Jaap Sinninghe Damst

List of Publications by Citations

882 papers	62,637 citations	128 h-index	202 g-index
954 ext. papers	70,417 ext. citations	6 avg, IF	7.72 L-index

#	Paper	IF	Citations
882	Anaerobic ammonium oxidation by anammox bacteria in the Black Sea. *Nature*, **2003**, 422, 608-11	50.4	937
881	A microbial consortium couples anaerobic methane oxidation to denitrification. *Nature*, **2006**, 440, 918-21	50.4	906
880	Archaeal nitrification in the ocean. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 12317-22	11.5	872
879	Distributional variations in marine crenarchaeotal membrane lipids: a new tool for reconstructing ancient sea water temperatures?. *Earth and Planetary Science Letters*, **2002**, 204, 265-274	5.3	806
878	A novel proxy for terrestrial organic matter in sediments based on branched and isoprenoid tetraether lipids. *Earth and Planetary Science Letters*, **2004**, 224, 107-116	5.3	778
877	Evidence for gammacerane as an indicator of water column stratification. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 1895-900	5.5	671
876	The organic geochemistry of glycerol dialkyl glycerol tetraether lipids: A review. *Organic Geochemistry*, **2013**, 54, 19-61	3.1	624
875	Environmental controls on bacterial tetraether membrane lipid distribution in soils. *Geochimica Et Cosmochimica Acta*, **2007**, 71, 703-713	5.5	571
874	Restricted utility of the pristane/phytane ratio as a palaeoenvironmental indicator. *Nature*, **1987**, 330, 641-643	50.4	519
873	Occurrence and distribution of tetraether membrane lipids in soils: Implications for the use of the TEX86 proxy and the BIT index. *Organic Geochemistry*, **2006**, 37, 1680-1693	3.1	505
872	Subtropical Arctic Ocean temperatures during the Palaeocene/Eocene thermal maximum. *Nature*, **2006**, 441, 610-3	50.4	489
871	A Nitrospira metagenome illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13479-84	11.5	488
870	New indices and calibrations derived from the distribution of crenarchaeal isoprenoid tetraether lipids: Implications for past sea surface temperature reconstructions. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 4639-4654	5.5	481
869	Crenarchaeol: the characteristic core glycerol dibiphytanyl glycerol tetraether membrane lipid of cosmopolitan pelagic crenarchaeota. *Journal of Lipid Research*, **2002**, 43, 1641-51	6.3	474
868	Candidatus "Scalindua brodae", sp. nov., Candidatus "Scalindua wagneri", sp. nov., two new species of anaerobic ammonium oxidizing bacteria. *Systematic and Applied Microbiology*, **2003**, 26, 529-38	4.2	458
867	Candidatus "Anammoxoglobus propionicus" a new propionate oxidizing species of anaerobic ammonium oxidizing bacteria. *Systematic and Applied Microbiology*, **2007**, 30, 39-49	4.2	435
866	Northern hemisphere controls on tropical southeast African climate during the past 60,000 years. *Science*, **2008**, 322, 252-5	33.3	433

865	Analytical methodology for TEX86 paleothermometry by high-performance liquid chromatography/atmospheric pressure chemical ionization-mass spectrometry. *Analytical Chemistry*, **2007**, 79, 2940-4	7.8	423
864	Analysis of intact tetraether lipids in archaeal cell material and sediments by high performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2000**, 14, 585-9	2.2	401
863	An improved method to determine the absolute abundance of glycerol dibiphytanyl glycerol tetraether lipids. *Organic Geochemistry*, **2006**, 37, 1036-1041	3.1	381
862	Linearly concatenated cyclobutane lipids form a dense bacterial membrane. *Nature*, **2002**, 419, 708-12	50.4	364
861	Membrane lipids of mesophilic anaerobic bacteria thriving in peats have typical archaeal traits. *Environmental Microbiology*, **2006**, 8, 648-57	5.2	362
