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List of Publications by Year
in descending order

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37 papers	1,786 citations	331259 21 h-index	344852 36 g-index
39 all docs	39 docs citations	39 times ranked	1281 citing authors

#	Article	IF	Citations
1	Photosynthesis, pigments and ultrastructure of the alpine snow algaChlamydomonas nivalis. European Journal of Phycology, 2005, 40, 259-268.	0.9	220
2	Physiological and morphological processes in the Alpine snow alga Chloromonas nivalis (Chlorophyceae) during cyst formation. Protoplasma, 2010, 243, 73-86.	1.0	118
3	Characterization of an UV- and VIS-absorbing, purpurogallin-derived secondary pigment new to algae and highly abundant in Mesotaenium berggrenii (Zygnematophyceae, Chlorophyta), an extremophyte living on glaciers. FEMS Microbiology Ecology, 2012, 79, 638-648.	1.3	107
4	Snow and Glacial Algae: A Review¹. Journal of Phycology, 2020, 56, 264-282.	1.0	105
5	Algae Drive Enhanced Darkening of Bare Ice on the Greenland Ice Sheet. Geophysical Research Letters, 2017, 44, 11,463.	1.5	101
6	Response of arctic snow and permafrost algae to high light and nitrogen stress by changes in pigment composition and applied aspects for biotechnology. FEMS Microbiology Ecology, 2009, 67, 432-443.	1.3	99
7	Ecophysiology and ultrastructure of Ancylonema nordenskiÃ¶ldii (Zygnematales, Streptophyta), causing brown ice on glaciers in Svalbard (high arctic). Polar Biology, 2012, 35, 899-908.	0.5	94
8	Insights into the biology and phylogeny of Chloromonas polyptera (Chlorophyta), an alga causing orange snow in Maritime Antarctica. Antarctic Science, 2013, 25, 648-656.	0.5	80
9	Physiology, ultrastructure and habitat of the ice algaMesotaenium berggrenii(Zygnemaphyceae,) Tj ETQq1 1 0.784314 rgBT /Ov	0.6	65
10	Chloromonas nivalis subsp. tatrae, subsp. nov. (Chlamydomonadales, Chlorophyta): re-examination of a snow alga from the High Tatra Mountains (Slovakia). Fottea, 2018, 18, 1-18.	0.4	64
11	Cell Structure and Physiology of Alpine Snow and Ice Algae. , 2012, , 175-185.		62
12	Changes in Phenolic Compounds and Cellular Ultrastructure of Arctic and Antarctic Strains of Zygnema (Zygnematophyceae, Streptophyta) after Exposure to Experimentally Enhanced UV to PAR Ratio. Microbial Ecology, 2013, 65, 68-83.	1.4	60
13	Unusual phenolic compounds contribute to ecophysiological performance in the purpleâ€colored green alga <scp>Z</scp>ygogonium ericetorum (Zygnematophyceae, Streptophyta) from a highâ€alpine habitat. Journal of Phycology, 2013, 49, 648-660.	1.0	57
14	Analysis of Mycosporine-Like Amino Acids in Selected Algae and Cyanobacteria by Hydrophilic Interaction Liquid Chromatography and a Novel MAA from the Red Alga Catenella repens. Marine Drugs, 2015, 13, 6291-6305.	2.2	53
15	Ecophysiology, secondary pigments and ultrastructure ofChlainomonassp. (Chlorophyta) from the European Alps compared withChlamydomonas nivalisforming red snow. FEMS Microbiology Ecology, 2016, 92, fiw030.	1.3	49
16	Effects of realistically simulated, elevated UV irradiation on photosynthesis and pigment composition of the alpine snow alga Chlamydomonas nivalis and the arctic soil alga Tetracystis sp. (Chlorophyceae). Photosynthetica, 2010, 48, 269-277.	0.9	47
17	<scp>H</scp>ydrurusâ€related golden algae (<scp>C</scp>hrysophyceae) cause yellow snow in polar summer snowfields. Phycological Research, 2013, 61, 277-285.	0.8	46
18	Cytoarchitecture of the desiccation-tolerant green alga Zygogonium ericetorum. Protoplasma, 2010, 243, 15-24.	1.0	42

