MiloÅ¡ BartÃ¡k

List of Publications by Year
in descending order

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71 papers	1,586 citations	279487 23 h-index	329751 37 g-index
71 all docs	71 docs citations	71 times ranked	1305 citing authors

#	Article	IF	Citations
1	Technique of the Modulated Chlorophyll Fluorescence: Basic Concepts, Useful Parameters, and Some Applications. Photosynthetica, 1999, 37, 339.	0.9	297
2	Description of Massilia rubra sp. nov., Massilia aquatica sp. nov., Massilia mucilaginosa sp. nov., Massilia frigida sp. nov., and one Massilia genomospecies isolated from Antarctic streams, lakes and regoliths. Systematic and Applied Microbiology, 2020, 43, 126112.	1.2	60
3	Annual variation in photoacclimation and photoprotection of the photobiont in the foliose lichen Xanthoria parietina. Journal of Photochemistry and Photobiology B: Biology, 2006, 83, 151-162.	1.7	56
4	Low-temperature limitation of primary photosynthetic processes in Antarctic lichens Umbilicaria antarctica and Xanthoria elegans. Polar Biology, 2007, 31, 47-51.	0.5	49
5	Climatic and ecological characteristics of deglaciated area of James Ross Island, Antarctica, with a special respect to vegetation cover. Czech Polar Reports, 2011, 1, 49-62.	0.2	48
6	Curling during desiccation protects the foliose lichen Lobaria pulmonaria against photoinhibition. Oecologia, 2006, 149, 553-560.	0.9	47
7	Highâ€Light Stress and Photoprotection in Umbilicaria antarctica Monitored by Chlorophyll Fluorescence Imaging and Changes in Zeaxanthin and Glutathione. Plant Biology, 2004, 6, 333-341.	1.8	45
8	A dip in the chlorophyll fluorescence induction at 0.2â€“2 s in Trebouxia-possessing lichens reflects a fast reoxidation of photosystem I. A comparison with higher plants. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 12-20.	0.5	44
9	Visualized photosynthetic characteristics of the lichen Xanthoria elegans related to daily courses of light, temperature and hydration: a field study from Galindez Island, maritime Antarctica. Lichenologist, 2005, 37, 433-443.	0.5	39
10	Inhibitory Effect of Fluoranthene on Photosynthetic Processes in Lichens Detected by Chlorophyll Fluorescence. Ecotoxicology, 2006, 15, 121-131.	1.1	36
11	Heterogeneity of Chlorophyll Fluorescence over Thalli of Several Foliose Macrolichens Exposed to Adverse Environmental Factors: Interspecific Differences as Related to Thallus Hydration and High Irradiance. Photosynthetica, 2000, 38, 531-537.	0.9	35
12	Inhibition of photosynthetic processes in foliose lichens induced by temperature and osmotic stress. Biologia Plantarum, 2006, 50, 624-634.	1.9	34
13	Red-pink pigmented Hymenobacter coccineus sp. nov., Hymenobacter lapidarius sp. nov. and Hymenobacter glacialis sp. nov., isolated from rocks in Antarctica. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1975-1983.	0.8	33
14	Sensitivity of Photosystem 2 of Antarctic Lichens to High Irradiance Stress: Fluorometric Study of Fruticose (Usnea antarctica) and Foliose (Umbilicaria decussata) Species. Photosynthetica, 2003, 41, 497-504.	0.9	32
15	Pedobacter jamesrossensis sp. nov., Pedobacter lithocola sp. nov., Pedobacter mendelii sp. nov. and Pedobacter petrophilus sp. nov., isolated from the Antarctic environment. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 1499-1507.	0.8	32
16	Effects of Thallus Temperature and Hydration on Photosynthetic Parameters of Cetraria Islandica from Contrasting Habitats. Photosynthetica, 2001, 39, 427-435.	0.9	30
17	Interspecific differences in cryoresistance of lichen symbiotic algae of genus Trebouxia assessed by cell viability and chlorophyll fluorescence. Cryobiology, 2012, 64, 215-222.	0.3	30
18	Sensitivity of photosynthetic processes to freezing temperature in extremophilic lichens evaluated by linear cooling and chlorophyll fluorescence. Cryobiology, 2016, 73, 329-334.	0.3	30

