

Alexandre M Anesio

List of Publications by Year in descending order

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112
papers

7,033
citations

41258

49
h-index

64668

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 green snow algae in the Antarctic Peninsula. <i>New Phytologist</i> , 2022, 233, 1358-1368.	3.5	7
2	Dissolved Nitrogen Speciation and Concentration During Spring Thaw in the Greenland Ice Sheet Dark Zone: Evidence for Microbial Activity. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	2
3	A genome and gene catalog of glacier microbiomes. <i>Nature Biotechnology</i> , 2022, 40, 1341-1348.	9.4	50
4	Glacier clear ice bands indicate englacial channel microbial distribution. <i>Journal of Glaciology</i> , 2021, 67, 811-823.	1.1	1
5	Effect of temperature and salinity on the growth and cell size of the first cultures of <i>Gymnodinium aureolum</i> from the Black Sea. <i>Botanica Marina</i> , 2021, 64, 201-210.	0.6	1
6	Macro-Nutrient Stoichiometry of Glacier Algae From the Southwestern Margin of the Greenland Ice Sheet. <i>Frontiers in Plant Science</i> , 2021, 12, 673614.	1.7	8
7	A Taxon-Wise Insight Into Rock Weathering and Nitrogen Fixation Functional Profiles of Proglacial Systems. <i>Frontiers in Microbiology</i> , 2021, 12, 627437.	1.5	7
8	Biological albedo reduction on ice sheets, glaciers, and snowfields. <i>Earth-Science Reviews</i> , 2021, 220, 103728.	4.0	30
9	Mineral phosphorus drives glacier algal blooms on the Greenland Ice Sheet. <i>Nature Communications</i> , 2021, 12, 570.	5.8	50
10	Cell membrane fatty acid and pigment composition of the psychrotolerant cyanobacterium <i>Nodularia spumigena</i> CHS1 isolated from Hopar glacier, Pakistan. <i>Extremophiles</i> , 2020, 24, 135-145.	0.9	6
11	Dinoflagellate cyst assemblages as indicators of environmental conditions and shipping activities in coastal areas of the Black and Caspian Seas. <i>Regional Studies in Marine Science</i> , 2020, 39, 101472.	0.4	3
12	Physiological Capabilities of Cryoconite Hole Microorganisms. <i>Frontiers in Microbiology</i> , 2020, 11, 1783.	1.5	18
13	Flexible genes establish widespread bacteriophage pan-genomes in cryoconite hole ecosystems. <i>Nature Communications</i> , 2020, 11, 4403.	5.8	36
14	Complete Genome and Plasmid Sequences of <i>Salmonella enterica</i> subsp. <i>enterica</i> Serovar Enteritidis PT1, Obtained from the Salmonella Reference Laboratory at Public Health England, Colindale, United Kingdom. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	4
15	Over Winter Microbial Processes in a Svalbard Snow Pack: An Experimental Approach. <i>Frontiers in Microbiology</i> , 2020, 11, 1029.	1.5	4
16	Temperature Driven Membrane Lipid Adaptation in Glacial Psychrophilic Bacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 824.	1.5	58
17	Algal photophysiology drives darkening and melt of the Greenland Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 5694-5705.	3.3	81
18	Glacial ecosystems are essential to understanding biodiversity responses to glacier retreat. <i>Nature Ecology and Evolution</i> , 2020, 4, 686-687.	3.4	60

