

Belinda C Ferrari

List of Publications by Year in descending order

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82
papers

4,028
citations

136950

32
h-index

128289

60
g-index

88
all docs

88
docs citations

88
times ranked

5537
citing authors

#	ARTICLE	IF	CITATIONS
1	Out of Thin Air? Astrobiology and Atmospheric Chemotrophy. <i>Astrobiology</i> , 2022, , .	3.0	5
2	Polar soils exhibit distinct patterns in microbial diversity and dominant phylotypes. <i>Soil Biology and Biochemistry</i> , 2022, 166, 108550.	8.8	19
3	Soil substrate culturing approaches recover diverse members of Actinomycetota from desert soils of Herring Island, East Antarctica. <i>Extremophiles</i> , 2022, 26, .	2.3	4
4	Antarctic desert soil bacteria exhibit high novel natural product potential, evaluated through long-read genome sequencing and comparative genomics. <i>Environmental Microbiology</i> , 2021, 23, 3646-3664.	3.8	18
5	Highly abundant core taxa in the blow within and across captive bottlenose dolphins provide evidence for a temporally stable airway microbiota. <i>BMC Microbiology</i> , 2021, 21, 20.	3.3	5
6	The ecological roles of microbial lipopeptides: Where are we going?. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 1400-1413.	4.1	30
7	<i>Candidatus</i> Eremiobacterota, a metabolically and phylogenetically diverse terrestrial phylum with acid-tolerant adaptations. <i>ISME Journal</i> , 2021, 15, 2692-2707.	9.8	36
8	Persistence and resistance: survival mechanisms of <i>Candidatus</i> Dormibacterota from nutrient-poor Antarctic soils. <i>Environmental Microbiology</i> , 2021, 23, 4276-4294.	3.8	7
9	Microbial community analysis of biopiles in Antarctica provides evidence of successful hydrocarbon biodegradation and initial soil ecosystem recovery. <i>Environmental Pollution</i> , 2021, 290, 117977.	7.5	5
10	Applying microbial indicators of hydrocarbon toxicity to contaminated sites undergoing bioremediation on subantarctic Macquarie Island. <i>Environmental Pollution</i> , 2020, 259, 113780.	7.5	9
11	Response to Letter to Editor regarding Pudasaini et al. (2019), Characterisation of polar metabolites and evaluation of their potential toxicity in hydrocarbon contaminated soil elutriates. <i>Science of the Total Environment</i> , v689, 390-397. <i>Science of the Total Environment</i> , 2020, 712, 135470.	8.0	0
12	Discovery of an Abundance of Biosynthetic Gene Clusters in Shark Bay Microbial Mats. <i>Frontiers in Microbiology</i> , 2020, 11, 1950.	3.5	39
13	A novel real-world ecotoxicological dataset of pelagic microbial community responses to wastewater. <i>Scientific Data</i> , 2020, 7, 158.	5.3	3
14	Respiratory microbiota of humpback whales may be reduced in diversity and richness the longer they fast. <i>Scientific Reports</i> , 2020, 10, 12645.	3.3	15
15	Soil Microbiomes With the Genetic Capacity for Atmospheric Chemosynthesis Are Widespread Across the Poles and Are Associated With Moisture, Carbon, and Nitrogen Limitation. <i>Frontiers in Microbiology</i> , 2020, 11, 1936.	3.5	19
16	Lifting the veil on arid-to-hyperarid Antarctic soil microbiomes: a tale of two oases. <i>Microbiome</i> , 2020, 8, 37.	11.1	22
17	Distinct assembly mechanisms underlie similar biogeographical patterns of rare and abundant bacteria in Tibetan Plateau grassland soils. <i>Environmental Microbiology</i> , 2020, 22, 2261-2272.	3.8	77
18	Does sociality drive diversity and composition of airway microbiota in cetaceans?. <i>Environmental Microbiology Reports</i> , 2020, 12, 324-333.	2.4	5

