Lucas J Stal

List of Publications by Citations

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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.

47
papers

3,027
citations

48
g-index

48
ext. papers

3,571
ext. citations

6.9
avg, IF

L-index

#	Paper	IF	Citations
47	Physiological ecology of cyanobacteria in microbial mats and other communities. <i>New Phytologist</i> , 1995 , 131, 1-32	9.8	308
46	How rising CO and global warming may stimulate harmful cyanobacterial blooms. <i>Harmful Algae</i> , 2016 , 54, 145-159	5.3	277
45	Adaptive divergence in pigment composition promotes phytoplankton biodiversity. <i>Nature</i> , 2004 , 432, 104-7	50.4	208
44	Comparative structure, primary production and biogenic stabilization of cohesive and non-cohesive marine sediments inhabited by microphytobenthos. <i>Estuarine, Coastal and Shelf Science</i> , 1994 , 39, 565-5	5 82 9	203
43	Structure and development of a benthic marine microbial mat. FEMS Microbiology Letters, 1985, 31, 111	I-12)5	188
42	Colourful coexistence of red and green picocyanobacteria in lakes and seas. <i>Ecology Letters</i> , 2007 , 10, 290-8	10	175
41	Exopolysaccharide production by the epipelic diatom Cylindrotheca closterium: effects of nutrient conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000 , 249, 13-27	2.1	152
40	The selective advantage of buoyancy provided by gas vesicles for planktonic cyanobacteria in the Baltic Sea. <i>New Phytologist</i> , 1997 , 136, 407-417	9.8	131
39	Nitrogenase activity in the non-heterocystous cyanobacterium Oscillatoria sp. grown under alternating light-dark cycles. <i>Archives of Microbiology</i> , 1985 , 143, 67-71	3	122
38	Analysis of bacterial and archaeal diversity in coastal microbial mats using massive parallel 16S rRNA gene tag sequencing. <i>ISME Journal</i> , 2011 , 5, 1701-12	11.9	118
37	Microphytobenthos as a biogeomorphological force in intertidal sediment stabilization. <i>Ecological Engineering</i> , 2010 , 36, 236-245	3.9	108
36	Molecular ecology of microbial mats. FEMS Microbiology Ecology, 2014, 90, 335-50	4.3	93
35	Colorful microdiversity of Synechococcus strains (picocyanobacteria) isolated from the Baltic Sea. <i>ISME Journal</i> , 2009 , 3, 397-408	11.9	92
34	Horizontal transfer of the nitrogen fixation gene cluster in the cyanobacterium Microcoleus chthonoplastes. <i>ISME Journal</i> , 2010 , 4, 121-30	11.9	82
33	Cyanobacterial Mats and Stromatolites 2012 , 65-125		74
32	Phenotypic and genetic diversification of Pseudanabaena spp. (cyanobacteria). <i>ISME Journal</i> , 2009 , 3, 31-46	11.9	61
31	Oxygen protection of nitrogenase in the aerobically nitrogen fixing, non-heterocystous cyanobacterium Oscillatoria sp <i>Archives of Microbiology</i> , 1985 , 143, 72-76	3	60