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19	Characterisation of esterified secondary carotenoids and of their isomers in green algae: a HPLC approach. Algological Studies (Stuttgart, Germany: 2007), 2007, 124, 85-94.	0.4	34
20	Ecophysiological and morphological comparison of two populations ofChlainomonassp. (Chlorophyta) causing red snow on ice-covered lakes in the High Tatras and Austrian Alps. European Journal of Phycology, 2018, 53, 230-243.	0.9	32
21	Imbricaric Acid and Perlatolic Acid: Multi-Targeting Anti-Inflammatory Depsides from Cetrelia monachorum. PLoS ONE, 2013, 8, e76929.	1.1	30
22	Ecophysiology of Chloromonas hindakii sp. nov. (Chlorophyceae), Causing Orange Snow Blooms at Different Light Conditions. Microorganisms, 2019, 7, 434.	1.6	23
23	Unicellular versus Filamentous: The Glacial Alga Ancylonema alaskana comb. et stat. nov. and Its Ecophysiological Relatedness to Ancylonema nordenskioeldii (Zygnematophyceae, Streptophyta). Microorganisms, 2021, 9, 1103.	1.6	22
24	Distribution and UV protection strategies of zooplankton in clear and glacier-fed alpine lakes. Scientific Reports, 2017, 7, 4487.	1.6	20
25	Evaluating amplicon high-throughput sequencing data of microalgae living in melting snow: improvements and limitations. Fottea, 2019, 19, 115-131.	0.4	19
26	The green algaZygogonium ericetorum(Zygnematophyceae, Charophyta) shows high iron and aluminium tolerance: protection mechanisms and photosynthetic performance. FEMS Microbiology Ecology, 2016, 92, fiw103.	1.3	17
27	Ecology, cytology and phylogeny of the snow alga Scotiella cryophila K-1 (Chlamydomonadales,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.6	17
28	Tetraedron minimum, First Reported Member of Hydrodictyaceae to Accumulate Secondary Carotenoids. Life, 2021, 11, 107.	1.1	15
29	Two New Kremastochrysopsis species, K.Âaustriaca sp. nov. and K.Âamericana sp. nov. (Chrysophyceae) 1. Journal of Phycology, 2020, 56, 135-145.	1.0	14
30	Ice-Binding Proteins in a Chrysophycean Snow Alga: Acquisition of an Essential Gene by Horizontal Gene Transfer. Frontiers in Microbiology, 2019, 10, 2697.	1.5	12
31	Growth, fatty, and amino acid profiles of the soil alga Vischeria sp. E71.10 (Eustigmatophyceae) under different cultivation conditions. Folia Microbiologica, 2020, 65, 1017-1023.	1.1	12
32	Cysts of the Snow Alga Chloromonas krienitzii (Chlorophyceae) Show Increased Tolerance to Ultraviolet Radiation and Elevated Visible Light. Frontiers in Plant Science, 2020, 11, 617250.	1.7	12
33	Coelastrella terrestris for Adonixanthin Production: Physiological Characterization and Evaluation of Secondary Carotenoid Productivity. Marine Drugs, 2022, 20, 175.	2.2	11
34	Ecophysiological and ultrastructural characterisation of the circumpolar orange snow alga Sanguina aurantia compared to the cosmopolitan red snow alga Sanguina nivaloides (Chlorophyta). Polar Biology, 2021, 44, 105-117.	0.5	9
35	Investigating the Growth of Algae Under Low Atmospheric Pressures for Potential Food and Oxygen Production on Mars. Frontiers in Microbiology, 2021, 12, 733244.	1.5	9
36	Photophysiological investigations of the temperature stress responses of Zygnema spp (Zygnematophyceae) from subpolar and polar habitats (Iceland, Svalbard). Phycologia, 2022, 61, 299-311.	0.6	6

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37	Thorsmoerkia curvula gen. et spec. nov. (Trebouxiophyceae, Chlorophyta), a semi-terrestrial microalga from Iceland exhibits high levels of unsaturated fatty acids. Journal of Applied Phycology, 2021, 33, 3671-3682.	1.5	3