860	Analysis, structure and geochemical significance of organically-bound sulphur in the geosphere: State of the art and future research. *Organic Geochemistry*, **1990**, 16, 1077-1101	3.1	343
859	Carbon-isotope stratigraphy recorded by the Cenomanian□Turonian Oceanic Anoxic Event: correlation and implications based on three key localities. *Journal of the Geological Society*, **2004**, 161, 711-719	2.7	337
858	Candidatus 'Brocadia fulgida': an autofluorescent anaerobic ammonium oxidizing bacterium. *FEMS Microbiology Ecology*, **2008**, 63, 46-55	4.3	336
857	Arctic hydrology during global warming at the Palaeocene/Eocene thermal maximum. *Nature*, **2006**, 442, 671-5	50.4	334
856	Biomarker evidence for widespread anaerobic methane oxidation in Mediterranean sediments by a consortium of methanogenic archaea and bacteria. The Medinaut Shipboard Scientific Party. *Applied and Environmental Microbiology*, **2000**, 66, 1126-32	4.8	311
855	Widespread occurrence of structurally diverse tetraether membrane lipids: evidence for the ubiquitous presence of low-temperature relatives of hyperthermophiles. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 14421-6	11.5	310
854	13,16-Dimethyl octacosanedioic acid (iso-diabolic acid), a common membrane-spanning lipid of Acidobacteria subdivisions 1 and 3. *Applied and Environmental Microbiology*, **2011**, 77, 4147-54	4.8	307
853	Diagenetic and catagenetic products of isorenieratene: Molecular indicators for photic zone anoxia. *Geochimica Et Cosmochimica Acta*, **1996**, 60, 4467-4496	5.5	303
852	Global sediment core-top calibration of the TEX86 paleothermometer in the ocean. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 1154-1173	5.5	299
851	Revised calibration of the MBT□CBT paleotemperature proxy based on branched tetraether membrane lipids in surface soils. *Geochimica Et Cosmochimica Acta*, **2012**, 96, 215-229	5.5	298
850	Methanotrophic symbionts provide carbon for photosynthesis in peat bogs. *Nature*, **2005**, 436, 1153-6	50.4	296
849	Biomarkers for in situ detection of anaerobic ammonium-oxidizing (anammox) bacteria. *Applied and Environmental Microbiology*, **2005**, 71, 1677-84	4.8	294
848	Anaerobic ammonium oxidation in the Peruvian oxygen minimum zone. *Limnology and Oceanography*, **2007**, 52, 923-933	4.8	265

847	Occurrence and abundance of 6-methyl branched glycerol dialkyl glycerol tetraethers in soils: Implications for palaeoclimate reconstruction. *Geochimica Et Cosmochimica Acta*, **2014**, 141, 97-112	5.5	263
846	Tetraether membrane lipid distributions in water-column particulate matter and sediments: a study of 47 European lakes along a north–south transect. *Journal of Paleolimnology*, **2009**, 41, 523-540	2.1	257
845	CH4-consuming microorganisms and the formation of carbonate crusts at cold seeps. *Earth and Planetary Science Letters*, **2002**, 203, 195-203	5.3	252
844	Environmental precursors to rapid light carbon injection at the Palaeocene/Eocene boundary. *Nature*, **2007**, 450, 1218-21	50.4	248
843	Half-precessional dynamics of monsoon rainfall near the East African Equator. *Nature*, **2009**, 462, 637-41	50.4	244
842	High temperatures in the Late Cretaceous Arctic Ocean. *Nature*, **2004**, 432, 888-92	50.4	243
841	Thaumarchaeotes abundant in refinery nitrifying sludges express amoA but are not obligate autotrophic ammonia oxidizers. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 16771-6	11.5	239
840	Episodic fresh surface waters in the Eocene Arctic Ocean. *Nature*, **2006**, 441, 606-9	50.4	234
839	Biosynthetic effects on the stable carbon isotopic compositions of algal lipids: implications for deciphering the carbon isotopic biomarker record. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 1397-1406	5.5	233
