

Peter Casper

List of Publications by Year in descending order

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57
papers

2,403
citations

186209

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206029

48
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61
all docs

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docs citations

61
times ranked

3275
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial methane pattern in a deep freshwater lake: Relation to water depth and topography. <i>Science of the Total Environment</i> , 2021, 764, 142829.	3.9	10
2	Energy Flux Paths in Lakes and Reservoirs. <i>Water (Switzerland)</i> , 2021, 13, 3270.	1.2	5
3	Geochemical focusing and sequestration of manganese during eutrophication of Lake Stechlin (NE) Tj ETQq1 1 0.784314 rgBT /Overland	1.7	19
4	Long-Read Amplicon Sequencing of Nitric Oxide Dismutase (nod) Genes Reveal Diverse Oxygenic Denitrifiers in Agricultural Soils and Lake Sediments. <i>Microbial Ecology</i> , 2020, 80, 243-247.	1.4	12
5	Diel variation of CH ₄ and CO ₂ dynamics in two contrasting temperate lakes. <i>Inland Waters</i> , 2020, 10, 333-347.	1.1	13
6	Methane emissions from contrasting urban freshwaters: Rates, drivers, and a whole-city footprint. <i>Global Change Biology</i> , 2019, 25, 4234-4243.	4.2	44
7	Old sins have long shadows: climate change weakens efficiency of trophic coupling of phyto- and zooplankton in a deep oligo-mesotrophic lowland lake (Stechlin, Germany) – a causality analysis. <i>Hydrobiologia</i> , 2019, 831, 101-117.	1.0	29
8	Greenhouse gas emissions from a semi-arid tropical reservoir in northeastern Brazil. <i>Regional Environmental Change</i> , 2018, 18, 1901-1912.	1.4	12
9	Water management and aquatic ecosystem services of a tropical reservoir (Itaparica, São Francisco,) Tj ETQq1 1 0.784314 rgBT /Overland	1.4	18
10	Methane production increases with warming and carbon additions to incubated sediments from a semiarid reservoir. <i>Inland Waters</i> , 2018, 8, 109-121.	1.1	13
11	Eutrophication exacerbates the impact of climate warming on lake methane emission. <i>Science of the Total Environment</i> , 2018, 636, 411-419.	3.9	95
12	Phytoplankton response to experimental thermocline deepening: a mesocosm experiment. <i>Hydrobiologia</i> , 2018, 805, 259-271.	1.0	8
13	Assessment of methane and carbon dioxide emissions in two sub-basins of a small acidic bog lake artificially divided 30 years ago. <i>Freshwater Biology</i> , 2018, 63, 1534-1549.	1.2	8
14	Ubiquitous and significant anaerobic oxidation of methane in freshwater lake sediments. <i>Water Research</i> , 2018, 144, 332-340.	5.3	84
15	Shifts among Eukaryota, Bacteria, and Archaea define the vertical organization of a lake sediment. <i>Microbiome</i> , 2017, 5, 41.	4.9	60
16	Effects of artificial thermocline deepening on sedimentation rates and microbial processes in the sediment. <i>Hydrobiologia</i> , 2017, 799, 65-81.	1.0	10
17	Thermocline deepening boosts ecosystem metabolism: evidence from a large-scale lake enclosure experiment simulating a summer storm. <i>Global Change Biology</i> , 2017, 23, 1448-1462.	4.2	55
18	Spatial and temporal patterns of benthic diatom flora in Lake Stechlin, Germany. <i>Turkish Journal of Botany</i> , 2017, 41, 211-222.	0.5	5

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19	Effects of increasing temperatures on methane concentrations and methanogenesis during experimental incubation of sediments from oligotrophic and mesotrophic lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1394-1406.	1.3	53
20	The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 601-617.	2.8	32
21	Proteomic evidence of methanotrophy in methane-enriched hypolimnetic lake water. <i>Limnology and Oceanography</i> , 2016, 61, S91.	1.6	6
22	Coincidence of sedimentation peaks with diatom blooms, wind, and calcite precipitation measured in high resolution by a multi-trap. <i>Hydrobiologia</i> , 2016, 763, 329-344.	1.0	12
23	Spatial- and niche segregation of DCM-forming cyanobacteria in Lake Stechlin (Germany). <i>Hydrobiologia</i> , 2016, 764, 229-240.	1.0	30
24	Enhancing Surface Methane Fluxes from an Oligotrophic Lake: Exploring the Microbubble Hypothesis. <i>Environmental Science & Technology</i> , 2015, 49, 873-880.	4.6	69
25	Presence of Potential Toxin-Producing Cyanobacteria in an Oligo-Mesotrophic Lake in Baltic Lake District, Germany: An Ecological, Genetic and Toxicological Survey. <i>Toxins</i> , 2014, 6, 2912-2931.	1.5	29
26	Stable carbon isotope biogeochemistry of propionate and acetate in methanogenic soils and lake sediments. <i>Organic Geochemistry</i> , 2014, 73, 1-7.	0.9	37
27	Viriobenthos in aquatic sediments: variability in abundance and production and impact on the C-cycle. <i>Aquatic Sciences</i> , 2013, 75, 571-579.	0.6	15
28	Cyanobacterial diversity in the hot spring, pelagic and benthic habitats of a tropical soda lake. <i>FEMS Microbiology Ecology</i> , 2013, 85, 389-401.	1.3	71
29	Chemolithotrophic nitrate-dependent Fe(II)-oxidizing nature of actinobacterial subdivision lineage TM3. <i>ISME Journal</i> , 2013, 7, 1582-1594.	4.4	30
30	Using stable isotope probing to obtain a targeted metatranscriptome of aerobic methanotrophs in lake sediment. <i>Environmental Microbiology Reports</i> , 2013, 5, 757-764.	1.0	60
31	Assessing the Effect of Litter Species on the Dynamic of Bacterial and Fungal Communities during Leaf Decomposition in Microcosm by Molecular Techniques. <i>PLoS ONE</i> , 2013, 8, e84613.	1.1	20
32	<i>Phormidium etoshii</i> sp. nov. (Oscillatoriales, Cyanobacteria) described from the Etosha Pan, Namibia, based on morphological, molecular and ecological features.. <i>Fottea</i> , 2013, 13, 235-244.	0.4	18
33	Effects of pelagic food web structure and nutrient concentration on anaerobic methane metabolism in lake sediments. <i>Aquatic Sciences</i> , 2012, 74, 133-142.	0.6	1
34	DNA-, rRNA- and mRNA-based stable isotope probing of aerobic methanotrophs in lake sediment. <i>Environmental Microbiology</i> , 2011, 13, 1153-1167.	1.8	115
35	Phylogenetic relationship and divergence among planktonic strains of <i>Arthrospira</i> (Oscillatoriales, Cyanobacteria) of African, Asian and American origin deduced by 16S-23S ITS and phycocyanin operon sequences. <i>Phycologia</i> , 2010, 49, 361-372.	0.6	45
36	Diffusive fluxes of CH ₄ and CO ₂ across the water-air interface in the eutrophic Lake Dagow, northeast Germany. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2009, 30, 874-877.	0.1	4

