

# Lucas J Stal

## List of Publications by Year in Descending Order

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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

26  
h-index

48  
g-index

48  
ext. papers

3,571  
ext. citations

6.9  
avg, IF

5.37  
L-index

#	Paper	IF	Citations
47	Circadian clock-controlled gene expression in co-cultured, mat-forming cyanobacteria. <i>Scientific Reports</i> , <b>2020</b> , 10, 14095	4.9	2
46	Seasonal development of a coastal microbial mat. <i>Scientific Reports</i> , <b>2019</b> , 9, 9035	4.9	10
45	Phototrophic marine benthic microbiomes: the ecophysiology of these biological entities. <i>Environmental Microbiology</i> , <b>2019</b> , 21, 1529-1551	5.2	17
44	Seasonal changes in the biochemical fate of carbon fixed by benthic diatoms in intertidal sediments. <i>Limnology and Oceanography</i> , <b>2018</b> , 63, 550-569	4.8	9
43	Bioremediation of chromium contaminated water by diatoms with concomitant lipid accumulation for biofuel production. <i>Journal of Environmental Management</i> , <b>2018</b> , 227, 313-320	7.9	23
42	Daily rhythmicity in coastal microbial mats. <i>Npj Biofilms and Microbiomes</i> , <b>2018</b> , 4, 11	8.2	12
41	Gregarious cyanobacteria. <i>Environmental Microbiology</i> , <b>2017</b> , 19, 2105-2109	5.2	6
40	Microbial diversity in the hypersaline Lake Meyghan, Iran. <i>Scientific Reports</i> , <b>2017</b> , 7, 11522	4.9	44
39	How rising CO and global warming may stimulate harmful cyanobacterial blooms. <i>Harmful Algae</i> , <b>2016</b> , 54, 145-159	5.3	277
38	Denitrification and the denitrifier community in coastal microbial mats. <i>FEMS Microbiology Ecology</i> , <b>2015</b> , 91,	4.3	13
37	Drivers of the dynamics of diazotrophs and denitrifiers in North Sea bottom waters and sediments. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 738	5.7	15
36	Nitrification and Nitrifying Bacteria in a Coastal Microbial Mat. <i>Frontiers in Microbiology</i> , <b>2015</b> , 6, 1367	5.7	15
35	LC/IRMS analysis: A powerful technique to trace carbon flow in microphytobenthic communities in intertidal sediments. <i>Journal of Sea Research</i> , <b>2014</b> , 92, 19-25	1.9	13
34	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> , <b>2014</b> , 28, 1401-11	2.2	7
33	Nitrogen fixation rates in algal turf communities of a degraded versus less degraded coral reef. <i>Coral Reefs</i> , <b>2014</b> , 33, 1003-1015	4.2	16
32	Molecular ecology of microbial mats. <i>FEMS Microbiology Ecology</i> , <b>2014</b> , 90, 335-50	4.3	93
31	Isolation, characterization and localization of extracellular polymeric substances from the cyanobacterium <i>Arthrospira platensis</i> strain MMG-9. <i>European Journal of Phycology</i> , <b>2014</b> , 49, 143-150	2.2	22

