

Linda Nedbalová

List of Publications by Year in descending order

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95
papers

2,062
citations

218677

26
h-index

315739

38
g-index

96
all docs

96
docs citations

96
times ranked

1888
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace concentrations of iron nanoparticles cause overproduction of biomass and lipids during cultivation of cyanobacteria and microalgae. <i>Journal of Applied Phycology</i> , 2015, 27, 1443-1451.	2.8	101
2	Long-term studies (1871–2000) on acidification and recovery of lakes in the Bohemian Forest (central Tj ETQq0 0 0 rgBT /Overlock 1	8.0	83
3	<i>Sanguina nivaloides</i> and <i>Sanguina aurantia</i> gen. et spp. nov. (Chlorophyta): the taxonomy, phylogeny, biogeography and ecology of two newly recognised algae causing red and orange snow. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	80
4	<i>Chloromonas nivalis</i> subsp. <i>tatrae</i> , subsp. nov. (Chlamydomonadales, Chlorophyta): re-examination of a snow alga from the High Tatra Mountains (Slovakia). <i>Fottea</i> , 2018, 18, 1-18.	0.9	64
5	Identification of astaxanthin diglucoside diesters from snow alga <i>Chlamydomonas nivalis</i> by liquid chromatography–atmospheric pressure chemical ionization mass spectrometry. <i>Phytochemistry</i> , 2008, 69, 479-490.	2.9	61
6	Potential and limits of Raman spectroscopy for carotenoid detection in microorganisms: implications for astrobiology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140199.	3.4	61
7	Freshwater lakes of Ulu Peninsula, James Ross Island, north-east Antarctic Peninsula: origin, geomorphology and physical and chemical limnology. <i>Antarctic Science</i> , 2013, 25, 358-372.	0.9	60
8	Effect of nitrogen and phosphorus starvation on the polyunsaturated triacylglycerol composition, including positional isomer distribution, in the alga <i>Trachydiscus minutus</i> . <i>Phytochemistry</i> , 2011, 72, 2342-2351.	2.9	59
9	Pilot cultivation of the green alga <i>Monoraphidium</i> sp. producing a high content of polyunsaturated fatty acids in a low-temperature environment. <i>Algal Research</i> , 2017, 22, 160-165.	4.6	53
10	Diversity, ecology and biogeography of the freshwater diatom communities from Ulu Peninsula (James) Tj ETQq0 0 0 rgBT /Overlock 10	1.2	52
11	Green Cryosestic Algae. <i>Cellular Origin and Life in Extreme Habitats</i> , 2007, , 321-342.	0.3	47
12	Analyzing carotenoids of snow algae by Raman microspectroscopy and high-performance liquid chromatography. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 212, 262-271.	3.9	39
13	THREE NEW TERRESTRIAL DIATOM SPECIES FROM SEEPAGE AREAS ON JAMES ROSS ISLAND (ANTARCTIC) Tj ETQq1 1 0.784314 rgBT	1.2	37
14	Biological recovery of the Bohemian Forest lakes from acidification. <i>Biologia (Poland)</i> , 2006, 61, S453-S465.	1.5	36
15	Odd-numbered very-long-chain polyunsaturated fatty acids from the dinoflagellate <i>Amphidinium carterae</i> identified by atmospheric pressure chemical ionization liquid chromatography–mass spectrometry. <i>Phytochemistry</i> , 2008, 69, 2849-2855.	2.9	36
16	FOUR NEW NON-MARINE DIATOM TAXA FROM THE SUBANTARCTIC AND ANTARCTIC REGIONS. <i>Diatom Research</i> , 2010, 25, 431-443.	1.2	35
17	Benthic diatoms (Bacillariophyta) from seepages and streams on James Ross Island (NW Weddell Sea,) Tj ETQq1 1 0.784314 rgBT /Over	0.7	35
18	Unusual medium-chain polyunsaturated fatty acids from the snow alga <i>Chloromonas brevispina</i> . <i>Microbiological Research</i> , 2008, 163, 373-379.	5.3	32

