

Carsten J Schubert

List of Publications by Year in descending order

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128
papers

9,741
citations

57758

44
h-index

39675

94
g-index

141
all docs

141
docs citations

141
times ranked

9366
citing authors

#	ARTICLE	IF	CITATIONS
1	A marine microbial consortium apparently mediating anaerobic oxidation of methane. <i>Nature</i> , 2000, 407, 623-626.	27.8	2,636
2	Linking crenarchaeal and bacterial nitrification to anammox in the Black Sea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7104-7109.	7.1	493
3	Nitrogen and carbon isotopic composition of marine and terrestrial organic matter in Arctic Ocean sediments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2001, 48, 789-810.	1.4	356
4	Anaerobic ammonium oxidation in a tropical freshwater system (Lake Tanganyika). <i>Environmental Microbiology</i> , 2006, 8, 1857-1863.	3.8	278
5	Aquatic Terrestrial Linkages Along a Braided-River: Riparian Arthropods Feeding on Aquatic Insects. <i>Ecosystems</i> , 2005, 8, 748-759.	3.4	246
6	Tracing bottom water oxygenation with sedimentary Mn/Fe ratios in Lake Zurich, Switzerland. <i>Chemical Geology</i> , 2013, 352, 125-133.	3.3	207
7	Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. <i>Biogeosciences</i> , 2014, 11, 1215-1259.	3.3	175
8	Anaerobic oxidation of methane and sulfate reduction along the Chilean continental margin. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2767-2779.	3.9	173
9	Evidence for anaerobic oxidation of methane in sediments of a freshwater system (Lago di Cadagno). <i>FEMS Microbiology Ecology</i> , 2011, 76, 26-38.	2.7	166
10	Stable Carbon Isotopic Fractionations Associated with Inorganic Carbon Fixation by Anaerobic Ammonium-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3785-3788.	3.1	151
11	Stable phytoplankton community structure in the Arabian Sea over the past 200,000 years. <i>Nature</i> , 1998, 394, 563-566.	27.8	149
12	<i>Crenothrix</i> are major methane consumers in stratified lakes. <i>ISME Journal</i> , 2017, 11, 2124-2140.	9.8	146
13	Hypoxia causes preservation of labile organic matter and changes seafloor microbial community composition (Black Sea). <i>Science Advances</i> , 2017, 3, e1601897.	10.3	145
14	Nutrient regime shift in the western North Atlantic indicated by compound-specific $\delta^{15}\text{N}$ of deep-sea gorgonian corals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1011-1015.	7.1	142
15	Methane oxidation coupled to oxygenic photosynthesis in anoxic waters. <i>ISME Journal</i> , 2015, 9, 1991-2002.	9.8	135
16	Methane Emissions from a Small Wind Shielded Lake Determined by Eddy Covariance, Flux Chambers, Anchored Funnel, and Boundary Model Calculations: A Comparison. <i>Environmental Science & Technology</i> , 2012, 46, 4515-4522.	10.0	132
17	Anaerobic oxidation of methane in an iron-rich Danish freshwater lake sediment. <i>Limnology and Oceanography</i> , 2013, 58, 546-554.	3.1	132
18	Microaerobic bacterial methane oxidation in the chemocline and anoxic water column of deep south-Alpine Lake Lugano (Switzerland). <i>Limnology and Oceanography</i> , 2014, 59, 311-324.	3.1	129

