

Charles K Lee

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

2,472
citations

201658

27
h-index

233409

45
g-index

56
all docs

56
docs citations

56
times ranked

3382
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique Geothermal Chemistry Shapes Microbial Communities on Mt. Erebus, Antarctica. <i>Frontiers in Microbiology</i> , 2022, 13, 836943.	3.5	3
2	Microbial Succession under Freeze-Thaw Events and Its Potential for Hydrocarbon Degradation in Nutrient-Amended Antarctic Soil. <i>Microorganisms</i> , 2021, 9, 609.	3.6	4
3	Geochemically Defined Space-for-Time Transects Successfully Capture Microbial Dynamics Along Lacustrine Chronosequences in a Polar Desert. <i>Frontiers in Microbiology</i> , 2021, 12, 783767.	3.5	5
4	A core phyllosphere microbiome exists across distant populations of a tree species indigenous to New Zealand. <i>PLoS ONE</i> , 2020, 15, e0237079.	2.5	20
5	Abiotic factors influence patterns of bacterial diversity and community composition in the Dry Valleys of Antarctica. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	23
6	Detection and community-level identification of microbial mats in the McMurdo Dry Valleys using drone-based hyperspectral reflectance imaging. <i>Antarctic Science</i> , 2020, 32, 367-381.	0.9	15
7	Understanding the Response of Nitrifying Communities to Disturbance in the McMurdo Dry Valleys, Antarctica. <i>Microorganisms</i> , 2020, 8, 404.	3.6	13
8	The distribution and relative ecological roles of autotrophic and heterotrophic diazotrophs in the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2020, 96, .	2.7	20
9	Title is missing!. , 2020, 15, e0237079.		0
10	Title is missing!. , 2020, 15, e0237079.		0
11	Title is missing!. , 2020, 15, e0237079.		0
12	Title is missing!. , 2020, 15, e0237079.		0
13	Title is missing!. , 2020, 15, e0237079.		0
14	Title is missing!. , 2020, 15, e0237079.		0
15	Laboratory rearing of huhu, <i>Prionoplus reticularis</i> (Cerambycidae): insights into the gut microbiome. <i>New Zealand Journal of Zoology</i> , 2019, 46, 1-12.	1.1	0
16	Actinobacteria and Cyanobacteria Diversity in Terrestrial Antarctic Microenvironments Evaluated by Culture-Dependent and Independent Methods. <i>Frontiers in Microbiology</i> , 2019, 10, 1018.	3.5	50
17	Airborne microbial transport limitation to isolated Antarctic soil habitats. <i>Nature Microbiology</i> , 2019, 4, 925-932.	13.3	114
18	Nematodes in a polar desert reveal the relative role of biotic interactions in the coexistence of soil animals. <i>Communications Biology</i> , 2019, 2, 63.	4.4	34

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19	Biotic interactions are an unexpected yet critical control on the complexity of an abiotically driven polar ecosystem. <i>Communications Biology</i> , 2019, 2, 62.	4.4	42
20	Biases in the metabarcoding of plant pathogens using rust fungi as a model system. <i>MicrobiologyOpen</i> , 2019, 8, e780.	3.0	16
21	Processes driving soil CO ₂ temporal variability in Antarctic Dry Valleys. <i>Geoderma</i> , 2019, 337, 871-879.	5.1	5
22	Evidence of plant and animal communities at exposed and subglacial (cave) geothermal sites in Antarctica. <i>Polar Biology</i> , 2018, 41, 417-421.	1.2	48
23	Stochastic and Deterministic Effects of a Moisture Gradient on Soil Microbial Communities in the McMurdo Dry Valleys of Antarctica. <i>Frontiers in Microbiology</i> , 2018, 9, 2619.	3.5	41
24	Microbial biogeography of 925 geothermal springs in New Zealand. <i>Nature Communications</i> , 2018, 9, 2876.	12.8	163
25	Bacterial bioclusters relate to hydrochemistry in New Zealand groundwater. <i>FEMS Microbiology Ecology</i> , 2018, 94, .	2.7	10
26	Methods for the extraction, storage, amplification and sequencing of DNA from environmental samples. , 2018, , .		58
27	Draft Genome Sequence of Uncultured Upland Soil Cluster <i>Gammaproteobacteria</i> Gives Molecular Insights into High-Affinity Methanotrophy. <i>Genome Announcements</i> , 2017, 5, .	0.8	18
28	Global Diversity of Desert Hypolithic Cyanobacteria. <i>Frontiers in Microbiology</i> , 2017, 8, 867.	3.5	61
29	Temporal, regional and geochemical drivers of microbial community variation in the melt ponds of the Ross Sea region, Antarctica. <i>Polar Biology</i> , 2016, 39, 267-282.	1.2	6
30	Benthic microbial communities of coastal terrestrial and ice shelf Antarctic meltwater ponds. <i>Frontiers in Microbiology</i> , 2015, 6, 485.	3.5	28
31	Application of an unmanned aerial vehicle in spatial mapping of terrestrial biology and human disturbance in the McMurdo Dry Valleys, East Antarctica. <i>Polar Biology</i> , 2015, 38, 573-578.	1.2	54
32	Evidence of global-scale aeolian dispersal and endemism in isolated geothermal microbial communities of Antarctica. <i>Nature Communications</i> , 2014, 5, 3875.	12.8	76
33	The ecological dichotomy of ammonia-oxidizing archaea and bacteria in the hyper-arid soils of the Antarctic Dry Valleys. <i>Frontiers in Microbiology</i> , 2014, 5, 515.	3.5	34
34	Influence of soil properties on archaeal diversity and distribution in the McMurdo Dry Valleys, Antarctica. <i>FEMS Microbiology Ecology</i> , 2014, 89, 347-359.	2.7	44
35	Characterization of Chasmoendolithic Community in Miers Valley, McMurdo Dry Valleys, Antarctica. <i>Microbial Ecology</i> , 2014, 68, 351-359.	2.8	77
36	The Distribution and Identity of Edaphic Fungi in the McMurdo Dry Valleys. <i>Biology</i> , 2014, 3, 466-483.	2.8	44

