Alexandre M Anesio

List of Publications by Year
in descending order

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Version: 2024-02-01

112 papers	7,033 citations	41344 49 h-index	64796 79 g-index
123 all docs	123 docs citations	123 times ranked	5383 citing authors

#	Article	IF	Citations
1	Similar heterotrophic communities but distinct interactions supported by red and greenâ€snow algae in the Antarctic Peninsula. New Phytologist, 2022, 233, 1358-1368.	7.3	7
2	Dissolved Nitrogen Speciation and Concentration During Spring Thaw in the Greenland Ice Sheet Dark Zone: Evidence for Microbial Activity. Frontiers in Earth Science, 2022, 10, .	1.8	2
3	A genome and gene catalog of glacier microbiomes. Nature Biotechnology, 2022, 40, 1341-1348.	17.5	50
4	Glacier clear ice bands indicate englacial channel microbial distribution. Journal of Glaciology, 2021, 67, 811-823.	2.2	1
5	Effect of temperature and salinity on the growth and cell size of the first cultures of Gymnodinium aureolum from the Black Sea. Botanica Marina, 2021, 64, 201-210.	1.2	1
6	Macro-Nutrient Stoichiometry of Glacier Algae From the Southwestern Margin of the Greenland Ice Sheet. Frontiers in Plant Science, 2021, 12, 673614.	3.6	8
7	A Taxon-Wise Insight Into Rock Weathering and Nitrogen Fixation Functional Profiles of Proglacial Systems. Frontiers in Microbiology, 2021, 12, 627437.	3.5	7
8	Biological albedo reduction on ice sheets, glaciers, and snowfields. Earth-Science Reviews, 2021, 220, 103728.	9.1	30
9	Mineral phosphorus drives glacier algal blooms on the Greenland Ice Sheet. Nature Communications, 2021, 12, 570.	12.8	50
10	Cell membrane fatty acid and pigment composition of the psychrotolerant cyanobacterium Nodularia spumigena CHS1 isolated from Hopar glacier, Pakistan. Extremophiles, 2020, 24, 135-145.	2.3	6
11	Dinoflagellate cyst assemblages as indicators of environmental conditions and shipping activities in coastal areas of the Black and Caspian Seas. Regional Studies in Marine Science, 2020, 39, 101472.	0.7	3
12	Physiological Capabilities of Cryoconite Hole Microorganisms. Frontiers in Microbiology, 2020, 11, 1783.	3.5	18
13	Flexible genes establish widespread bacteriophage pan-genomes in cryoconite hole ecosystems. Nature Communications, 2020, 11, 4403.	12.8	36
14	Complete Genome and Plasmid Sequences of Salmonella enterica subsp. enterica Serovar Enteritidis PT1, Obtained from the Salmonella Reference Laboratory at Public Health England, Colindale, United Kingdom. Microbiology Resource Announcements, 2020, 9, .	0.6	4
15	Over Winter Microbial Processes in a Svalbard Snow Pack: An Experimental Approach. Frontiers in Microbiology, 2020, 11, 1029.	3.5	4
16	Temperature Driven Membrane Lipid Adaptation in Glacial Psychrophilic Bacteria. Frontiers in Microbiology, 2020, 11, 824.	3.5	58
17	Algal photophysiology drives darkening and melt of the Greenland Ice Sheet. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5694-5705.	7.1	81
18	Glacial ecosystems are essential to understanding biodiversity responses to glacier retreat. Nature Ecology and Evolution, 2020, 4, 686-687.	7.8	60