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19	Changes in glutathione and xanthophyll cycle pigments in the high light-stressed lichens Umbilicaria antarctica and Lasallia pustulata. Journal of Photochemistry and Photobiology B: Biology, 2005, 79, 35-41.	1.7	28
20	Lichensâ€"a new source or yet unknown host of herbaceous plant viruses?. European Journal of Plant Pathology, 2014, 138, 549-559.	0.8	27
21	Changes in photosynthesis, pigment composition and glutathione contents in two Antarctic lichens during a light stress and recovery. Photosynthetica, 2014, 52, 538-547.	0.9	26
22	Death age, seasonality, taphonomy and colonization of seal carcasses from Ulu Peninsula, James Ross Island, Antarctic Peninsula. Antarctic Science, 2016, 28, 3-16.	0.5	25
23	Vegetation mapping of moss-dominated areas of northern part of James Ross Island (Antarctica) and a suggestion of protective measures. Czech Polar Reports, 2015, 5, 75-87.	0.2	25
24	Eco-Physiological Screening of Different Tomato Genotypes in Response to High Temperatures: A Combined Field-to-Laboratory Approach. Plants, 2020, 9, 508.	1.6	23
25	Temperature effects on photosynthetic performance of Antarctic lichen Dermatocarpon polyphyllizum: a chlorophyll fluorescence study. Polar Biology, 2019, 42, 685-701.	0.5	21
26	Features of chlorophyll fluorescence transients can be used to investigate low temperature induced effects on photosystem II of algal lichens from polar regions (Short Communication). Czech Polar Reports, 2015, 5, 99-111.	0.2	21
27	Effect of dehydration on spectral reflectance and photosynthetic efficiency in Umbilicaria arctica and U. hyperborea. Biologia Plantarum, 2015, 59, 357-365.	1.9	19
28	Description of Pseudomonas gregormendelii sp. nov., a Novel Psychrotrophic Bacterium from James Ross Island, Antarctica. Current Microbiology, 2016, 73, 84-90.	1.0	19
29	Pedobacter psychrophilus sp. nov., isolated from fragmentary rock. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 2538-2543.	0.8	18
30	Cryoproective role of ribitol in Xanthoparmelia somloensis. Biologia Plantarum, 2009, 53, 677-684.	1.9	17
31	Flavobacterium circumlabens sp. nov. and Flavobacterium cupreum sp. nov., two psychrotrophic species isolated from Antarctic environmental samples. Systematic and Applied Microbiology, 2019, 42, 291-301.	1.2	17
32	Photosynthetic electron transport at low temperatures in the green algal foliose lichens Lasallia pustulata and Umbilicaria hirsuta affected by manipulated levels of ribitol. Photosynthetica, 2009, 47, 199-205.	0.9	16
33	Photoinhibition of photosynthesis in Antarctic lichen Usnea antarctica. I. Light intensity- and light duration-dependent changes in functioning of photosystem II. Czech Polar Reports, 2012, 2, 42-51.	0.2	16
34	Sensitivity of Antarctic freshwater algae to salt stress assessed by fast chlorophyll fluorescence transient. Czech Polar Reports, 2013, 3, 163-172.	0.2	16
35	Photosynthesis of lichen symbiotic alga Trebouxia erici as affected by irradiance and osmotic stress. Biologia Plantarum, 2006, 50, 257-264.	1.9	15
36	Mucilaginibacter terrae sp. nov., isolated from Antarctic soil. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 4002-4007.	0.8	13

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37	Interspecific differences in photosynthetic efficiency and spectral reflectance in two Umbilicaria species from Svalbard during controlled desiccation. Czech Polar Reports, 2012, 2, 31-41.	0.2	13
38	Photosynthetic performance of Antarctic lichen Dermatocarpon polyphyllizum when affected by desiccation and low temperatures. Photosynthesis Research, 2020, 145, 159-177.	1.6	12
39	Duration of irradiation rather than quantity and frequency of high irradiance inhibits photosynthetic processes in the lichen Lasallia pustulata. Photosynthetica, 2008, 46, .	0.9	11
40	The contents and distributions of cadmium, mercury, and lead in Usnea antarctica lichens from Solorina Valley, James Ross Island (Antarctica). Environmental Monitoring and Assessment, 2018, 190, 13.	1.3	11
41	Special issue in honour of Prof. Reto J. Strasser -ÂAnalysis of K- and L-band appearance in OJIPs in Antarctic lichens in low and high temperature. Photosynthetica, 2020, 58, 646-656.	0.9	11
42	Temperature-dependent growth rate and photosynthetic performance of Antarctic symbiotic alga Trebouxia sp. cultivated in a bioreactor. Czech Polar Reports, 2013, 3, 19-27.	0.2	11
43	Identification of some lichenised fungi from James Ross Island (Antarctic Peninsula) using nrITS markers. New Zealand Journal of Botany, 2018, 56, 276-290.	0.8	10
44	Comparative analysis of heterogeneity of primary photosynthe-tic processes within fruticose lichen thalli: Preliminary study of interspecific differences (Short Communication). Czech Polar Reports, 2014, 4, 149-157.	0.2	10
45	Dehydration-induced responses of primary photosynthetic processes and spectral reflectance indices in Antarctic Nostoc commune. Czech Polar Reports, 2016, 6, 87-95.	0.2	10
46	Desiccationâ€induced changes in photochemical processes of photosynthesis and spectral reflectance in Nostoc commune (<scp>C</scp>yanobacteria, <scp>N</scp>ostocales) colonies from polar regions. Phycological Research, 2017, 65, 44-50.	0.8	9
47	Inhibition of Primary Photosynthesis in Desiccating Antarctic Lichens Differing in Their Photobionts, Thallus Morphology, and Spectral Properties. Microorganisms, 2021, 9, 818.	1.6	9
48	Effects of short-term low temperature stress on chlorophyll fluorescence transients in Antarctic lichen species. Czech Polar Reports, 2016, 6, 54-65.	0.2	9
49	The susceptibility of PS II of Lolium perenne to a sudden fall in air temperatureâ€"response of plants grown in elevated CO2 and/or increased air temperature. Environmental and Experimental Botany, 1998, 39, 85-95.	2.0	8
50	Lichen Photosynthesis. Scaling from the Cellular to the Organism Level. Advances in Photosynthesis and Respiration, 2014, , 379-400.	1.0	8
51	Long-term fluorometric measurements of photosynthetic processes in Antarctic moss Bryum sp. during austral summer season. Czech Polar Reports, 2014, 4, 63-72.	0.2	8
52	Short-term responses of primary processes in PS II to low temperature are sensitively indicated by fast chlorophyll fluorescence kinetics in Antarctic lichen Dermatocarpon polyphyllizum. Czech Polar Reports, 2017, 7, 74-82.	0.2	8
53	A correlative approach, combining chlorophyll a fluorescence, reflectance, and Raman spectroscopy, for monitoring hydration induced changes in Antarctic lichen Dermatocarpon polyphyllizum. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 208, 13-23.	2.0	7
54	Chlorophyll a fluorescence and Raman spectroscopy can monitor activation/deactivation of photosynthesis and carotenoids in Antarctic lichens. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118458.	2.0	7