838	Coupled thermal and hydrological evolution of tropical Africa over the last deglaciation. *Science*, **2007**, 315, 1701-4	33.3	233
837	The effect of improved chromatography on GDGT-based palaeoproxies. *Organic Geochemistry*, **2016**, 93, 1-6	3.1	232
836	Carbon isotope analyses of n-alkanes in dust from the lower atmosphere over the central eastern Atlantic. *Geochimica Et Cosmochimica Acta*, **2003**, 67, 1757-1767	5.5	231
835	Cretaceous sea-surface temperature evolution: Constraints from TEX 86 and planktonic foraminiferal oxygen isotopes. *Earth-Science Reviews*, **2017**, 172, 224-247	10.2	221
834	A 6,000-year sedimentary molecular record of chemocline excursions in the Black Sea. *Nature*, **1993**, 362, 827-9	50.4	221
833	Archaeal lipids in Mediterranean cold seeps: molecular proxies for anaerobic methane oxidation. *Geochimica Et Cosmochimica Acta*, **2001**, 65, 1611-1627	5.5	219
832	Environmental controls on branched tetraether lipid distributions in tropical East African lake sediments. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 4902-4918	5.5	217
831	Biomarkers as proxies for plant inputs to peats: an example from a sub-boreal ombrotrophic bog. *Organic Geochemistry*, **2002**, 33, 675-690	3.1	217
830	Nitrification expanded: discovery, physiology and genomics of a nitrite-oxidizing bacterium from the phylum Chloroflexi. *ISME Journal*, **2012**, 6, 2245-56	11.9	216

829	The rise of the rhizosolenid diatoms. *Science*, **2004**, 304, 584-7	33.3	216
828	Fluxes and distribution of tetraether lipids in an equatorial African lake: Constraints on the application of the TEX86 palaeothermometer and BIT index in lacustrine settings. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 4232-4249	5.5	215
827	Enhanced productivity led to increased organic carbon burial in the euxinic North Atlantic basin during the late Cenomanian oceanic anoxic event. *Paleoceanography*, **2002**, 17, 3-1-3-13		213
826	Organic sulphur in macromolecular sedimentary organic matter: I. Structure and origin of sulphur-containing moieties in kerogen, asphaltenes and coal as revealed by flash pyrolysis. *Geochimica Et Cosmochimica Acta*, **1989**, 53, 873-889	5.5	213
825	N2-fixing cyanobacteria supplied nutrient N for Cretaceous oceanic anoxic events. *Geology*, **2004**, 32, 853	5	212
824	Extremely high sea-surface temperatures at low latitudes during the middle Cretaceous as revealed by archaeal membrane lipids. *Geology*, **2003**, 31, 1069	5	209
823	Wet phases in the Sahara/Sahel region and human migration patterns in North Africa. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 20159-63	11.5	208
822	The anammoxosome: an intracytoplasmic compartment in anammox bacteria. *FEMS Microbiology Letters*, **2004**, 233, 7-13	2.9	208
821	A comparative study of lipids in Sphagnum species. *Organic Geochemistry*, **2000**, 31, 535-541	3.1	205
820	Massive expansion of marine archaea during a mid-Cretaceous oceanic anoxic event. *Science*, **2001**, 293, 92-5	33.3	205
819	Constraints on the application of the MBT/CBT palaeothermometer at high latitude environments (Svalbard, Norway). *Organic Geochemistry*, **2009**, 40, 692-699	3.1	201
818	Isotopic evidence for glaciation during the Cretaceous supergreenhouse. *Science*, **2008**, 319, 189-92	33.3	201
817	Newly discovered non-isoprenoid glycerol dialkylglycerol tetraether lipids in sediments. *Chemical Communications*, **2000**, 1683-1684	5.8	199
816	Temperature-dependent variation in the distribution of tetraether membrane lipids of marine Crenarchaeota: Implications for TEX86 paleothermometry. *Paleoceanography*, **2004**, 19, n/a-n/a		196