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19	Characterization of polar metabolites and evaluation of their potential toxicity in hydrocarbon contaminated Antarctic soil elutriates. <i>Science of the Total Environment</i> , 2019, 689, 390-397.	8.0	7
20	Interannual comparison of core taxa and community composition of the blow microbiota from East Australian humpback whales. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	10
21	Communication within East Antarctic Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2019, 86, .	3.1	11
22	Harnessing long-read amplicon sequencing to uncover NRPS and Type I PKS gene sequence diversity in polar desert soils. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	25
23	<i>Exophiala macquariensis</i> sp. nov., a cold adapted black yeast species recovered from a hydrocarbon contaminated sub-Antarctic soil. <i>Fungal Biology</i> , 2019, 123, 151-158.	2.5	15
24	Microfluidic qPCR Enables High Throughput Quantification of Microbial Functional Genes but Requires Strict Curation of Primers. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	31
25	Life without water: how do bacteria generate biomass in desert ecosystems?. <i>Microbiology Australia</i> , 2018, 39, 28.	0.4	36
26	Circular linkages between soil biodiversity, fertility and plant productivity are limited to topsoil at the continental scale. <i>New Phytologist</i> , 2017, 215, 1186-1196.	7.3	103
27	New Insights into the Microbial Diversity of Polar Desert Soils: A Biotechnological Perspective. , 2017, , 169-183.		7
28	Atmospheric trace gases support primary production in Antarctic desert surface soil. <i>Nature</i> , 2017, 552, 400-403.	27.8	290
29	Microbial Diversity of Browning Peninsula, Eastern Antarctica Revealed Using Molecular and Cultivation Methods. <i>Frontiers in Microbiology</i> , 2017, 8, 591.	3.5	66
30	<i>Izhakiella australiensis</i> sp. nov. isolated from an Australian desert soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 4317-4322.	1.7	10
31	Specific global responses to N and Fe nutrition in toxic and non-toxic <i>Microcystis aeruginosa</i> . <i>Environmental Microbiology</i> , 2016, 18, 401-413.	3.8	27
32	Geological connectivity drives microbial community structure and connectivity in polar, terrestrial ecosystems. <i>Environmental Microbiology</i> , 2016, 18, 1834-1849.	3.8	51
33	Introducing BASE: the Biomes of Australian Soil Environments soil microbial diversity database. <i>GigaScience</i> , 2016, 5, 21.	6.4	204
34	Global and local-scale variation in bacterial community structure of snow from the Swiss and Australian Alps. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw132.	2.7	28
35	Novel Culturing Techniques Select for Heterotrophs and Hydrocarbon Degraders in a Subantarctic Soil. <i>Scientific Reports</i> , 2016, 6, 36724.	3.3	31
36	Legacy effects of soil moisture on microbial community structure and N ₂ O emissions. <i>Soil Biology and Biochemistry</i> , 2016, 95, 40-50.	8.8	175