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19	Lipidomic profiling of snow algae by ESI-MS and silver-LC/APCI-MS. <i>Phytochemistry</i> , 2014, 100, 34-42.	2.9	32
20	Ecophysiological and morphological comparison of two populations of <i>Chlamydomonas</i> sp. (Chlorophyta) causing red snow on ice-covered lakes in the High Tatras and Austrian Alps. <i>European Journal of Phycology</i> , 2018, 53, 230-243.	2.0	32
21	Tolerance of pennate diatoms (Bacillariophyceae) to experimental freezing: comparison of polar and temperate strains. <i>Phycologia</i> , 2019, 58, 382-392.	1.4	32
22	Temperature dependence of photosynthesis and thylakoid lipid composition in the red snow alga <i>Chlamydomonas</i> cf. <i>nivalis</i> (Chlorophyceae). <i>FEMS Microbiology Ecology</i> , 2014, 89, 303-315.	2.7	31
23	Phylogenetic position and taxonomy of three heterocytous cyanobacteria dominating the littoral of deglaciated lakes, James Ross Island, Antarctica. <i>Polar Biology</i> , 2012, 35, 759-774.	1.2	30
24	Description of five new species of the diatom genus <i>Luticola</i> (Bacillariophyta, Diadesmidaceae) found in lakes of James Ross Island (Maritime Antarctic Region). <i>Phytotaxa</i> , 2016, 27, 44.	0.3	30
25	Effect of starvation on the distribution of positional isomers and enantiomers of triacylglycerol in the diatom <i>Phaeodactylum tricornerutum</i> . <i>Phytochemistry</i> , 2012, 80, 17-27.	2.9	28
26	Quantification of pelagic filamentous microorganisms in aquatic environments using the line-intercept method. <i>FEMS Microbiology Ecology</i> , 2001, 38, 81-85.	2.7	27
27	Moss-inhabiting diatoms from two contrasting Maritime Antarctic islands. <i>Plant Ecology and Evolution</i> , 2014, 147, 67-84.	0.7	27
28	The unique environment of the most acidified permanently meromictic lake in the Czech Republic. <i>Limnologica</i> , 2013, 43, 417-426.	1.5	26
29	LC-MS/APCI identification of glucoside esters and diesters of astaxanthin from the snow alga <i>Chlamydomonas nivalis</i> including their optical stereoisomers. <i>Phytochemistry</i> , 2013, 88, 34-42.	2.9	26
30	Massive occurrence of heterotrophic filaments in acidified lakes: seasonal dynamics and composition. <i>FEMS Microbiology Ecology</i> , 2003, 46, 281-294.	2.7	24
31	Identification of very-long-chain polyunsaturated fatty acids from <i>Amphidinium carterae</i> by atmospheric pressure chemical ionization liquid chromatography-mass spectroscopy. <i>Phytochemistry</i> , 2008, 69, 2391-2399.	2.9	24
32	Constraints on the biological recovery of the Bohemian Forest lakes from acid stress. <i>Freshwater Biology</i> , 2016, 61, 376-395.	2.4	24
33	Arsenolipids in the green alga <i>Coccomyxa</i> (Trebouxiophyceae, Chlorophyta). <i>Phytochemistry</i> , 2019, 164, 243-251.	2.9	24
34	Production of structured triacylglycerols from microalgae. <i>Phytochemistry</i> , 2014, 104, 95-104.	2.9	23
35	Ecophysiology of <i>Chloromonas hindakii</i> sp. nov. (Chlorophyceae), Causing Orange Snow Blooms at Different Light Conditions. <i>Microorganisms</i> , 2019, 7, 434.	3.6	23
36	Unicellular versus Filamentous: The Glacial Alga <i>Ancylonema alaskana</i> comb. et stat. nov. and Its Ecophysiological Relatedness to <i>Ancylonema nordenskiöldii</i> (Zygnematophyceae, Streptophyta). <i>Microorganisms</i> , 2021, 9, 1103.	3.6	22