815	Tropical warming and intermittent cooling during the Cenomanian/Turonian oceanic anoxic event 2: Sea surface temperature records from the equatorial Atlantic. *Paleoceanography*, **2007**, 22, n/a-n/a		193
814	Enrichment and characterization of an autotrophic ammonia-oxidizing archaeon of mesophilic crenarchaeal group I.1a from an agricultural soil. *Applied and Environmental Microbiology*, **2011**, 77, 8635-47	4.8	191
813	A euxinic southern North Atlantic Ocean during the Cenomanian/Turonian oceanic anoxic event. *Earth and Planetary Science Letters*, **1998**, 158, 165-173	5.3	189
812	A large and abrupt fall in atmospheric CO2 concentration during Cretaceous times. *Nature*, **1999**, 399, 342-345	50.4	185

811	Distribution of aliphatic, nonhydrolyzable biopolymers in marine microalgae. *Organic Geochemistry*, **1999**, 30, 147-159	3.1	184
810	Putative ammonia-oxidizing Crenarchaeota in suboxic waters of the Black Sea: a basin-wide ecological study using 16S ribosomal and functional genes and membrane lipids. *Environmental Microbiology*, **2007**, 9, 1001-16	5.2	181
809	Bicarbonate uptake by marine Crenarchaeota. *FEMS Microbiology Letters*, **2003**, 219, 203-7	2.9	181
808	Global prevalence of methane oxidation by symbiotic bacteria in peat-moss ecosystems. *Nature Geoscience*, **2010**, 3, 617-621	18.3	178
807	Enrichment and characterization of marine anammox bacteria associated with global nitrogen gas production. *Environmental Microbiology*, **2008**, 10, 3120-9	5.2	177
806	Cultivation of autotrophic ammonia-oxidizing archaea from marine sediments in coculture with sulfur-oxidizing bacteria. *Applied and Environmental Microbiology*, **2010**, 76, 7575-87	4.8	176
805	Carbon isotopic compositions of prokaryotic lipids as tracers of carbon cycling in diverse settings. *Chemical Geology*, **2003**, 195, 29-58	4.2	175
804	Decoupled warming and monsoon precipitation in East Asia over the last deglaciation. *Earth and Planetary Science Letters*, **2011**, 301, 256-264	5.3	174
803	African vegetation controlled by tropical sea surface temperatures in the mid-Pleistocene period. *Nature*, **2003**, 422, 418-21	50.4	174
802	Water column anoxia, enhanced productivity and concomitant changes in □13C and □34S across the Frasnian□amennian boundary (Kowala □Holy Cross Mountains/Poland). *Chemical Geology*, **2001**, 175, 109-131	4.2	173
801	Archaea mediate anaerobic oxidation of methane in deep euxinic waters of the Black Sea. *Geochimica Et Cosmochimica Acta*, **2003**, 67, 1359-1374	5.5	170
800	Niche segregation of ammonia-oxidizing archaea and anammox bacteria in the Arabian Sea oxygen minimum zone. *ISME Journal*, **2011**, 5, 1896-904	11.9	167
799	Crenarchaeotal membrane lipids in lake sediments: A new paleotemperature proxy for continental paleoclimate reconstruction?. *Geology*, **2004**, 32, 613	5	166
798	Isoprenoid thiophenes: novel products of sediment diagenesis?. *Nature*, **1986**, 320, 160-162	50.4	164
797	The occurrence of hopanoids in planctomycetes: implications for the sedimentary biomarker record. *Organic Geochemistry*, **2004**, 35, 561-566	3.1	163
796	Intact membrane lipids of "Candidatus Nitrosopumilus maritimus," a cultivated representative of the cosmopolitan mesophilic group I Crenarchaeota. *Applied and Environmental Microbiology*, **2008**, 74, 2433-40	4.8	162
795	Late Quaternary behavior of the East African monsoon and the importance of the Congo Air Boundary. *Quaternary Science Reviews*, **2011**, 30, 798-807	3.9	159
794	Constraints on the Biological Source(s) of the Orphan Branched Tetraether Membrane Lipids. *Geomicrobiology Journal*, **2009**, 26, 402-414	2.5	157