30	Microbial diversity in the hypersaline Lake Meyghan, Iran. Scientific Reports, 2017, 7, 11522	4.9	44
29	Light dependency of nitrogen fixation in a coastal cyanobacterial mat. ISME Journal, 2008, 2, 1077-88	11.9	44
28	Coastal microbial mat diversity along a natural salinity gradient. <i>PLoS ONE</i> , 2013 , 8, e63166	3.7	40
27	Composition and heterogeneity of the microbial community in a coastal microbial mat as revealed by the analysis of pigments and phospholipid-derived fatty acids. <i>Journal of Sea Research</i> , 2010 , 63, 62-	7 ð ·9	38
26	Dominance of unicellular cyanobacteria in the diazotrophic community in the Atlantic Ocean. <i>Limnology and Oceanography</i> , 2014 , 59, 623-637	4.8	34
25	Effect of salinity on nitrogenase activity and composition of the active diazotrophic community in intertidal microbial mats. <i>Archives of Microbiology</i> , 2012 , 194, 483-91	3	33
24	Tracing carbon flow from microphytobenthos to major bacterial groups in an intertidal marine sediment by using an in situ 13C pulse-chase method. <i>Limnology and Oceanography</i> , 2014 , 59, 1275-128	7 ^{4.8}	32
23	Fermentation in cyanobacteria1. FEMS Microbiology Reviews, 2006, 21, 179-211	15.1	31
22	Sulphate-limited growth in the N -fixing unicellular cyanobacterium Gloeothece (Ngeli) sp. PCC 6909. <i>New Phytologist</i> , 1994 , 128, 273-281	9.8	27
21	Dinitrogen fixation in a unicellular chlorophyll d-containing cyanobacterium. ISME Journal, 2012, 6, 136	7 <i>-1</i> 717.9	25
20	Bioremediation of chromium contaminated water by diatoms with concomitant lipid accumulation for biofuel production. <i>Journal of Environmental Management</i> , 2018 , 227, 313-320	7.9	23
19	Isolation, characterization and localization of extracellular polymeric substances from the cyanobacterium Arthrospira platensis strain MMG-9. <i>European Journal of Phycology</i> , 2014 , 49, 143-150	2.2	22
18	The biogeochemistry of two eutrophic marine lagoons and its effect on microphytobenthic communities. <i>Hydrobiologia</i> , 1996 , 329, 185-198	2.4	19
17	Phototrophic marine benthic microbiomes: the ecophysiology of these biological entities. <i>Environmental Microbiology</i> , 2019 , 21, 1529-1551	5.2	17
16	Nitrogen fixation rates in algal turf communities of a degraded versus less degraded coral reef. <i>Coral Reefs</i> , 2014 , 33, 1003-1015	4.2	16
15	Drivers of the dynamics of diazotrophs and denitrifiers in North Sea bottom waters and sediments. <i>Frontiers in Microbiology</i> , 2015 , 6, 738	5.7	15
14	Nitrification and Nitrifying Bacteria in a Coastal Microbial Mat. Frontiers in Microbiology, 2015 , 6, 1367	5.7	15
13	EFFECT OF TEMPERATURE ON THE SENSITIVITY OF NITROGENASE TO OXYGEN IN TWO HETEROCYSTOUS CYANOBACTERIA1. <i>Journal of Phycology</i> , 2010 , 46, 1172-1179	3	15

12	Denitrification and the denitrifier community in coastal microbial mats. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	13
11	LC/IRMS analysis: A powerful technique to trace carbon flow in microphytobenthic communities in intertidal sediments. <i>Journal of Sea Research</i> , 2014 , 92, 19-25	1.9	13
10	Daily rhythmicity in coastal microbial mats. Npj Biofilms and Microbiomes, 2018, 4, 11	8.2	12
9	Seasonal development of a coastal microbial mat. <i>Scientific Reports</i> , 2019 , 9, 9035	4.9	10
8	Seasonal changes in the biochemical fate of carbon fixed by benthic diatoms in intertidal sediments. <i>Limnology and Oceanography</i> , 2018 , 63, 550-569	4.8	9
7	A versatile method for simultaneous stable carbon isotope analysis of DNA and RNA nucleotides by liquid chromatography/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2014 , 28, 1401-11	2.2	7
6	Gregarious cyanobacteria. <i>Environmental Microbiology</i> , 2017 , 19, 2105-2109	5.2	6
5	Fermentation in the unicellular cyanobacterium Microcystis PCC7806 1994 , 162, 63		4
4	Interactions between nitrogen fixation and oxegenic photosynthesis in a marine cyanobacterial mat		4
3	Cyanobacterial cellulose synthesis in the light of the photanol concept 2013 , 181-195		3
2	The economics of cyanobacteria-based biofuel production: challenges and opportunities 2013 , 167-180		2
1	Circadian clock-controlled gene expression in co-cultured, mat-forming cyanobacteria. <i>Scientific</i> Reports. 2020 , 10, 14095	4.9	2