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19	Glacier algae accelerate melt rates on the south-western Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 309-330.	1.5	78
20	Dissolved organic nutrients dominate melting surface ice of the Dark Zone (Greenland Ice Sheet). <i>Biogeosciences</i> , 2019, 16, 3283-3296.	1.3	33
21	Microbial Processing and Production of Aquatic Fluorescent Organic Matter in a Model Freshwater System. <i>Water (Switzerland)</i> , 2019, 11, 10.	1.2	19
22	Bacterial Dynamics in Supraglacial Habitats of the Greenland Ice Sheet. <i>Frontiers in Microbiology</i> , 2019, 10, 1366.	1.5	23
23	Darkening of the Greenland Ice Sheet: Fungal Abundance and Diversity Are Associated With Algal Bloom. <i>Frontiers in Microbiology</i> , 2019, 10, 557.	1.5	58
24	Soil nitrogen response to shrub encroachment in a degrading semi-arid grassland. <i>Biogeosciences</i> , 2019, 16, 369-381.	1.3	13
25	Greenland melt drives continuous export of methane from the ice-sheet bed. <i>Nature</i> , 2019, 565, 73-77.	13.7	72
26	Prokaryotic Diversity and Distribution in Different Habitats of an Alpine Rock Glacier-Pond System. <i>Microbial Ecology</i> , 2019, 78, 70-84.	1.4	12
27	The future of genomics in polar and alpine cyanobacteria. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	19
28	Ice algal bloom development on the surface of the Greenland Ice Sheet. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	62
29	Distribution of soil nitrogen and nitrogenase activity in the forefield of a High Arctic receding glacier. <i>Annals of Glaciology</i> , 2018, 59, 87-94.	2.8	5
30	Linkages between geochemistry and microbiology in a proglacial terrain in the High Arctic. <i>Annals of Glaciology</i> , 2018, 59, 95-110.	2.8	11
31	Photoecology of the Antarctic cyanobacterium <i>Leptolyngbya</i> sp. BC1307 brought to light through community analysis, comparative genomics and in vitro photophysiology. <i>Molecular Ecology</i> , 2018, 27, 5279-5293.	2.0	14
32	Rapid development of anoxic niches in supraglacial ecosystems. <i>Arctic, Antarctic, and Alpine Research</i> , 2018, 50, .	0.4	20
33	Metagenomic insights into diazotrophic communities across Arctic glacier forefields. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	1.3	36
34	The microbiome of glaciers and ice sheets. <i>Npj Biofilms and Microbiomes</i> , 2017, 3, 10.	2.9	215
35	The influence of Antarctic subglacial volcanism on the global iron cycle during the Last Glacial Maximum. <i>Nature Communications</i> , 2017, 8, 15425.	5.8	21
36	Microbially driven export of labile organic carbon from the Greenland ice sheet. <i>Nature Geoscience</i> , 2017, 10, 360-365.	5.4	75

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37	The in situ bacterial production of fluorescent organic matter; an investigation at a species level. <i>Water Research</i> , 2017, 125, 350-359.	5.3	83
38	Linking microbial diversity and functionality of arctic glacial surface habitats. <i>Environmental Microbiology</i> , 2017, 19, 551-565.	1.8	84
39	Microbial and Biogeochemical Dynamics in Glacier Forefields Are Sensitive to Century-Scale Climate and Anthropogenic Change. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	11
40	Recovery of metallo-tolerant and antibiotic resistant psychrophilic bacteria from Siachen glacier, Pakistan. <i>PLoS ONE</i> , 2017, 12, e0178180.	1.1	39
41	Microbial dynamics in a High Arctic glacier forefield: a combined field, laboratory, and modelling approach. <i>Biogeosciences</i> , 2016, 13, 5677-5696.	1.3	36
42	Can the Bacterial Community of a High Arctic Glacier Surface Escape Viral Control?. <i>Frontiers in Microbiology</i> , 2016, 7, 956.	1.5	24
43	Polar Marine Microorganisms and Climate Change. <i>Advances in Microbial Physiology</i> , 2016, 69, 187-215.	1.0	45
44	Dissolved organic carbon transformations and microbial community response to variations in recharge waters in a shallow carbonate aquifer. <i>Biogeochemistry</i> , 2016, 129, 215-234.	1.7	23
45	The biogeography of red snow microbiomes and their role in melting arctic glaciers. <i>Nature Communications</i> , 2016, 7, 11968.	5.8	171
46	Bridging the divide: a model-data approach to Polar & Alpine Microbiology. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw015.	1.3	8
47	Assimilation of microbial and plant carbon by active prokaryotic and fungal populations in glacial forefields. <i>Soil Biology and Biochemistry</i> , 2016, 98, 30-41.	4.2	55
48	Planetary Protection and Mars Special Regionsâ€”A Suggestion for Updating the Definition. <i>Astrobiology</i> , 2016, 16, 119-125.	1.5	36
49	Genomic mechanisms for cold tolerance and production of exopolysaccharides in the Arctic cyanobacterium <i>Phormidismis priestleyi</i> BC1401. <i>BMC Genomics</i> , 2016, 17, 533.	1.2	81
50	Experimental evidence that microbial activity lowers the albedo of glaciers. <i>Geochemical Perspectives Letters</i> , 2016, , 106-116.	1.0	43
51	Microbial diversity on Icelandic glaciers and ice caps. <i>Frontiers in Microbiology</i> , 2015, 6, 307.	1.5	88
52	Analysis of virus genomes from glacial environments reveals novel virus groups with unusual host interactions. <i>Frontiers in Microbiology</i> , 2015, 6, 656.	1.5	65
53	Multiple adaptations to polar and alpine environments within cyanobacteria: a phylogenomic and Bayesian approach. <i>Frontiers in Microbiology</i> , 2015, 6, 1070.	1.5	81
54	Integrated â€”Omicsâ€™, Targeted Metabolite and Single-cell Analyses of Arctic Snow Algae Functionality and Adaptability. <i>Frontiers in Microbiology</i> , 2015, 6, 1323.	1.5	59