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37	Microbial diversity at Mitchell Peninsula, Eastern Antarctica: a potential biodiversity "hotspot" Polar Biology, 2016, 39, 237-249.	1.2	101
38	Community fingerprinting in a sequencing world. FEMS Microbiology Ecology, 2014, 89, 316-330.	2.7	140
39	Soil fertility is associated with fungal and bacterial richness, whereas pH is associated with community composition in polar soil microbial communities. Soil Biology and Biochemistry, 2014, 78, 10-20.	8.8	243
40	Bacterial Targets as Potential Indicators of Diesel Fuel Toxicity in Subantarctic Soils. Applied and Environmental Microbiology, 2014, 80, 4021-4033.	3.1	73
41	The ecological controls on the prevalence of candidate division TM7 in polar regions. Frontiers in Microbiology, 2014, 5, 345.	3.5	32
42	Insights into the distribution and abundance of the ubiquitous Candidatus Saccharibacteria phylum following tag pyrosequencing. Scientific Reports, 2014, 4, 3957.	3.3	66
43	Microbiology of Eutrophic (Ornithogenic and Hydrocarbon-Contaminated) Soil. , 2014, , 91-113.		3
44	Three-color Cytometry for the Simultaneous Detection of the Cryptosporidium Species Contributing to the Majority of Human Cryptosporidiosis. Public Health Frontier, 2013, 2, 103-108.	0.1	0
45	Flow Cytometry in Environmental Microbiology: A Rapid Approach for the Isolation of Single Cells for Advanced Molecular Biology Analysis. Methods in Molecular Biology, 2012, 881, 3-26.	0.9	9
46	Capturing Greater 16S rRNA Gene Sequence Diversity within the Domain Bacteria. Applied and Environmental Microbiology, 2012, 78, 5938-5941.	3.1	51
47	Comparative Protein Expression in Different Strains of the Bloom-forming Cyanobacterium Microcystis aeruginosa. Molecular and Cellular Proteomics, 2011, 10, M110.003749.	3.8	54
48	Recovering Greater Fungal Diversity from Pristine and Diesel Fuel Contaminated Sub-Antarctic Soil Through Cultivation Using Both a High and a Low Nutrient Media Approach. Frontiers in Microbiology, 2011, 2, 217.	3.5	57
49	Detection of environmental microorganisms with a bead-based assay and quantum dots. International Journal of Biomedical Nanoscience and Nanotechnology, 2011, 2, 75.	0.1	0
50	Iron uptake and toxin synthesis in the bloom-forming <i>Microcystis aeruginosa</i> under iron limitation. Environmental Microbiology, 2011, 13, 1064-1077.	3.8	123
51	Molecular Epidemiology and Spatial Distribution of a Waterborne Cryptosporidiosis Outbreak in Australia. Applied and Environmental Microbiology, 2011, 77, 7766-7771.	3.1	62
52	Molecular Epidemiology, Spatiotemporal Analysis, and Ecology of Sporadic Human Cryptosporidiosis in Australia. Applied and Environmental Microbiology, 2011, 77, 7757-7765.	3.1	87
53	Terminal Restriction Fragment Length Polymorphism for Identification of <i>Cryptosporidium</i> Species in Human Feces. Applied and Environmental Microbiology, 2009, 75, 108-112.	3.1	27
54	Time-gated flow cytometry: an ultra-high selectivity method to recover ultra-rare-event 1/4-targets in high-background biosamples. Journal of Biomedical Optics, 2009, 14, 024023.	2.6	33