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19	Light-Dependent Aerobic Methane Oxidation Reduces Methane Emissions from Seasonally Stratified Lakes. <i>PLoS ONE</i> , 2015, 10, e0132574.	2.5	120
20	Co-occurrence of denitrification and nitrogen fixation in a meromictic lake, Lake Cadagno (Switzerland). <i>Environmental Microbiology</i> , 2009, 11, 1945-1958.	3.8	119
21	Aerobic gammaproteobacterial methanotrophs mitigate methane emissions from oxic and anoxic lake waters. <i>Limnology and Oceanography</i> , 2016, 61, S101.	3.1	119
22	Oxidation and emission of methane in a monomictic lake (Rotsee, Switzerland). <i>Aquatic Sciences</i> , 2010, 72, 455-466.	1.5	117
23	Aerobic and anaerobic methanotrophs in the Black Sea water column. <i>Environmental Microbiology</i> , 2006, 8, 1844-1856.	3.8	115
24	Identification and carbon isotope composition of a novel branched GDGT isomer in lake sediments: Evidence for lacustrine branched GDGT production. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 154, 118-129.	3.9	110
25	A key metabolic gene for recurrent freshwater colonization and radiation in fishes. <i>Science</i> , 2019, 364, 886-889.	12.6	109
26	Anaerobic ammonium oxidation (anammox) bacteria and sulfide-dependent denitrifiers coexist in the water column of a meromictic south-alpine lake. <i>Limnology and Oceanography</i> , 2013, 58, 1-12.	3.1	104
27	Distribution of branched and isoprenoid tetraether lipids in an oligotrophic and a eutrophic Swiss lake: Insights into sources and GDGT-based proxies. <i>Organic Geochemistry</i> , 2010, 41, 822-832.	1.8	99
28	Methane sources and sinks in Lake Kivu. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	96
29	Redox-dependent niche differentiation provides evidence for multiple bacterial sources of glycerol tetraether lipids in lakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10926-10931.	7.1	94
30	Bloom of a denitrifying methanotroph, <i>Candidatus</i> <i>Methylomirabilis limnetica</i> TM , in a deep stratified lake. <i>Environmental Microbiology</i> , 2018, 20, 2598-2614.	3.8	87
31	Effects of decarbonation treatments on $\delta^{13}C$ values in marine sediments. <i>Marine Chemistry</i> , 2000, 72, 55-59.	2.3	85
32	Amino acid biogeo- and stereochemistry in coastal Chilean sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2970-2989.	3.9	74
33	A biogeochemical study of sediments from the eutrophic Lake Lugano and the oligotrophic Lake Brienz, Switzerland. <i>Organic Geochemistry</i> , 2009, 40, 1100-1114.	1.8	72
34	Impact of recent lake eutrophication on microbial community changes as revealed by high resolution lipid biomarkers in Rotsee (Switzerland). <i>Organic Geochemistry</i> , 2012, 49, 86-95.	1.8	66
35	Intensive cryptic microbial iron cycling in the low iron water column of the meromictic Lake Cadagno. <i>Environmental Microbiology</i> , 2016, 18, 5288-5302.	3.8	65
36	Sources of glycerol dialkyl glycerol tetraethers (GDGTs) in catchment soils, water column and sediments of Lake Rotsee (Switzerland) – Implications for the application of GDGT-based proxies for lakes. <i>Organic Geochemistry</i> , 2014, 66, 164-173.	1.8	64

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37	Alkenone distribution in Lake Van sediment over the last 27000 years: influence of temperature and haptophyte species composition. <i>Quaternary Science Reviews</i> , 2014, 104, 53-62.	3.0	62
38	Greenhouse gas emissions (CO ₂ , CH ₄ , and N ₂ O) from several perialpine and alpine hydropower reservoirs by diffusion and loss in turbines. <i>Aquatic Sciences</i> , 2012, 74, 619-635.	1.5	61
39	Anaerobic endosymbiont generates energy for ciliate host by denitrification. <i>Nature</i> , 2021, 591, 445-450.	27.8	53
40	Chlorin Index: A new parameter for organic matter freshness in sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	52
41	Eutrophication as a driver of microbial community structure in lake sediments. <i>Environmental Microbiology</i> , 2020, 22, 3446-3462.	3.8	51
42	Fatty acid biogeochemistry of sediments from the Chilean coastal upwelling region: Sources and diagenetic changes. <i>Organic Geochemistry</i> , 2006, 37, 626-647.	1.8	50
43	Tracing the methane cycle with lipid biomarkers in Lake Rotsee (Switzerland). <i>Organic Geochemistry</i> , 2014, 66, 174-181.	1.8	49
44	Terrestrial-type nitrogen-fixing symbiosis between seagrass and a marine bacterium. <i>Nature</i> , 2021, 600, 105-109.	27.8	48
45	Organic matter composition and sulfate reduction rates in sediments off Chile. <i>Organic Geochemistry</i> , 2000, 31, 351-361.	1.8	47
46	Sulfate reduction controlled by organic matter availability in deep sediment cores from the saline, alkaline Lake Van (Eastern Anatolia, Turkey). <i>Frontiers in Microbiology</i> , 2013, 4, 209.	3.5	47
47	How depositional conditions control input, composition, and degradation of organic matter in sediments from the Chilean coastal upwelling region. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1513-1527.	3.9	46
48	Distribution of glycerol dialkyl glycerol tetraether lipids in the water column of Lake Tanganyika. <i>Organic Geochemistry</i> , 2012, 53, 34-37.	1.8	44
49	Sources and fate of amino sugars in coastal Peruvian sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2229-2237.	3.9	41
50	Methane oxidation pathways and associated methanotrophic communities in the water column of a tropical lake. <i>Limnology and Oceanography</i> , 2015, 60, 553-572.	3.1	41
51	Methanotrophy under Versatile Conditions in the Water Column of the Ferruginous Meromictic Lake La Cruz (Spain). <i>Frontiers in Microbiology</i> , 2016, 7, 1762.	3.5	41
52	New organic matter degradation proxies: Valid in lake systems?. <i>Limnology and Oceanography</i> , 2004, 49, 2023-2033.	3.1	39
53	Organic matter reactivity indicators in sediments of the St. Lawrence Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 102-103, 36-47.	2.1	39
54	Anthropogenic and natural methane fluxes in Switzerland synthesized within a spatially explicit inventory. <i>Biogeosciences</i> , 2014, 11, 1941-1959.	3.3	39