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55	Responses of thallus anatomy and chlorophyll fluorescence-based photosynthetic characteristics of two Antarctic species of genus Usnea to low temperature. Photosynthetica, 2021, 59, 95-105.	0.9	6
56	Changes in spectral reflectance of selected Antarctic and South American lichens caused by dehydration and artificially-induced absence of secondary compounds. Czech Polar Reports, 2016, 6, 221-230.	0.2	6
57	Spectral reflectance indices sense desiccation induced changes in the thalli of Antarctic lichen Dermatocarpon polyphyllizum. Czech Polar Reports, 2018, 8, 249-259.	0.2	6
58	Open top chamber microclimate may limit photosynthetic processes in Antarctic lichen: Case study from King George Island, Antarctica. Czech Polar Reports, 2019, 9, 61-77.	0.2	6
59	Effect of <scp>UV</scp>â€B radiation on the content of <scp>UV</scp>â€B absorbing compounds and photosynthetic parameters in Parmotrema austrosinense from two contrasting habitats. Plant Biology, 2018, 20, 808-816.	1.8	5
60	Chilling effects on primary photosynthetic processes in Medicago sativa: Acclimatory changes after short- and long-term exposure to low temperatures. Biologia (Poland), 2020, 75, 1105-1114.	0.8	5
61	Photoinhibition of photosynthesis in Antarctic lichen Usnea antarctica. II. Analysis of non-photochemical quenching mechanisms activated by low to medium light doses. Czech Polar Reports, 2014, 4, 90-99.	0.2	5
62	Effect of temperature and increased concentration of CO2 on growth and photosynthetic activity of polar alga Trebouxia sp.. Czech Polar Reports, 2014, 4, 47-56.	0.2	5
63	Diurnal changes in photosynthetic activity of the biological soil crust and lichen: Effects of abiotic factors (Petuniabukta, Svalbard). Czech Polar Reports, 2014, 4, 158-167.	0.2	5
64	Gradient of algal and cyanobacterial assemblages in a temporary lake with melting water at Solorina Valley, James Ross Island, Antarctica. Czech Polar Reports, 2014, 4, 185-192.	0.2	5
65	Post rapid freezing growth of Antarctic strain of Heterococcus sp. monitored by cell viability and chlorophyll fluorescence. Cryobiology, 2018, 85, 39-46.	0.3	4
66	Resistance of Antarctic moss Sanionia uncinata to photoinhibition: chlorophyll fluorescence analysis of samples from the western and eastern coasts of the Antarctic Peninsula. Plant Biology, 2021, 23, 653-663.	1.8	4
67	Extreme environments on Earth as analogues for life on other planets: astrobiology.. , 2012, , 522-536.		3
68	Species-specific responses of spectral reflectance and the photosynthetic characteristics in two selected Antarctic mosses to thallus desiccation. Acta Physiologiae Plantarum, 2022, 44, 1.	1.0	3
69	The Effects of Foliar Application of Phenoxy and Imidazoline Family Herbicides on the Limitation of Primary Photosynthetic Processes in Galega orientalis L.. Agronomy, 2022, 12, 96.	1.3	3
70	Effects of controlled oxidative stress and uncouplers on primary photosynthetic processes in vegetative cells of Antarctic alga Zygnema sp.. Czech Polar Reports, 2016, 6, 96-107.	0.2	2
71	Limitation of photosynthetic processes in photosystem II in alpine mosses exposed to low temperatures: Response of chlorophyll fluorescence parameters. Czech Polar Reports, 2018, 8, 218-229.	0.2	2