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19	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. Cryosphere, 2020, 14, 309-330.	3.9	78
20	Dissolved organic nutrients dominate melting surface ice of the Dark Zone (Greenland Ice Sheet). Biogeosciences, 2019, 16, 3283-3296.	3.3	33
21	Microbial Processing and Production of Aquatic Fluorescent Organic Matter in a Model Freshwater System. Water (Switzerland), 2019, 11, 10.	2.7	19
22	Bacterial Dynamics in Supraglacial Habitats of the Greenland Ice Sheet. Frontiers in Microbiology, 2019, 10, 1366.	3.5	23
23	Darkening of the Greenland Ice Sheet: Fungal Abundance and Diversity Are Associated With Algal Bloom. Frontiers in Microbiology, 2019, 10, 557.	3.5	58
24	Soil nitrogen response to shrub encroachment in a degrading semi-arid grassland. Biogeosciences, 2019, 16, 369-381.	3.3	13
25	Greenland melt drives continuous export of methane from the ice-sheet bed. Nature, 2019, 565, 73-77.	27.8	72
26	Prokaryotic Diversity and Distribution in Different Habitats of an Alpine Rock Glacier-Pond System. Microbial Ecology, 2019, 78, 70-84.	2.8	12
27	The future of genomics in polar and alpine cyanobacteria. FEMS Microbiology Ecology, 2018, 94, .	2.7	19
28	Ice algal bloom development on the surface of the Greenland Ice Sheet. FEMS Microbiology Ecology, 2018, 94, .	2.7	62
29	Distribution of soil nitrogen and nitrogenase activity in the forefield of a High Arctic receding glacier. Annals of Glaciology, 2018, 59, 87-94.	1.4	5
30	Linkages between geochemistry and microbiology in a proglacial terrain in the High Arctic. Annals of Glaciology, 2018, 59, 95-110.	1.4	11
31	Photoecology of the Antarctic cyanobacterium Leptolyngbya sp. BC1307 brought to light through community analysis, comparative genomics and in vitro photophysiology. Molecular Ecology, 2018, 27, 5279-5293.	3.9	14
32	Rapid development of anoxic niches in supraglacial ecosystems. Arctic, Antarctic, and Alpine Research, 2018, 50, .	1.1	20
33	Metagenomic insights into diazotrophic communities across Arctic glacier forefields. FEMS Microbiology Ecology, 2018, 94, .	2.7	36
34	The microbiome of glaciers and ice sheets. Npj Biofilms and Microbiomes, 2017, 3, 10.	6.4	215
35	The influence of Antarctic subglacial volcanism on the global iron cycle during the Last Glacial Maximum. Nature Communications, 2017, 8, 15425.	12.8	21
36	Microbially driven export of labile organic carbon from the Greenland ice sheet. Nature Geoscience, 2017, 10, 360-365.	12.9	75

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37	The in situ bacterial production of fluorescent organic matter; an investigation at a species level. Water Research, 2017, 125, 350-359.	11.3	83
38	Linking microbial diversity and functionality of arctic glacial surface habitats. Environmental Microbiology, 2017, 19, 551-565.	3.8	84
39	Microbial and Biogeochemical Dynamics in Glacier Forefields Are Sensitive to Century-Scale Climate and Anthropogenic Change. Frontiers in Earth Science, 2017, 5, .	1.8	11
40	Recovery of metallo-tolerant and antibiotic resistant psychrophilic bacteria from Siachen glacier, Pakistan. PLoS ONE, 2017, 12, e0178180.	2.5	39
41	Microbial dynamics in a High Arctic glacier forefield: a combined field, laboratory, and modelling approach. Biogeosciences, 2016, 13, 5677-5696.	3.3	36
42	Can the Bacterial Community of a High Arctic Glacier Surface Escape Viral Control?. Frontiers in Microbiology, 2016, 7, 956.	3.5	24
43	Polar Marine Microorganisms and Climate Change. Advances in Microbial Physiology, 2016, 69, 187-215.	2.4	45
44	Dissolved organic carbon transformations and microbial community response to variations in recharge waters in a shallow carbonate aquifer. Biogeochemistry, 2016, 129, 215-234.	3.5	23
45	The biogeography of red snow microbiomes and their role in melting arctic glaciers. Nature Communications, 2016, 7, 11968.	12.8	171
46	Bridging the divide: a model-data approach to Polar & Alpine Microbiology. FEMS Microbiology Ecology, 2016, 92, fiw015.	2.7	8
47	Assimilation of microbial and plant carbon by active prokaryotic and fungal populations in glacial forefields. Soil Biology and Biochemistry, 2016, 98, 30-41.	8.8	55
48	Planetary Protection and Mars Special Regionsâ€"A Suggestion for Updating the Definition. Astrobiology, 2016, 16, 119-125.	3.0	36
49	Genomic mechanisms for cold tolerance and production of exopolysaccharides in the Arctic cyanobacterium Phormidesmis priestleyi BC1401. BMC Genomics, 2016, 17, 533.	2.8	81
50	Experimental evidence that microbial activity lowers the albedo of glaciers. Geochemical Perspectives Letters, 2016, , 106-116.	5.0	43
51	Microbial diversity on Icelandic glaciers and ice caps. Frontiers in Microbiology, 2015, 6, 307.	3.5	88
52	Analysis of virus genomes from glacial environments reveals novel virus groups with unusual host interactions. Frontiers in Microbiology, 2015, 6, 656.	3.5	65
53	Multiple adaptations to polar and alpine environments within cyanobacteria: a phylogenomic and Bayesian approach. Frontiers in Microbiology, 2015, 6, 1070.	3.5	81
54	Integrated â€˜Omicsâ€™, Targeted Metabolite and Single-cell Analyses of Arctic Snow Algae Functionality and Adaptability. Frontiers in Microbiology, 2015, 6, 1323.	3.5	59