793	Mid-Cretaceous (Albian–Santonian) sea surface temperature record of the tropical Atlantic Ocean. *Geology*, **2007**, 35, 919	5	157
792	Distribution of membrane lipids of planktonic Crenarchaeota in the Arabian Sea. *Applied and Environmental Microbiology*, **2002**, 68, 2997-3002	4.8	157
791	Di- or polysulphide-bound biomarkers in sulphur-rich geomacromolecules as revealed by selective chemolysis. *Geochimica Et Cosmochimica Acta*, **1991**, 55, 1375-1394	5.5	156
790	Microbial ecology of the stratified water column of the Black Sea as revealed by a comprehensive biomarker study. *Organic Geochemistry*, **2007**, 38, 2070-2097	3.1	153
789	Combined DNA and lipid analyses of sediments reveal changes in Holocene haptophyte and diatom populations in an Antarctic lake. *Earth and Planetary Science Letters*, **2004**, 223, 225-239	5.3	153
788	In situ produced branched glycerol dialkyl glycerol tetraethers in suspended particulate matter from the Yenisei River, Eastern Siberia. *Geochimica Et Cosmochimica Acta*, **2014**, 125, 476-491	5.5	152
787	Applicability and calibration of the TEX86 paleothermometer in lakes. *Organic Geochemistry*, **2010**, 41, 404-413	3.1	152
786	Sulphidic Mediterranean surface waters during Pliocene sapropel formation. *Nature*, **1999**, 397, 146-149	50.4	152
785	The occurrence and identification of series of organic sulphur compounds in oils and sediment extracts. I. A study of Rozel Point Oil (U.S.A.). *Geochimica Et Cosmochimica Acta*, **1987**, 51, 2369-2391	5.5	152
784	Warm arctic continents during the Palaeocene–Eocene thermal maximum. *Earth and Planetary Science Letters*, **2007**, 261, 230-238	5.3	151
783	Core and intact polar glycerol dibiphytanyl glycerol tetraether lipids of ammonia-oxidizing archaea enriched from marine and estuarine sediments. *Applied and Environmental Microbiology*, **2011**, 77, 3468-77	4.8	150
782	Recognition of paleobiochemicals by a combined molecular sulfur and isotope geochemical approach. *Science*, **1992**, 256, 358-62	33.3	149
781	Resistant biomacromolecules in marine microalgae of the classes Eustigmatophyceae and Chlorophyceae: Geochemical implications. *Organic Geochemistry*, **1997**, 26, 659-675	3.1	148
780	Three series of non-isoprenoidal dialkyl glycerol diethers in cold-seep carbonate crusts. *Organic Geochemistry*, **2001**, 32, 695-707	3.1	148
779	The influence of oxic degradation on the sedimentary biomarker record II. Evidence from Arabian Sea sediments. *Geochimica Et Cosmochimica Acta*, **2002**, 66, 2737-2754	5.5	146
778	Warm and wet conditions in the Arctic region during Eocene Thermal Maximum 2. *Nature Geoscience*, **2009**, 2, 777-780	18.3	144
777	Anaerobic ammonium oxidation by marine and freshwater planctomycete-like bacteria. *Applied Microbiology and Biotechnology*, **2003**, 63, 107-14	5.7	143
776	The occurrence and identification of series of organic sulphur compounds in oils and sediment extracts: II. Their presence in samples from hypersaline and non-hypersaline palaeoenvironments and possible application as source, palaeoenvironmental and maturity indicators. *Geochimica Et Cosmochimica Acta*, **1989**, 53, 1323-1341	5.5	142

775	Temporal and spatial variation in tetraether membrane lipids of marine Crenarchaeota in particulate organic matter: Implications for TEX86 paleothermometry. *Paleoceanography*, **2005**, 20, n/a-n/a		141
774	Transient Middle Eocene atmospheric CO and temperature variations. *Science*, **2010**, 330, 819-21	33.3	140
773	A study of the TEX86 paleothermometer in the water column and sediments of the Santa Barbara Basin, California. *Paleoceanography*, **2007**, 22, n/a-n/a		140