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37	The Arctic <i>Cylindrocapsa</i> (Zygnematophyceae, Streptophyta) Green Algae are Genetically and Morphologically Diverse and Exhibit Effective Accumulation of Polyphosphate. <i>Journal of Phycology</i> , 2020, 56, 217-232.	2.3	21
38	Colonization of Snow by Microorganisms as Revealed Using Miniature Raman Spectrometers—Possibilities for Detecting Carotenoids of Psychrophiles on Mars?. <i>Astrobiology</i> , 2016, 16, 913-924.	3.0	19
39	Late-Holocene palaeoenvironmental changes at Lake Esmeralda (Vega Island, Antarctic Peninsula) based on a multi-proxy analysis of laminated lake sediment. <i>Holocene</i> , 2019, 29, 1155-1175.	1.7	19
40	Evaluating amplicon high-throughput sequencing data of microalgae living in melting snow: improvements and limitations. <i>Fottea</i> , 2019, 19, 115-131.	0.9	19
41	A curious occurrence of <i>Hazenia broadyi</i> spec. nova in Antarctica and the review of the genus <i>Hazenia</i> (Ulotrichales, Chlorophyceae). <i>Polar Biology</i> , 2013, 36, 1281-1291.	1.2	18
42	A key role of aluminium in phosphorus availability, food web structure, and plankton dynamics in strongly acidified lakes. <i>Biologia (Poland)</i> , 2006, 61, S441-S451.	1.5	17
43	Identity, ecology and ecophysiology of planktic green algae dominating in ice-covered lakes on James Ross Island (northeastern Antarctic Peninsula). <i>Extremophiles</i> , 2017, 21, 187-200.	2.3	17
44	Lipidomic analysis of <i>Botryococcus</i> (Trebouxiophyceae, Chlorophyta) - Identification of lipid classes containing very long chain fatty acids by offline two-dimensional LC-tandem MS. <i>Phytochemistry</i> , 2018, 148, 29-38.	2.9	17
45	Ecology, cytology and phylogeny of the snow alga <i>Scotiella cryophila</i> K-1 (Chlamydomonadales, Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	17
46	Temperature dependence of production of structured triacylglycerols in the alga <i>Trachydiscus minutus</i> . <i>Phytochemistry</i> , 2015, 110, 37-45.	2.9	16
47	Lipidomic profile in three species of dinoflagellates (<i>Amphidinium carterae</i> , <i>Cystodinium</i> sp., and Tj ETQq1 1 0.784314 rgBT /Overlock	2.9	16
48	Phytoplankton of a mountain lake (Ladovské pleso, the Tatra Mountains, Slovakia): Seasonal development and first indications of a response to decreased acid deposition. <i>Biologia (Poland)</i> , 2006, 61, S91-S100.	1.5	15
49	Ecological implications of organic carbon dynamics in the traps of aquatic carnivorous <i>Utricularia</i> plants. <i>Functional Plant Biology</i> , 2011, 38, 583.	2.1	15
50	Effects of rare earth elements on growth rate, lipids, fatty acids and pigments in microalgae. <i>Phycological Research</i> , 2017, 65, 226-234.	1.6	15
51	Enantiomeric separation of triacylglycerols containing very long chain fatty acids. <i>Journal of Chromatography A</i> , 2018, 1557, 9-19.	3.7	15
52	Very-long-chain iso and anteiso branched fatty acids in N-acylphosphatidylethanolamines from a natural cyanobacterial mat of <i>Calothrix</i> sp.. <i>Phytochemistry</i> , 2009, 70, 655-663.	2.9	14
53	Habitat controls on limno-terrestrial diatom communities of Clearwater Mesa, James Ross Island, Maritime Antarctica. <i>Polar Biology</i> , 2019, 42, 1595-1613.	1.2	14
54	Two New <i>Kremastochrysopsis</i> species, <i>K. austriaca</i> sp. nov. and <i>K. americana</i> sp. nov. (Chrysophyceae) 1. <i>Journal of Phycology</i> , 2020, 56, 135-145.	2.3	14