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55	SHIMMER (1.0): a novel mathematical model for microbial and biogeochemical dynamics in glacier forefield ecosystems. <i>Geoscientific Model Development</i> , 2015, 8, 3441-3470.	1.3	9
56	Stable microbial community composition on the Greenland Ice Sheet. <i>Frontiers in Microbiology</i> , 2015, 6, 193.	1.5	56
57	Microbial ecology of the cryosphere: sea ice and glacial habitats. <i>Nature Reviews Microbiology</i> , 2015, 13, 677-690.	13.6	344
58	Microbial community dynamics in the forefield of glaciers. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140882.	1.2	115
59	Biological impact on Greenland's albedo. <i>Nature Geoscience</i> , 2014, 7, 691-691.	5.4	51
60	Spring thaw ionic pulses boost nutrient availability and microbial growth in entombed Antarctic Dry Valley cryoconite holes. <i>Frontiers in Microbiology</i> , 2014, 5, 694.	1.5	44
61	Coupled cryoconite ecosystem structure-function relationships are revealed by comparing bacterial communities in alpine and Arctic glaciers. <i>FEMS Microbiology Ecology</i> , 2014, 89, 222-237.	1.3	90
62	Variations of algal communities cause darkening of a Greenland glacier. <i>FEMS Microbiology Ecology</i> , 2014, 89, 402-414.	1.3	108
63	High diversity and potential origins of T4-type bacteriophages on the surface of Arctic glaciers. <i>Extremophiles</i> , 2013, 17, 861-870.	0.9	33
64	A distinctive fungal community inhabiting cryoconite holes on glaciers in Svalbard. <i>Fungal Ecology</i> , 2013, 6, 168-176.	0.7	66
65	Viral impacts on bacterial communities in Arctic cryoconite. <i>Environmental Research Letters</i> , 2013, 8, 045021.	2.2	43
66	Virus dynamics in a large epishelf lake (Bever Lake, Antarctica). <i>Freshwater Biology</i> , 2013, 58, 1484-1493.	1.2	8
67	Contrasts between the cryoconite and ice-marginal bacterial communities of Svalbard glaciers. <i>Polar Research</i> , 2013, 32, 19468.	1.6	46
68	An improved estimate of microbially mediated carbon fluxes from the Greenland ice sheet. <i>Journal of Glaciology</i> , 2012, 58, 1098-1108.	1.1	49
69	Controls on the autochthonous production and respiration of organic matter in cryoconite holes on high Arctic glaciers. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	51
70	Methanogenic potential of Arctic and Antarctic subglacial environments with contrasting organic carbon sources. <i>Global Change Biology</i> , 2012, 18, 3332-3345.	4.2	82
71	Glaciers and ice sheets as a biome. <i>Trends in Ecology and Evolution</i> , 2012, 27, 219-225.	4.2	282
72	Photophysiology and albedo-changing potential of the ice algal community on the surface of the Greenland ice sheet. <i>ISME Journal</i> , 2012, 6, 2302-2313.	4.4	190

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73	Microbial cell budgets of an Arctic glacier surface quantified using flow cytometry. <i>Environmental Microbiology</i> , 2012, 14, 2998-3012.	1.8	65
74	Potential methane reservoirs beneath Antarctica. <i>Nature</i> , 2012, 488, 633-637.	13.7	184
75	Microbial nitrogen cycling on the Greenland Ice Sheet. <i>Biogeosciences</i> , 2012, 9, 2431-2442.	1.3	59
76	Environmental Controls on Microbial Abundance and Activity on the Greenland Ice Sheet: A Multivariate Analysis Approach. <i>Microbial Ecology</i> , 2012, 63, 74-84.	1.4	93
77	Prokaryotic diversity in sediments beneath two polar glaciers with contrasting organic carbon substrates. <i>Extremophiles</i> , 2012, 16, 255-265.	0.9	45
78	Nitrogen fixation on Arctic glaciers, Svalbard. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	91
79	Are low temperature habitats hot spots of microbial evolution driven by viruses?. <i>Trends in Microbiology</i> , 2011, 19, 52-57.	3.5	83
80	Possible interactions between bacterial diversity, microbial activity and supraglacial hydrology of cryoconite holes in Svalbard. <i>ISME Journal</i> , 2011, 5, 150-160.	4.4	149
81	Measuring rates of gross photosynthesis and net community production in cryoconite holes: a comparison of field methods. <i>Annals of Glaciology</i> , 2010, 51, 153-162.	2.8	41
82	Benthic diatom flora in supraglacial habitats: a generic-level comparison. <i>Annals of Glaciology</i> , 2010, 51, 15-22.	2.8	23
83	The mass-area relationship within cryoconite holes and its implications for primary production. <i>Annals of Glaciology</i> , 2010, 51, 106-110.	2.8	43
84	Organic matter content and quality in supraglacial debris across the ablation zone of the Greenland ice sheet. <i>Annals of Glaciology</i> , 2010, 51, 1-8.	2.8	74
85	Carbon fluxes through bacterial communities on glacier surfaces. <i>Annals of Glaciology</i> , 2010, 51, 32-40.	2.8	104
86	Phosphatase activity and organic phosphorus turnover on a high Arctic glacier. <i>Biogeosciences</i> , 2009, 6, 913-922.	1.3	41
87	High microbial activity on glaciers: importance to the global carbon cycle. <i>Global Change Biology</i> , 2009, 15, 955-960.	4.2	280
88	Bacteriophage in polar inland waters. <i>Extremophiles</i> , 2008, 12, 167-175.	0.9	95
89	GLACIAL ECOSYSTEMS. <i>Ecological Monographs</i> , 2008, 78, 41-67.	2.4	435
90	Viral dynamics in cryoconite holes on a high Arctic glacier (Svalbard). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	81