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55	SHIMMER (1.0): a novel mathematical model for microbial and biogeochemical dynamics in glacier forefield ecosystems. Geoscientific Model Development, 2015, 8, 3441-3470.	3.6	9
56	Stable microbial community composition on the Greenland Ice Sheet. Frontiers in Microbiology, 2015, 6, 193.	3.5	56
57	Microbial ecology of the cryosphere: sea ice and glacial habitats. Nature Reviews Microbiology, 2015, 13, 677-690.	28.6	344
58	Microbial community dynamics in the forefield of glaciers. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20140882.	2.6	115
59	Biological impact on Greenland's albedo. Nature Geoscience, 2014, 7, 691-691.	12.9	51
60	Spring thaw ionic pulses boost nutrient availability and microbial growth in entombed Antarctic Dry Valley cryoconite holes. Frontiers in Microbiology, 2014, 5, 694.	3.5	44
61	Coupled cryoconite ecosystem structure-function relationships are revealed by comparing bacterial communities in alpine and Arctic glaciers. FEMS Microbiology Ecology, 2014, 89, 222-237.	2.7	90
62	Variations of algal communities cause darkening of a Greenland glacier. FEMS Microbiology Ecology, 2014, 89, 402-414.	2.7	108
63	High diversity and potential origins of T4-type bacteriophages on the surface of Arctic glaciers. Extremophiles, 2013, 17, 861-870.	2.3	33
64	A distinctive fungal community inhabiting cryoconite holes on glaciers in Svalbard. Fungal Ecology, 2013, 6, 168-176.	1.6	66
65	Viral impacts on bacterial communities in Arctic cryoconite. Environmental Research Letters, 2013, 8, 045021.	5.2	43
66	Virus dynamics in a large epishelf lake (<scp>B</scp>eaver <scp>L</scp>ake, <scp>A</scp>ntarctica). Freshwater Biology, 2013, 58, 1484-1493.	2.4	8
67	Contrasts between the cryoconite and ice-marginal bacterial communities of Svalbard glaciers. Polar Research, 2013, 32, 19468.	1.6	46
68	An improved estimate of microbially mediated carbon fluxes from the Greenland ice sheet. Journal of Glaciology, 2012, 58, 1098-1108.	2.2	49
69	Controls on the autochthonous production and respiration of organic matter in cryoconite holes on high Arctic glaciers. Journal of Geophysical Research, 2012, 117, .	3.3	51
70	Methanogenic potential of Arctic and Antarctic subglacial environments with contrasting organic carbon sources. Global Change Biology, 2012, 18, 3332-3345.	9.5	82
71	Glaciers and ice sheets as a biome. Trends in Ecology and Evolution, 2012, 27, 219-225.	8.7	282
72	Photophysiology and albedo-changing potential of the ice algal community on the surface of the Greenland ice sheet. ISME Journal, 2012, 6, 2302-2313.	9.8	190

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73	Microbial cell budgets of an <scp>A</scp>rctic glacier surface quantified using flow cytometry. Environmental Microbiology, 2012, 14, 2998-3012.	3.8	65
74	Potential methane reservoirs beneath Antarctica. Nature, 2012, 488, 633-637.	27.8	184
75	Microbial nitrogen cycling on the Greenland Ice Sheet. Biogeosciences, 2012, 9, 2431-2442.	3.3	59
76	Environmental Controls on Microbial Abundance and Activity on the Greenland Ice Sheet: A Multivariate Analysis Approach. Microbial Ecology, 2012, 63, 74-84.	2.8	93
77	Prokaryotic diversity in sediments beneath two polar glaciers with contrasting organic carbon substrates. Extremophiles, 2012, 16, 255-265.	2.3	45
78	Nitrogen fixation on Arctic glaciers, Svalbard. Journal of Geophysical Research, 2011, 116, .	3.3	91
79	Are low temperature habitats hot spots of microbial evolution driven by viruses?. Trends in Microbiology, 2011, 19, 52-57.	7.7	83
80	Possible interactions between bacterial diversity, microbial activity and supraglacial hydrology of cryoconite holes in Svalbard. ISME Journal, 2011, 5, 150-160.	9.8	149
81	Measuring rates of gross photosynthesis and net community production in cryoconite holes: a comparison of field methods. Annals of Glaciology, 2010, 51, 153-162.	1.4	41
82	Benthic diatom flora in supraglacial habitats: a generic-level comparison. Annals of Glaciology, 2010, 51, 15-22.	1.4	23
83	The massâ€“area relationship within cryoconite holes and its implications for primary production. Annals of Glaciology, 2010, 51, 106-110.	1.4	43
84	Organic matter content and quality in supraglacial debris across the ablation zone of the Greenland ice sheet. Annals of Glaciology, 2010, 51, 1-8.	1.4	74
85	Carbon fluxes through bacterial communities on glacier surfaces. Annals of Glaciology, 2010, 51, 32-40.	1.4	104
86	Phosphatase activity and organic phosphorus turnover on a high Arctic glacier. Biogeosciences, 2009, 6, 913-922.	3.3	41
87	High microbial activity on glaciers: importance to the global carbon cycle. Global Change Biology, 2009, 15, 955-960.	9.5	280
88	Bacteriophage in polar inland waters. Extremophiles, 2008, 12, 167-175.	2.3	95
89	GLACIAL ECOSYSTEMS. Ecological Monographs, 2008, 78, 41-67.	5.4	435
90	Viral dynamics in cryoconite holes on a high Arctic glacier (Svalbard). Journal of Geophysical Research, 2007, 112, .	3.3	81