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55	An Experimental Insight into Extracellular Phosphatases – Differential Induction of Cell-Specific Activity in Green Algae Cultured under Various Phosphorus Conditions. <i>Frontiers in Microbiology</i> , 2018, 9, 271.	3.5	13
56	Effect of salinity on the fatty acid and triacylglycerol composition of five haptophyte algae from the genera <i>Coccolithophora</i> , <i>Isochrysis</i> and <i>Prymnesium</i> determined by LC-MS/APCI. <i>Phytochemistry</i> , 2016, 130, 64-76.	2.9	12
57	Growth, fatty, and amino acid profiles of the soil alga <i>Vischeria</i> sp. E71.10 (Eustigmatophyceae) under different cultivation conditions. <i>Folia Microbiologica</i> , 2020, 65, 1017-1023.	2.3	12
58	Microalga-Mediated Tertiary Treatment of Municipal Wastewater: Removal of Nutrients and Pathogens. <i>Sustainability</i> , 2021, 13, 9554.	3.2	12
59	Burning coal spoil heaps as a new habitat for the extremophilic red alga <i>Galdieria sulphuraria</i> . <i>Fottea</i> , 2018, 18, 19-29.	0.9	12
60	Comparative analysis of temperature courses in Antarctic lakes of different morphology: Study from James Ross Island, Antarctica. <i>Czech Polar Reports</i> , 2011, 1, 78-87.	0.6	12
61	Cysts of the Snow Alga <i>Chloromonas krienitzii</i> (Chlorophyceae) Show Increased Tolerance to Ultraviolet Radiation and Elevated Visible Light. <i>Frontiers in Plant Science</i> , 2020, 11, 617250.	3.6	12
62	CELL-SPECIFIC EXTRACELLULAR PHOSPHATASE ACTIVITY OF DINOFLAGELLATE POPULATIONS IN ACIDIFIED MOUNTAIN LAKES1. <i>Journal of Phycology</i> , 2010, 46, 635-644.	2.3	11
63	Enantiomeric separation of triacylglycerols containing polyunsaturated fatty acids with 18 carbon atoms. <i>Journal of Chromatography A</i> , 2016, 1467, 261-269.	3.7	11
64	<i>Coccomyxa</i> : a dominant planktic alga in two acid lakes of different origin. <i>Extremophiles</i> , 2017, 21, 245-257.	2.3	11
65	Dispersal of lichens along a successional gradient after deglaciation of volcanic mesas on northern James Ross Island, Antarctic Peninsula. <i>Polar Biology</i> , 2018, 41, 2221-2232.	1.2	11
66	<i>Chloromonas arctica</i> sp. nov., a psychrotolerant alga from snow in the High Arctic (Chlamydomonadales, Chlorophyta). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 851-859.	1.7	11
67	<i>Lunachloris lukesovae</i> gen. et sp. nov. (Trebouxiophyceae, Chlorophyta), a novel coccoid green alga isolated from soil in South Bohemia, Czech Republic. <i>European Journal of Phycology</i> , 2017, 52, 281-291.	2.0	10
68	Lacustrine systems of Clearwater Mesa (James Ross Island, north-eastern Antarctic Peninsula): geomorphological setting and limnological characterization. <i>Antarctic Science</i> , 2019, 31, 169-188.	0.9	10
69	Phytobenthos and water quality of mountain streams in the Bohemian Forest under the influence of recreational activity. <i>Biologia (Poland)</i> , 2006, 61, S533-S542.	1.5	9
70	Forest Die-Back Modified Plankton Recovery from Acidic Stress. <i>Ambio</i> , 2014, 43, 207-217.	5.5	9
71	Plastid-encoded <i>rbcL</i> phylogeny suggests widespread distribution of <i>Galdieria phlegrea</i> (Cyanidiophyceae, Rhodophyta). <i>Nordic Journal of Botany</i> , 2018, 36, e01794.	0.5	9
72	Ecophysiological and ultrastructural characterisation of the circumpolar orange snow alga <i>Sanguina aurantia</i> compared to the cosmopolitan red snow alga <i>Sanguina nivaloides</i> (Chlorophyta). <i>Polar Biology</i> , 2021, 44, 105-117.	1.2	9