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55	Bacteria-induced mixing in natural waters. <i>Geophysical Research Letters</i> , 2017, 44, 9424-9432.	4.0	38
56	Origin and significance of diagenetic concretions in sediments of Laguna Potrok Aike, southern Argentina. <i>Journal of Paleolimnology</i> , 2013, 50, 275-291.	1.6	37
57	Rapid atmospheric transport and large-scale deposition of recently synthesized plant waxes. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 599-617.	3.9	36
58	Sulfur cycling in oceanic oxygen minimum zones. <i>Limnology and Oceanography</i> , 2021, 66, 2360-2392.	3.1	34
59	500,000 Years of Environmental History in Eastern Anatolia: The PALEOVAN Drilling Project. <i>Scientific Drilling</i> , 0, 14, 18-29.	0.6	34
60	Methanotrophic microbial communities associated with bubble plumes above gas seeps in the Black Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	33
61	Spatial variations in surface water methane super-saturation and emission in Lake Lugano, southern Switzerland. <i>Aquatic Sciences</i> , 2015, 77, 535-545.	1.5	32
62	Biogeochemistry of particulate organic matter from lakes of different trophic levels in Switzerland. <i>Organic Geochemistry</i> , 2009, 40, 441-454.	1.8	31
63	Water mass denitrification during the latest Permian extinction in the Sverdrup Basin, Arctic Canada. <i>Geology</i> , 2013, 41, 167-170.	4.4	30
64	Submicromolar Oxygen Profiles at the Oxic-Anoxic Boundary of Temperate Lakes. <i>Aquatic Geochemistry</i> , 2014, 20, 39-57.	1.3	30
65	Inorganic carbon fixation by sulfate-reducing bacteria in the Black Sea water column. <i>Environmental Microbiology</i> , 2007, 9, 3019-3024.	3.8	28
66	Bacterial methanotrophs drive the formation of a seasonal anoxic benthic nepheloid layer in an alpine lake. <i>Limnology and Oceanography</i> , 2014, 59, 1410-1420.	3.1	27
67	Porewater salinity reveals past lake-level changes in Lake Van, the Earth's largest soda lake. <i>Scientific Reports</i> , 2017, 7, 313.	3.3	27
68	Dark aerobic sulfide oxidation by anoxygenic phototrophs in anoxic waters. <i>Environmental Microbiology</i> , 2019, 21, 1611-1626.	3.8	27
69	Contribution of bacterial cells to lacustrine organic matter based on amino sugars and d-amino acids. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 159-172.	3.9	26
70	Differential N ₂ O dynamics in two oxygen-deficient lake basins revealed by stable isotope and isotopomer distributions. <i>Limnology and Oceanography</i> , 2016, 61, 1735-1749.	3.1	26
71	Maleimides in recent sediments – Using chlorophyll degradation products for palaeoenvironmental reconstructions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 119, 248-263.	3.9	25
72	Anoxic chlorophyll maximum enhances local organic matter remineralization and nitrogen loss in Lake Tanganyika. <i>Nature Communications</i> , 2021, 12, 830.	12.8	24