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37	Methanol oxidation by temperate soils and environmental determinants of associated methylotrophs. <i>ISME Journal</i> , 2013, 7, 1051-1064.	9.8	33
38	First year-round record of Antarctic Dry Valley soil CO ₂ flux. <i>Soil Biology and Biochemistry</i> , 2013, 66, 193-196.	8.8	15
39	Determination of Enzyme Thermal Parameters for Rational Enzyme Engineering and Environmental/Evolutionary Studies. <i>Methods in Molecular Biology</i> , 2013, 996, 219-230.	0.9	2
40	Local and regional influences over soil microbial metacommunities in the Transantarctic Mountains. <i>Ecosphere</i> , 2013, 4, 1-24.	2.2	45
41	Diversity and Distributional Patterns of Ciliates in Guaymas Basin Hydrothermal Vent Sediments. <i>Journal of Eukaryotic Microbiology</i> , 2013, 60, 433-447.	1.7	32
42	Diffuse flow environments within basalt- and sediment-based hydrothermal vent ecosystems harbor specialized microbial communities. <i>Frontiers in Microbiology</i> , 2013, 4, 182.	3.5	44
43	The Inter-Valley Soil Comparative Survey: the ecology of Dry Valley edaphic microbial communities. <i>ISME Journal</i> , 2012, 6, 1046-1057.	9.8	273
44	Rapid microbial response to the presence of an ancient relic in the Antarctic Dry Valleys. <i>Nature Communications</i> , 2012, 3, 660.	12.8	69
45	Groundtruthing Next-Gen Sequencing for Microbial Ecology—Biases and Errors in Community Structure Estimates from PCR Amplicon Pyrosequencing. <i>PLoS ONE</i> , 2012, 7, e44224.	2.5	145
46	Ancient origins determine global biogeography of hot and cold desert cyanobacteria. <i>Nature Communications</i> , 2011, 2, 163.	12.8	203
47	The molecular basis of the effect of temperature on enzyme activity. <i>Biochemical Journal</i> , 2010, 425, 353-360.	3.7	107
48	Adaptations to Submarine Hydrothermal Environments Exemplified by the Genome of <i>Nautilia profundicola</i> . <i>PLoS Genetics</i> , 2009, 5, e1000362.	3.5	126
49	The effect of temperature on enzyme activity: new insights and their implications. <i>Extremophiles</i> , 2008, 12, 51-59.	2.3	88
50	Enzymic Approach to Eurythermalism of <i>Alvinella pompejana</i> and Its Episymbionts. <i>Applied and Environmental Microbiology</i> , 2008, 74, 774-782.	3.1	9
51	Metagenome analysis of an extreme microbial symbiosis reveals eurythermal adaptation and metabolic flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 17516-17521.	7.1	111
52	Eurythermalism and the temperature dependence of enzyme activity. <i>FASEB Journal</i> , 2007, 21, 1934-1941.	0.5	29
53	New parameters controlling the effect of temperature on enzyme activity. <i>Biochemical Society Transactions</i> , 2007, 35, 1543-1546.	3.4	13