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73	First record of cryoseston in the Vitosha Mountains (Bulgaria). <i>Nova Hedwigia</i> , 2009, 88, 97-109.	0.4	8
74	Comparative analysis of triacylglycerols from different <i>Stichococcus</i> strains by RP-HPLC/APCI-MS and chiral HPLC. <i>Journal of Applied Phycology</i> , 2015, 27, 685-696.	2.8	8
75	Current distribution of <i>Branchinecta gaini</i> on James Ross Island and Vega Island. <i>Antarctic Science</i> , 2017, 29, 341-342.	0.9	8
76	<i>Chloromonas svalbardensis</i> n. sp. with Insights into the Phylogroup <i>Chloromonadina</i> (Chlorophyceae). <i>Journal of Eukaryotic Microbiology</i> , 2018, 65, 882-892.	1.7	8
77	Lipidomic analysis of two closely related strains of the microalga <i>Parietochloris</i> (Trebouxiophyceae, Tj ETQq1 1 0.784314 rgBT /Overlooked	4.6	7
78	Sphingolipidomics of Thermotolerant Yeasts. <i>Lipids</i> , 2018, 53, 627-639.	1.7	7
79	Overlooked diversity with terrestrial lifestyle in the predominantly freshwater and snow phylogroup <i>Chloromonadina</i> (Volvocales, Chlorophyceae). <i>European Journal of Phycology</i> , 2020, 55, 207-222.	2.0	7
80	Comparison of Diatom Paleo-Assemblages with Adjacent Limno-Terrestrial Communities on Vega Island, Antarctic Peninsula. <i>Water (Switzerland)</i> , 2020, 12, 1340.	2.7	7
81	Rapid screening of very long-chain fatty acids from microorganisms. <i>Journal of Chromatography A</i> , 2019, 1605, 460365.	3.7	6
82	The response of epilithic diatom assemblages to sewage pollution in mountain streams of the Czech Republic. <i>Plant Ecology and Evolution</i> , 2013, 146, 153-166.	0.7	5
83	Unusual biogenic calcite structures in two shallow lakes, James Ross Island, Antarctica. <i>Biogeosciences</i> , 2016, 13, 535-549.	3.3	5
84	Annual Cycle of Freshwater Diatoms in the High Arctic Revealed by Multiparameter Fluorescent Staining. <i>Microbial Ecology</i> , 2020, 80, 559-572.	2.8	5
85	Status and short-term environmental changes of lakes in the area of Devil's Bay, Vega Island, Antarctic Peninsula. <i>Antarctic Science</i> , 2021, 33, 150-164.	0.9	5
86	Sphingolipids of plant pathogenic fungi. <i>Plant Protection Science</i> , 2021, 57, 134-139.	1.4	5
87	Experimental freezing of freshwater pennate diatoms from polar habitats. <i>Protoplasma</i> , 2021, 258, 1213-1229.	2.1	5
88	Polydatin and its derivatives inhibit fatty acid desaturases in microorganisms. <i>European Journal of Lipid Science and Technology</i> , 2017, 119, 1600369.	1.5	4
89	<i>Discostella tatica</i> sp. nov. (Bacillariophyceae) - a small centric diatom from the Tatra Mountain lakes (Slovakia/Poland).. <i>Fottea</i> , 2012, 12, 1-12.	0.9	4
90	<i>Thorsmoerkia curvula</i> gen. et spec. nov. (Trebouxiophyceae, Chlorophyta), a semi-terrestrial microalga from Iceland exhibits high levels of unsaturated fatty acids. <i>Journal of Applied Phycology</i> , 2021, 33, 3671-3682.	2.8	3

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91	Chlorophyll content of Plešné Lake phytoplankton cells studied with image analysis. <i>Biologia (Poland)</i> , 2006, 61, S491-S498.	1.5	2
92	Short Note: Abundance of aerobic anoxygenic bacteria in freshwater lakes on James Ross Island, Antarctic Peninsula. <i>Antarctic Science</i> , 2016, 28, 101-102.	0.9	1
93	How to survive winter?. , 2020, , 101-125.		1
94	A molecular approach to identification of protonemata helps assess biodiversity of extremely acidic freshwaters. <i>Limnology</i> , 2019, 20, 225-231.	1.5	0
95	Editorial: Ice and Snow Algae. <i>Frontiers in Plant Science</i> , 2022, 13, 868467.	3.6	0