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73	Purple sulfur bacteria fix N ₂ via molybdenum-nitrogenase in a low molybdenum Proterozoic ocean analogue. <i>Nature Communications</i> , 2021, 12, 4774.	12.8	24
74	Bacterial Chitin Hydrolysis in Two Lakes with Contrasting Trophic Statuses. <i>Applied and Environmental Microbiology</i> , 2012, 78, 695-704.	3.1	23
75	Oxygenic primary production below the oxycline and its importance for redox dynamics. <i>Aquatic Sciences</i> , 2016, 78, 727-741.	1.5	23
76	U-Th chronology and formation controls of methane-derived authigenic carbonates from the Hola trough seep area, northern Norway. <i>Chemical Geology</i> , 2017, 470, 164-179.	3.3	23
77	What prevents outgassing of methane to the atmosphere in Lake Tanganyika?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22
78	Environmental variations in a semi-enclosed embayment (Amvrakikos Gulf, Greece) –“ reconstructions based on benthic foraminifera abundance and lipid biomarker pattern. <i>Biogeosciences</i> , 2012, 9, 5081-5094.	3.3	22
79	Amino acid nitrogen isotopic composition patterns in lacustrine sedimenting matter. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 328-338.	3.9	22
80	Carbon and methane cycling in arsenic-contaminated aquifers. <i>Water Research</i> , 2021, 200, 117300.	11.3	22
81	Amino acid and amino sugar transformation during sedimentation in lacustrine systems. <i>Organic Geochemistry</i> , 2012, 50, 26-35.	1.8	21
82	Spatial heterogeneity of benthic methane dynamics in the subaquatic canyons of the Rhone River Delta (Lake Geneva). <i>Aquatic Sciences</i> , 2014, 76, 89-101.	1.5	21
83	Biomarkers in Lake Van sediments reveal dry conditions in eastern Anatolia during 110.000–10.000 years BP. <i>Geochimica, Geophysics, Geosystems</i> , 2017, 18, 571-583.	2.5	20
84	Methane oxidation in the waters of a humic-rich boreal lake stimulated by photosynthesis, nitrite, Fe(III) and humics. <i>Biogeosciences</i> , 2021, 18, 3087-3101.	3.3	20
85	Lipid compound classes display diverging hydrogen isotope responses in lakes along a nutrient gradient. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 237, 103-119.	3.9	18
86	Amino acid and amino sugar compositional changes during in vitro degradation of algal organic matter indicate rapid bacterial re-synthesis. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 283, 67-84.	3.9	18
87	Why are they still there? A model of accumulation and decay of organic prehistoric cultural deposits. <i>Journal of Archaeological Science</i> , 2015, 61, 277-286.	2.4	16
88	Hydrocarbon sources of cold seeps off the VesterÅlen coast, northern Norway. <i>Chemical Geology</i> , 2015, 417, 371-382.	3.3	16
89	Sources and turnover of organic carbon and methane in fjord and shelf sediments off northern Norway. <i>Geochimica, Geophysics, Geosystems</i> , 2016, 17, 4011-4031.	2.5	14
90	Redox gradients at the low oxygen boundary of lakes. <i>Aquatic Sciences</i> , 2015, 77, 81-93.	1.5	13

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91	Distributions and compound-specific isotopic signatures of sedimentary chlorins reflect the composition of photoautotrophic communities and their carbon and nitrogen sources in Swiss lakes and the Black Sea. <i>Chemical Geology</i> , 2016, 443, 198-209.	3.3	13
92	Greenhouse gas emissions from Baltic coastal lakes. <i>Science of the Total Environment</i> , 2021, 755, 143500.	8.0	13
93	Diagenesis of amino compounds in water column and sediment of Lake Baikal. <i>Organic Geochemistry</i> , 2018, 115, 67-77.	1.8	12
94	Implications of river intrusion and convective mixing on the spatial and temporal variability of under-ice CO ₂ . <i>Inland Waters</i> , 2019, 9, 162-176.	2.2	12
95	Nitrogen removal processes in lakes of different trophic states from on-site measurements and historic data. <i>Aquatic Sciences</i> , 2021, 83, 37.	1.5	12
96	Influence of Methanogenic Populations in Holocene Lacustrine Sediments Revealed by Clone Libraries and Fatty Acid Biogeochemistry. <i>Geomicrobiology Journal</i> , 2014, 31, 285-298.	2.0	11
97	Mineralization pathways of organic matter deposited in a river-lake transition of the Rhone River Delta, Lake Geneva. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 370-380.	3.5	11
98	Improved Method for the Quantification of Methane Concentrations in Unconsolidated Lake Sediments. <i>Environmental Science & Technology</i> , 2016, 50, 7047-7055.	10.0	11
99	Conserved fatty acid profiles and lipid metabolic pathways in a tropical reef fish exposed to ocean warming – An adaptation mechanism of tolerant species?. <i>Science of the Total Environment</i> , 2021, 782, 146738.	8.0	11
100	Comparison of different solid phase extraction sorbents for the qualitative assessment of dissolved organic nitrogen in freshwater samples using FT-ICR-MS. <i>Journal of Limnology</i> , 0, , .	1.1	10
101	Beaver effects on macroinvertebrate assemblages in two streams with contrasting morphology. <i>Science of the Total Environment</i> , 2020, 722, 137899.	8.0	10
102	Microbial Nitrogen Transformation Potential in Sediments of Two Contrasting Lakes Is Spatially Structured but Seasonally Stable. <i>MSphere</i> , 2022, 7, e0101321.	2.9	10
103	Compound-specific carbon and nitrogen isotopic compositions of chlorophyll a and its derivatives reveal the eutrophication history of Lake Zurich (Switzerland). <i>Chemical Geology</i> , 2016, 443, 210-219.	3.3	9
104	Minor methane emissions from an Alpine hydropower reservoir based on monitoring of diel and seasonal variability. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1278-1291.	3.5	9
105	Methane transport and sources in an Arctic deep-water cold seep offshore NW Svalbard (Vestnesa) Tj ETQq1 1 0.784314 rgBJ /Overlo	1.4	9
106	Interplay of community dynamics, temperature, and productivity on the hydrogen isotope signatures of lipid biomarkers. <i>Biogeosciences</i> , 2017, 14, 3979-3994.	3.3	8
107	Does rapid glacial recession affect feeding habits of alpine stream insects?. <i>Freshwater Biology</i> , 2021, 66, 114-129.	2.4	7
108	Carbon sources of benthic fauna in temperate lakes across multiple trophic states. <i>Biogeosciences</i> , 2021, 18, 4369-4388.	3.3	7