30	Dominance of unicellular cyanobacteria in the diazotrophic community in the Atlantic Ocean. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 623-637	4.8	34
29	Tracing carbon flow from microphytobenthos to major bacterial groups in an intertidal marine sediment by using an in situ <sup>13</sup> C pulse-chase method. <i>Limnology and Oceanography</i> , <b>2014</b> , 59, 1275-1287	4.8	32
28	The economics of cyanobacteria-based biofuel production: challenges and opportunities <b>2013</b> , 167-180		2
27	Cyanobacterial cellulose synthesis in the light of the photanol concept <b>2013</b> , 181-195		3
26	Coastal microbial mat diversity along a natural salinity gradient. <i>PLoS ONE</i> , <b>2013</b> , 8, e63166	3.7	40
25	Dinitrogen fixation in a unicellular chlorophyll d-containing cyanobacterium. <i>ISME Journal</i> , <b>2012</b> , 6, 1367-1379	4.7	25
24	Cyanobacterial Mats and Stromatolites <b>2012</b> , 65-125		74
23	Effect of salinity on nitrogenase activity and composition of the active diazotrophic community in intertidal microbial mats. <i>Archives of Microbiology</i> , <b>2012</b> , 194, 483-91	3	33
22	Analysis of bacterial and archaeal diversity in coastal microbial mats using massive parallel 16S rRNA gene tag sequencing. <i>ISME Journal</i> , <b>2011</b> , 5, 1701-12	11.9	118
21	Horizontal transfer of the nitrogen fixation gene cluster in the cyanobacterium <i>Microcoleus chthonoplastes</i> . <i>ISME Journal</i> , <b>2010</b> , 4, 121-30	11.9	82
20	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> , <b>2010</b> , 63, 62-70	7.9	38
19	Microphytobenthos as a biogeomorphological force in intertidal sediment stabilization. <i>Ecological Engineering</i> , <b>2010</b> , 36, 236-245	3.9	108
18	EFFECT OF TEMPERATURE ON THE SENSITIVITY OF NITROGENASE TO OXYGEN IN TWO HETEROCYSTOUS CYANOBACTERIA1. <i>Journal of Phycology</i> , <b>2010</b> , 46, 1172-1179	3	15
17	Colorful microdiversity of <i>Synechococcus</i> strains (picocyanobacteria) isolated from the Baltic Sea. <i>ISME Journal</i> , <b>2009</b> , 3, 397-408	11.9	92
16	Phenotypic and genetic diversification of <i>Pseudanabaena</i> spp. (cyanobacteria). <i>ISME Journal</i> , <b>2009</b> , 3, 31-46	11.9	61
15	Light dependency of nitrogen fixation in a coastal cyanobacterial mat. <i>ISME Journal</i> , <b>2008</b> , 2, 1077-88	11.9	44
14	Colourful coexistence of red and green picocyanobacteria in lakes and seas. <i>Ecology Letters</i> , <b>2007</b> , 10, 290-8	10	175
13	Fermentation in cyanobacteria1. <i>FEMS Microbiology Reviews</i> , <b>2006</b> , 21, 179-211	15.1	31

12	Adaptive divergence in pigment composition promotes phytoplankton biodiversity. <i>Nature</i> , <b>2004</b> , 432, 104-7	50.4	208
11	Exopolysaccharide production by the epipelagic diatom <i>Cylindrotheca closterium</i> : effects of nutrient conditions. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2000</b> , 249, 13-27	2.1	152
10	The selective advantage of buoyancy provided by gas vesicles for planktonic cyanobacteria in the Baltic Sea. <i>New Phytologist</i> , <b>1997</b> , 136, 407-417	9.8	131
9	The biogeochemistry of two eutrophic marine lagoons and its effect on microphytobenthic communities. <i>Hydrobiologia</i> , <b>1996</b> , 329, 185-198	2.4	19
8	Physiological ecology of cyanobacteria in microbial mats and other communities. <i>New Phytologist</i> , <b>1995</b> , 131, 1-32	9.8	308
7	Sulphate-limited growth in the N-fixing unicellular cyanobacterium <i>Gloeotheca</i> (N $\beta$ geli) sp. PCC 6909. <i>New Phytologist</i> , <b>1994</b> , 128, 273-281	9.8	27
6	Comparative structure, primary production and biogenic stabilization of cohesive and non-cohesive marine sediments inhabited by microphytobenthos. <i>Estuarine, Coastal and Shelf Science</i> , <b>1994</b> , 39, 565-582	2.9	203
5	Fermentation in the unicellular cyanobacterium <i>Microcystis</i> PCC7806 <b>1994</b> , 162, 63		4
4	Nitrogenase activity in the non-heterocystous cyanobacterium <i>Oscillatoria</i> sp. grown under alternating light-dark cycles. <i>Archives of Microbiology</i> , <b>1985</b> , 143, 67-71	3	122
3	Oxygen protection of nitrogenase in the aerobically nitrogen fixing, non-heterocystous cyanobacterium <i>Oscillatoria</i> sp.. <i>Archives of Microbiology</i> , <b>1985</b> , 143, 72-76	3	60
2	Structure and development of a benthic marine microbial mat. <i>FEMS Microbiology Letters</i> , <b>1985</b> , 31, 111-125	12.5	188
1	Interactions between nitrogen fixation and oxygenic photosynthesis in a marine cyanobacterial mat		4