772	Millennial-scale sea surface temperature changes in the eastern Mediterranean (Nile River Delta region) over the last 27,000 years. *Paleoceanography*, **2010**, 25,		139
771	Atmospheric carbon injection linked to end-Triassic mass extinction. *Science*, **2011**, 333, 430-4	33.3	138
770	A comprehensive study of sterols in marine diatoms (Bacillariophyta): Implications for their use as tracers for diatom productivity. *Limnology and Oceanography*, **2010**, 55, 91-105	4.8	138
769	Molecular isotopic characterisation of hydrocarbon biomarkers in Palaeocene Eocene evaporitic, lacustrine source rocks from the Jianghan Basin, China. *Organic Geochemistry*, **1998**, 29, 1745-1764	3.1	137
768	Crenarchaeol dominates the membrane lipids of Candidatus Nitrososphaera gargensis, a thermophilic group I.1b Archaeon. *ISME Journal*, **2010**, 4, 542-52	11.9	136
767	Warm Middle Jurassic Early Cretaceous high-latitude sea-surface temperatures from the Southern Ocean. *Climate of the Past*, **2012**, 8, 215-226	3.9	134
766	Identification of novel penta- and hexamethylated branched glycerol dialkyl glycerol tetraethers in peat using HPLC MS2, GC MS and GC MB-MS. *Organic Geochemistry*, **2013**, 54, 78-82	3.1	133
765	Structural characterization, occurrence and fate of archaeal ether-bound acyclic and cyclic biphytanes and corresponding diols in sediments. *Organic Geochemistry*, **1998**, 29, 1305-1319	3.1	133
764	Large temperature variability in the southern African tropics since the Last Glacial Maximum. *Geophysical Research Letters*, **2005**, 32,	4.9	133
763	Hydrogen peroxide detoxification is a key mechanism for growth of ammonia-oxidizing archaea. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 7888-93	11.5	132
762	Significantly warmer Arctic surface temperatures during the Pliocene indicated by multiple independent proxies. *Geology*, **2010**, 38, 603-606	5	132
761	Organic sulfur compounds formed during early diagenesis in Black Sea sediments. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 521-533	5.5	132
760	Calibration and application of the branched GDGT temperature proxy on East African lake sediments. *Earth and Planetary Science Letters*, **2012**, 357-358, 277-288	5.3	131
759	Variations in spatial and temporal distribution of Archaea in the North Sea in relation to environmental variables. *FEMS Microbiology Ecology*, **2007**, 62, 242-57	4.3	131
758	Eustatic variations during the Paleocene-Eocene greenhouse world. *Paleoceanography*, **2008**, 23, n/a-n/a		129

757	Towards calibration of the TEX86 palaeothermometer for tropical sea surface temperatures in ancient greenhouse worlds. *Organic Geochemistry*, **2007**, 38, 1537-1546	3.1	129
756	Chemical structure of algaenans from the fresh water algae Tetraedron minimum, Scenedesmus communis and Pediastrum boryanum. *Organic Geochemistry*, **1998**, 29, 1453-1468	3.1	128
755	Evolution of the methane cycle in Ace Lake (Antarctica) during the Holocene: response of methanogens and methanotrophs to environmental change. *Organic Geochemistry*, **2004**, 35, 1151-1167	3.1	128
754	Reduced sulfur in euxinic sediments of the Cariaco Basin: sulfur isotope constraints on organic sulfur formation. *Chemical Geology*, **2003**, 195, 159-179	4.2	127
753	Intact polar and core glycerol dibiphytanyl glycerol tetraether lipids of group I.1a and I.1b thaumarchaeota in soil. *Applied and Environmental Microbiology*, **2012**, 78, 6866-74	4.8	126
752	Reduced interannual rainfall variability in East Africa during the last ice age. *Science*, **2011**, 333, 743-7	33.3	126
751	Black shale deposition on the northwest African Shelf during the Cenomanian/Turonian oceanic anoxic event: Climate coupling and global organic carbon burial. *Paleoceanography*, **2005**, 20, n/a-n/a		126