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109	Ancient and Modern Geochemical Signatures in the 13,500-Year Sedimentary Record of Lake Cadagno. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	7
110	Carbon flows in eutrophic Lake Rotsee: a ¹³ C-labelling experiment. <i>Biogeochemistry</i> , 2016, 131, 147-162.	3.5	6
111	From medieval land clearing to industrial development: 800 years of human-impact history in the Joux Valley (Swiss Jura). <i>Holocene</i> , 2017, 27, 1443-1454.	1.7	6
112	Contribution of Methane Formation and Methane Oxidation to Methane Emission from Freshwater Systems. , 2018, , 1-31.		6
113	Abundance and $\delta^{13}C$ values of fatty acids in lacustrine surface sediments: Relationships with in-lake methane concentrations. <i>Quaternary Science Reviews</i> , 2018, 191, 337-347.	3.0	6
114	Amino acid and chlorin based degradation indicators in freshwater systems. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 304, 216-233.	3.9	6
115	Compound-specific carbon and nitrogen isotopic compositions of chlorophyll a and its derivatives reveal the eutrophication history of Lake Zurich (Switzerland). <i>Chemical Geology</i> , 2016, 441, 138.	3.3	5
116	Paleoenvironmental and paleoclimatic variations around Lake Van (Eastern Turkey) recorded by sedimentary source specific biomarkers 250â€“130 ka (MIS7 and MIS6). <i>Quaternary Science Reviews</i> , 2019, 225, 105997.	3.0	5
117	Novel methyl-branched alkenones with up to five double bonds in saline lakes. <i>Organic Geochemistry</i> , 2021, 156, 104243.	1.8	4
118	Effects of Macrofaunal Recolonization on Biogeochemical Processes and Microbiotaâ€”A Mesocosm Study. <i>Water (Switzerland)</i> , 2021, 13, 1599.	2.7	4
119	Methane, Origin. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 578-586.	0.1	4
120	Fit and fatty freshwater fish: contrasting polyunsaturated fatty acid phenotypes between hybridizing stickleback lineages. <i>Oikos</i> , 2022, 2022, .	2.7	4
121	Redox Zone and Trophic State as Drivers of Methane-Oxidizing Bacterial Abundance and Community Structure in Lake Sediments. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	4
122	Microbial carbon processing in oligotrophic Lake Lucerne (Switzerland): results of in situ ¹³ C-labelling studies. <i>Biogeochemistry</i> , 2017, 136, 131-149.	3.5	3
123	Temperature, precipitation, and vegetation changes in the Eastern Mediterranean over the last deglaciation and Dansgaard-Oeschger events. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 577, 110535.	2.3	3
124	Contribution of Methane Formation and Methane Oxidation to Methane Emission from Freshwater Systems. , 2019, , 401-430.		3
125	Lake Sediments Tell the Story of Climate Change. <i>Chimia</i> , 2014, 68, 333-333.	0.6	2
126	Processes affecting molecular and stable isotope compositions of sediment gas in estuarine waters along the southern Baltic coast (Poland). <i>Biogeochemistry</i> , 2016, 131, 203-228.	3.5	2

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127	Carbon Isotopic Composition in the Water Column of Lake Rotsee Reveals Importance of Methane Oxidation in Aquatic Environments. <i>Chimia</i> , 2012, 66, 257.	0.6	0
128	Climate and Environmental Change in the SW-Pacific of the Last ~14, 000 Years Using Lipid Biomarkers in Sediments of a New Zealand Lake. , 2020, , .		0