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55	Development of a Two-Color Fluorescence In Situ Hybridization Technique for Species-Level Identification of Human-Infectious <i>Cryptosporidium</i> spp. <i>Applied and Environmental Microbiology</i> , 2009, 75, 5996-5998.	3.1	20
56	Glycoprotein 60 diversity in <i>C. hominis</i> and <i>C. parvum</i> causing human cryptosporidiosis in NSW, Australia. <i>Experimental Parasitology</i> , 2009, 122, 124-127.	1.2	68
57	Applications of flow cytometry in environmental microbiology and biotechnology. <i>Extremophiles</i> , 2009, 13, 389-401.	2.3	41
58	Cultivation of Fastidious Bacteria by Viability Staining and Micromanipulation in a Soil Substrate Membrane System. <i>Applied and Environmental Microbiology</i> , 2009, 75, 3352-3354.	3.1	39
59	Cultivating previously uncultured soil bacteria using a soil substrate membrane system. <i>Nature Protocols</i> , 2008, 3, 1261-1269.	12.0	85
60	In vitro effects of noradrenaline on Sydney rock oyster (<i>Saccostrea glomerata</i>) hemocytes. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2008, 151, 691-697.	1.8	22
61	Potential Use of Quantum Dots in Flow Cytometry. <i>International Journal of Molecular Sciences</i> , 2008, 9, 2622-2638.	4.1	28
62	Development of fluorescent in situ hybridisation for <i>Cryptosporidium</i> detection reveals zoonotic and anthroponotic transmission of sporadic cryptosporidiosis in Sydney. <i>Journal of Microbiological Methods</i> , 2008, 75, 535-539.	1.6	18
63	UV LED excited time-gated luminescence flow cytometry: evaluation for rare-event particle counting. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
64	Quantum dots as alternatives to organic fluorophores for <i>Cryptosporidium</i> detection using conventional flow cytometry and specific monoclonal antibodies: Lessons learned. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007, 71A, 265-271.	1.5	36
65	Closed-tube DNA extraction using a thermostable proteinase is highly sensitive, capable of single parasite detection. <i>Biotechnology Letters</i> , 2007, 29, 1831-1837.	2.2	18
66	Applying fluorescence based technology to the recovery and isolation of <i>Cryptosporidium</i> and <i>Giardia</i> from industrial wastewater streams. <i>Water Research</i> , 2006, 40, 541-548.	11.3	17
67	Quantitative and qualitative comparisons of <i>Cryptosporidium</i> faecal purification procedures for the isolation of oocysts suitable for proteomic analysis. <i>International Journal for Parasitology</i> , 2006, 36, 811-819.	3.1	43
68	Catalyzed Reporter Deposition-Fluorescence In Situ Hybridization Allows for Enrichment-Independent Detection of Microcolony-Forming Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2006, 72, 918-922.	3.1	42
69	A Naturally Occurring Novel Allele of <i>Escherichia coli</i> Outer Membrane Protein A Reduces Sensitivity to Bacteriophage. <i>Applied and Environmental Microbiology</i> , 2006, 72, 7930-7932.	3.1	25
70	Ecological Advantages of Autolysis during the Development and Dispersal of <i>Pseudoalteromonas tunicata</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5414-5420.	3.1	77
71	Microcolony Cultivation on a Soil Substrate Membrane System Selects for Previously Uncultured Soil Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8714-8720.	3.1	204
72	Recovery of GFP-Labeled Bacteria for Culturing and Molecular Analysis after Cell Sorting Using a Benchtop Flow Cytometer. <i>Microbial Ecology</i> , 2004, 48, 239-245.	2.8	35

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73	Analysis-only detection of Giardia by combining immunomagnetic separation and two-color flow cytometry. <i>Cytometry</i> , 2003, 51A, 79-86.	1.8	18
74	A fluorescent natural product for ultra sensitive detection of proteins in oneâ€dimensional and twoâ€dimensional gel electrophoresis. <i>Proteomics</i> , 2003, 3, 2273-2288.	2.2	146
75	Application of the novel fluorescent dye Beljian red to the differentiation of Giardia cysts. <i>Journal of Microbiological Methods</i> , 2003, 52, 133-135.	1.6	12
76	Detection of Oxytetracycline Production by <i>Streptomyces rimosus</i> in Soil Microcosms by Combining Whole-Cell Biosensors and Flow Cytometry. <i>Applied and Environmental Microbiology</i> , 2001, 67, 239-244.	3.1	77
77	A novel two-color flow cytometric assay for the detection of <i>Cryptosporidium</i> in environmental water samples. <i>Cytometry</i> , 2000, 41, 216-222.	1.8	37
78	Fluorescence staining and flow cytometry for monitoring microbial cells. <i>Journal of Immunological Methods</i> , 2000, 243, 191-210.	1.4	216
79	An Immunoglobulin G1 Monoclonal Antibody Highly Specific to the Wall of <i>Cryptosporidium</i> Oocysts. <i>Vaccine Journal</i> , 2000, 7, 745-750.	2.6	25
80	Why do cytotoxic T lymphocytes fail to eliminate hepatitis C virus? Lessons from studies using major histocompatibility complex class I peptide tetramers. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 1085-1092.	4.0	28
81	A novel two-color flow cytometric assay for the detection of <i>Cryptosporidium</i> in environmental water samples. <i>Cytometry</i> , 2000, 41, 216-22.	1.8	8
82	Comparison of <i>Cryptosporidium</i> -specific and <i>Giardia</i> -specific monoclonal antibodies for monitoring water samples. <i>Water Research</i> , 1999, 33, 1611-1617.	11.3	29