750	Cultivation of a highly enriched ammonia-oxidizing archaeon of thaumarchaeotal group I.1b from an agricultural soil. *Environmental Microbiology*, **2012**, 14, 1528-43	5.2	125
749	Archaeal and bacterial glycerol dialkyl glycerol tetraether lipids in hot springs of yellowstone national park. *Applied and Environmental Microbiology*, **2007**, 73, 6181-91	4.8	125
748	Characterization of Tertiary Catalan lacustrine oil shales: Discovery of extremely organic sulphur-rich Type I kerogens. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 389-415	5.5	125
747	Biases from natural sulphurization in palaeoenvironmental reconstruction based on hydrocarbon biomarker distributions. *Nature*, **1991**, 349, 775-778	50.4	125
746	Structural identification of ladderane and other membrane lipids of planctomycetes capable of anaerobic ammonium oxidation (anammox). *FEBS Journal*, **2005**, 272, 4270-83	5.7	124
745	Occurrence and origin of mono-, di-, and trimethylalkanes in modern and Holocene cyanobacterial mats from Abu Dhabi, United Arab Emirates. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 2999-3015	5.5	124
744	Fossilization and degradation of intact polar lipids in deep subsurface sediments: A theoretical approach. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 3806-3814	5.5	122
743	Rapid estimation of the organic sulphur content of kerogens, coals and asphaltenes by pyrolysis-gas chromatography. *Fuel*, **1990**, 69, 1394-1404	7.1	122
742	Stable carbon isotopic fractionations associated with inorganic carbon fixation by anaerobic ammonium-oxidizing bacteria. *Applied and Environmental Microbiology*, **2004**, 70, 3785-8	4.8	120
741	Early incorporation of polysulphides in sedimentary organic matter. *Nature*, **1989**, 341, 640-641	50.4	120
740	Distribution of tetraether lipids in the 25-ka sedimentary record of Lake Challa: extracting reliable TEX86 and MBT/CBT palaeotemperatures from an equatorial African lake. *Quaternary Science Reviews*, **2012**, 50, 43-54	3.9	119

739	Core and intact polar glycerol dialkyl glycerol tetraethers (GDGTs) in Sand Pond, Warwick, Rhode Island (USA): Insights into the origin of lacustrine GDGTs. *Geochimica Et Cosmochimica Acta*, **2012**, 77, 561-581	5.5	119
738	Diversity and ecology of tropical African fungal spores from a 25,000-year palaeoenvironmental record in southeastern Kenya. *Review of Palaeobotany and Palynology*, **2011**, 164, 174-190	1.7	119
737	The effect of maturity and depositional redox conditions on archaeal tetraether lipid palaeothermometry. *Organic Geochemistry*, **2004**, 35, 567-571	3.1	119
736	Spatial heterogeneity of sources of branched tetraethers in shelf systems: The geochemistry of tetraethers in the Berau River delta (Kalimantan, Indonesia). *Geochimica Et Cosmochimica Acta*, **2016**, 186, 13-31	5.5	115
735	The Paleocene□Eocene carbon isotope excursion in higher plant organic matter: Differential fractionation of angiosperms and conifers in the Arctic. *Earth and Planetary Science Letters*, **2007**, 258, 581-592	5.3	115
734	A molecular and carbon isotopic study towards the origin and diagenetic fate of diaromatic carotenoids. *Organic Geochemistry*, **1994**, 22, 703-25	3.1	115
733	Arctic late Paleocene□early Eocene paleoenvironments with special emphasis on the Paleocene-Eocene thermal maximum (Lomonosov Ridge, Integrated Ocean Drilling Program Expedition 302). *Paleoceanography*, **2008**, 23, n/a-n/a		114
732	Selective preservation of soil organic matter in oxidized marine sediments (Madeira Abyssal Plain). *Geochimica Et Cosmochimica Acta*, **2008**, 72, 6061-6068	5.5	114
