</i> , 2013 , 48, 461-473	2.2	8
14	Predicting Phytoplankton Growth and Dynamics in Relation to Physico-chemical Characteristics of Water Body. <i>Water, Air, and Soil Pollution</i> , 2009 , 202, 325-333	2.6	7
13	Kinetics and regulation of urea uptake in <i>Anabaena doliolum</i> and <i>Anacystis nidulans</i> .. <i>Journal of General and Applied Microbiology</i> , 1987 , 33, 471-479	1.5	5
12	Physiological evidence indicates microcystin-LR to be a part of quantitative chemical defense system. <i>Journal of Applied Phycology</i> , 2013 , 25, 1575-1585	3.2	4
11	Cyanobacteria as a green option for sustainable agriculture 2013 , 145-166		4
10	Low cellular P-quota and poor metabolic adaptations of the freshwater cyanobacterium <i>Anabaena fertilissima</i> Rao during Pi-limitation. <i>Antonie Van Leeuwenhoek</i> , 2013 , 103, 277-91	2.1	3
9	Hepatosplenomegaly and phytotoxicity of a planktonic cyanobacterium <i>Nostoc</i> sp. BHU001 isolated from agricultural pond. <i>World Journal of Microbiology and Biotechnology</i> , 2009 , 25, 1995-2003	4.4	3

8	Proteomic analysis of the salt-adapted and directly salt-(NaCl and NaCl+Na ₂ SO ₄ mixture) stressed cyanobacterium <i>Anabaena fertilissima</i> . <i>Journal of Applied Phycology</i> , 2019 , 31, 1185-1196	3.2	3
7	The economics of cyanobacteria-based biofuel production: challenges and opportunities 2013 , 167-180		2
6	Separation of Bioactive Metabolites from <i>Aphanothece Halophytica</i> Through HPLC and Characterization of the Analytes Through ESI-MS and NMR. <i>Natural Products Journal</i> , 2013 , 3, 151-157	0.6	2
5	Growth Characteristics of <i>Anabaena ambigua</i> Rao and its Strains. <i>Biochemie Und Physiologie Der Pflanzen</i> , 1977 , 171, 359-362		1
4	Mutants of the Blue-green Alga <i>Anabaena ambigua</i> . <i>Biochemie Und Physiologie Der Pflanzen</i> , 1978 , 172, 177-180		1
3	Engineering cyanobacteria for industrial products 2013 , 303-318		
2	Molecular interaction of nitrate transporter proteins with recombinant glycinebetaine results in efficient nitrate uptake in the cyanobacterium <i>Anabaena</i> PCC 7120. <i>PLoS ONE</i> , 2021 , 16, e0257870	3.7	
1	Biological Control of Bacterial Wilt Disease-Causing Pathogens: A Sustainable Approach for Increasing Crop Production 2014 , 383-397		