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91	A glacier respire: Quantifying the distribution and respiration CO ₂ flux of cryoconite across an entire Arctic supraglacial ecosystem. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	109
92	High viral infection rates in Antarctic and Arctic bacterioplankton. <i>Environmental Microbiology</i> , 2007, 9, 250-255.	1.8	65
93	Factors influencing bacterial dynamics along a transect from supraglacial runoff to proglacial lakes of a high Arctic glacier. <i>FEMS Microbiology Ecology</i> , 2007, 59, 307-317.	1.3	103
94	Factors influencing bacterial dynamics along a transect from supraglacial runoff to proglacial lakes of a high Arctic glacier. <i>FEMS Microbiology Ecology</i> , 2007, 59, 762-762.	1.3	6
95	Importance of biofilm as food source for shrimp (<i>Farfantepenaeus paulensis</i>) evaluated by stable isotopes (¹³ C and ¹⁵ N). <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 347, 88-96.	0.7	69
96	Seasonal Viral Loop Dynamics in Two Large Ultraoligotrophic Antarctic Freshwater Lakes. <i>Microbial Ecology</i> , 2007, 53, 1-11.	1.4	62
97	Heterotrophic bacterial and viral dynamics in Arctic freshwaters: results from a field study and nutrient-temperature manipulation experiments. <i>Polar Biology</i> , 2007, 30, 1407-1415.	0.5	57
98	Stimulation of metazooplankton by photochemically modified dissolved organic matter. <i>Limnology and Oceanography</i> , 2006, 51, 101-108.	1.6	21
99	Eutrophication processes and trophic interactions in a shallow estuary: Preliminary results based on stable isotope analysis (¹³ C and ¹⁵ N). <i>Estuaries and Coasts</i> , 2006, 29, 277-285.	1.0	43
100	Effect of Humic Substance Photodegradation on Bacterial Growth and Respiration in Lake Water. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6267-6275.	1.4	130
101	Microbial food webs in the dark: independence of lake plankton from recent algal production. <i>Aquatic Microbial Ecology</i> , 2005, 38, 113-123.	0.9	37
102	Photochemical mineralization of dissolved organic carbon in lakes of differing pH and humic content. <i>Archiv für Hydrobiologie</i> , 2004, 160, 105-116.	1.1	25
103	Hydrogen peroxide distribution, production, and decay in boreal lakes. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004, 61, 1520-1527.	0.7	56
104	Influence of Humic Substances on Bacterial and Viral Dynamics in Freshwaters. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4848-4854.	1.4	36
105	The role of free and attached microorganisms in the decomposition of estuarine macrophyte detritus. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 197-201.	0.9	56
106	Increased photoreactivity of DOC by acidification: Implications for the carbon cycle in humic lakes. <i>Limnology and Oceanography</i> , 2003, 48, 735-744.	1.6	66
107	Photochemical reactivity of aquatic macrophyte leachates: abiotic transformations and bacterial response. <i>Aquatic Microbial Ecology</i> , 2001, 24, 187-195.	0.9	40
108	PRODUCTION OF INORGANIC CARBON FROM AQUATIC MACROPHYTES BY SOLAR RADIATION. <i>Ecology</i> , 1999, 80, 1852-1859.	1.5	55

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109	Decreased bacterial growth on vascular plant detritus due to photochemical modification. <i>Aquatic Microbial Ecology</i> , 1999, 17, 159-165.	0.9	38
110	Influence of the Hydrological Cycle on the Bacterioplankton of an Impacted Clear Water Amazonian Lake. <i>Microbial Ecology</i> , 1997, 34, 66-73.	1.4	33
111	Greenland bare-ice albedo from PROMICE automatic weather station measurements and Sentinel-3 satellite observations. <i>Geological Survey of Denmark and Greenland Bulletin</i> , 0, 47, .	2.0	14
112	Greenland Ice Sheet Surfaces Colonized by Microbial Communities Emit Volatile Organic Compounds. <i>Frontiers in Microbiology</i> , 0, 13, .	1.5	1