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91	A glacier respires: Quantifying the distribution and respiration CO₂ flux of cryoconite across an entire Arctic supraglacial ecosystem. Journal of Geophysical Research, 2007, 112, .	3.3	109
92	High viral infection rates in Antarctic and Arctic bacterioplankton. Environmental Microbiology, 2007, 9, 250-255.	3.8	65
93	Factors influencing bacterial dynamics along a transect from supraglacial runoff to proglacial lakes of a high Arctic glacieri. FEMS Microbiology Ecology, 2007, 59, 307-317.	2.7	103
94	Factors influencing bacterial dynamics along a transect from supraglacial runoff to proglacial lakes of a high Arctic glacieri. FEMS Microbiology Ecology, 2007, 59, 762-762.	2.7	6
95	Importance of biofilm as food source for shrimp (Farfantepenaeus paulensis) evaluated by stable isotopes (Î´13C and Î´15N). Journal of Experimental Marine Biology and Ecology, 2007, 347, 88-96.	1.5	69
96	Seasonal Viral Loop Dynamics in Two Large Ultraoligotrophic Antarctic Freshwater Lakes. Microbial Ecology, 2007, 53, 1-11.	2.8	62
97	Heterotrophic bacterial and viral dynamics in Arctic freshwaters: results from a field study and nutrient-temperature manipulation experiments. Polar Biology, 2007, 30, 1407-1415.	1.2	57
98	Stimulation of metazooplankton by photochemically modified dissolved organic matter. Limnology and Oceanography, 2006, 51, 101-108.	3.1	21
99	Eutrophication processes and trophic interactions in a shallow estuary: Preliminary results based on stable isotope analysis (Î´13C and Î´15N). Estuaries and Coasts, 2006, 29, 277-285.	2.2	43
100	Effect of Humic Substance Photodegradation on Bacterial Growth and Respiration in Lake Water. Applied and Environmental Microbiology, 2005, 71, 6267-6275.	3.1	130
101	Microbial food webs in the dark: independence of lake plankton from recent algal production. Aquatic Microbial Ecology, 2005, 38, 113-123.	1.8	37
102	Photochemical mineralization of dissolved organic carbon in lakes of differing pH and humic content. Archiv FÃ¼r Hydrobiologie, 2004, 160, 105-116.	1.1	25
103	Hydrogen peroxide distribution, production, and decay in boreal lakes. Canadian Journal of Fisheries and Aquatic Sciences, 2004, 61, 1520-1527.	1.4	56
104	Influence of Humic Substances on Bacterial and Viral Dynamics in Freshwaters. Applied and Environmental Microbiology, 2004, 70, 4848-4854.	3.1	36
105	The role of free and attached microorganisms in the decomposition of estuarine macrophyte detritus. Estuarine, Coastal and Shelf Science, 2003, 56, 197-201.	2.1	56
106	Increased photoreactivity of DOC by acidification: Implications for the carbon cycle in humic lakes. Limnology and Oceanography, 2003, 48, 735-744.	3.1	66
107	Photochemical reactivity of aquatic macrophyte leachates: abiotic transformations and bacterial response. Aquatic Microbial Ecology, 2001, 24, 187-195.	1.8	40
108	PRODUCTION OF INORGANIC CARBON FROM AQUATIC MACROPHYTES BY SOLAR RADIATION. Ecology, 1999, 80, 1852-1859.	3.2	55

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109	Decreased bacterial growth on vascular plant detritus due to photochemical modification. Aquatic Microbial Ecology, 1999, 17, 159-165.	1.8	38
110	Influence of the Hydrological Cycle on the Bacterioplankton of an Impacted Clear Water Amazonian Lake. Microbial Ecology, 1997, 34, 66-73.	2.8	33
111	Greenland bare-ice albedo from PROMICE automatic weather station measurements and Sentinel-3 satellite observations. Geological Survey of Denmark and Greenland Bulletin, 0, 47, .	2.0	14
112	Greenland Ice Sheet Surfaces Colonized by Microbial Communities Emit Volatile Organic Compounds. Frontiers in Microbiology, 0, 13, .	3.5	1