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37	Molecular detection of uncultured cyanobacteria and aminotransferase domains for cyanotoxin production in sediments of different Kenyan lakes. <i>FEMS Microbiology Ecology</i> , 2009, 68, 340-350.	1.3	20
38	Characterization of stable isotope fractionation during methane production in the sediment of a eutrophic lake, Lake Dagow, Germany. <i>Limnology and Oceanography</i> , 2009, 54, 457-471.	1.6	65
39	Vegetation cover of forest, shrub and pasture strongly influences soil bacterial community structure as revealed by 16S rRNA gene T-RFLP analysis. <i>FEMS Microbiology Ecology</i> , 2008, 64, 449-458.	1.3	41
40	Characterization of methanogenic Archaea and stable isotope fractionation during methane production in the profundal sediment of an oligotrophic lake (Lake Stechlin, Germany). <i>Limnology and Oceanography</i> , 2007, 52, 1393-1406.	1.6	82
41	16S rRNA gene analyses of bacterial community structures in the soils of evergreen broad-leaved forests in south-west China. <i>FEMS Microbiology Ecology</i> , 2006, 58, 247-259.	1.3	98
42	Carbon Isotope Fractionation during Acetoclastic Methanogenesis by <i>Methanosaeta concilii</i> in Culture and a Lake Sediment. <i>Applied and Environmental Microbiology</i> , 2006, 72, 5648-5652.	1.4	98
43	Vertical distribution of structure and function of the methanogenic archaeal community in Lake Dagow sediment. <i>Environmental Microbiology</i> , 2005, 7, 1139-1149.	1.8	135
44	P-immobilisation and phosphatase activities in lake sediment following treatment with nitrate and iron. <i>Limnologica</i> , 2005, 35, 102-108.	0.7	25
45	Sediment treatment with a nitrate-storing compound to reduce phosphorus release. <i>Water Research</i> , 2005, 39, 494-500.	5.3	57
46	Organic matter composition in the sediment of three Brazilian coastal lagoons: district of Macaã, Rio de Janeiro (Brazil). <i>Anais Da Academia Brasileira De Ciencias</i> , 2004, 76, 29-47.	0.3	13
47	Methane in an acidic bog lake: The influence of peat in the catchment on the biogeochemistry of methane. <i>Aquatic Sciences</i> , 2003, 65, 36-46.	0.6	45
48	Methanogenesis in an impacted and two dystrophic coastal lagoons (Macaã, Brazil). <i>Brazilian Archives of Biology and Technology</i> , 2002, 45, 195-202.	0.5	11
49	Methanogenic archaeal community in the sediment of an artificially partitioned acidic bog lake. <i>FEMS Microbiology Ecology</i> , 2002, 42, 119-129.	1.3	43
50	Methanogenic archaeal community in the sediment of an artificially partitioned acidic bog lake. <i>FEMS Microbiology Ecology</i> , 2002, 42, 119-129.	1.3	5
51	Bacterioplankton abundance, biomass and production in a Brazilian coastal lagoon and in two German lakes. <i>Anais Da Academia Brasileira De Ciencias</i> , 2001, 73, 39-49.	0.3	11
52	Mechanisms of phosphorus release from the bottom sediment of the oligotrophic Lake Stechlin: Importance of the permanently oxic sediment surface. <i>Fundamental and Applied Limnology</i> , 2001, 151, 203-219.	0.4	34
53	Fluxes of methane and carbon dioxide from a small productive lake to the atmosphere. <i>Biogeochemistry</i> , 2000, 49, 1-19.	1.7	244
54	Factors influencing methane production in an oligotrophic and in a eutrophic German lake. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2000, 27, 1441-1445.	0.1	0

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55	Heterotrophic bacterial production in a Brazilian humic coastal lagoon. Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology, 2000, 27, 1866-1869.	0.1	0
56	Different methods for extracting bacteria from freshwater sediment and a simple method to measure bacterial production in sediment samples. Journal of Microbiological Methods, 2000, 41, 249-257.	0.7	50
57	Phosphorus-binding forms in the sediment of an oligotrophic and an eutrophic hardwater lake of the Baltic Lake District (Germany). Water Science and Technology, 1998, 37, 51-58.	1.2	182