731	The identification of mono-, di- and trimethyl 2-methyl-2-(4,8,12-trimethyltridecyl)chromans and their occurrence in the geosphere. *Geochimica Et Cosmochimica Acta*, **1987**, 51, 2393-2400	5.5	114
730	Novel, resistant microalgal polyethers: An important sink of organic carbon in the marine environment?. *Geochimica Et Cosmochimica Acta*, **1996**, 60, 1275-1280	5.5	112
729	Early diagenesis of bacteriohopanepolyol derivatives: Formation of fossil homohopanoids. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 5141-5157	5.5	111
728	Restricted utility of aryl isoprenoids as indicators for photic zone anoxia. *Geochimica Et Cosmochimica Acta*, **1996**, 60, 4873-4876	5.5	111
727	Origin and diagenetic transformations of C25 and C30 highly branched isoprenoid sulphur compounds: Further evidence for the formation of organically bound sulphur during early diagenesis. *Geochimica Et Cosmochimica Acta*, **1990**, 54, 3053-3063	5.5	111
726	A 25,000-year record of climate-induced changes in lowland vegetation of eastern equatorial Africa revealed by the stable carbon-isotopic composition of fossil plant leaf waxes. *Earth and Planetary Science Letters*, **2011**, 302, 236-246	5.3	110
725	Distributions of branched GDGTs in soils and lake sediments from western Uganda: Implications for a lacustrine paleothermometer. *Organic Geochemistry*, **2011**, 42, 739-751	3.1	109
724	The influence of oxic degradation on the sedimentary biomarker record I: evidence from Madeira Abyssal Plain turbidites. *Geochimica Et Cosmochimica Acta*, **2002**, 66, 2719-2735	5.5	109
723	A CO2 decrease-driven cooling and increased latitudinal temperature gradient during the mid-Cretaceous Oceanic Anoxic Event 2. *Earth and Planetary Science Letters*, **2010**, 293, 97-103	5.3	108
722	Postdepositional oxic degradation of alkenones: Implications for the measurement of palaeo sea surface temperatures. *Paleoceanography*, **1998**, 13, 42-49		107

721	Early reactivation of European rivers during the last deglaciation. *Science*, **2006**, 313, 1623-5	33.3	106
720	A thermal and chemical degradation approach to decipher pristane and phytane precursors in sedimentary organic matter. *Organic Geochemistry*, **1999**, 30, 1089-1104	3.1	106
719	Origin of organic sulphur compounds and sulphur-containing high molecular weight substances in sediments and immature crude oils. *Organic Geochemistry*, **1988**, 13, 593-606	3.1	106
718	Rapid short-term cooling following the Chicxulub impact at the Cretaceous-Paleogene boundary. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 7537-41	11.5	105
717	A diatomaceous origin for long-chain diols and mid-chain hydroxy methyl alkanoates widely occurring in quaternary marine sediments: indicators for high-nutrient conditions. *Geochimica Et Cosmochimica Acta*, **2003**, 67, 1339-1348	5.5	105
716	Molecular records of climate variability and vegetation response since the Late Pleistocene in the Lake Victoria basin, East Africa. *Quaternary Science Reviews*, **2012**, 55, 59-74	3.9	104
715	TEX86 and stable δ18O paleothermometry of early Cretaceous sediments: Implications for belemnite ecology and paleotemperature proxy application. *Earth and Planetary Science Letters*, **2010**, 298, 286-298	5.3	104
714	Biomarker and 16S rDNA evidence for anaerobic oxidation of methane and related carbonate precipitation in deep-sea mud volcanoes of the Sorokin Trough, Black Sea. *Marine Geology*, **2005**, 217, 67-96	3.3	104
713	Disentangling marine, soil and plant organic carbon contributions to continental margin sediments: A multi-proxy approach in a 20,000 year sediment record from the Congo deep-sea fan. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 119-132	5.5	103
712	Taraxerol and Rhizophora pollen as proxies for tracking past mangrove ecosystems. *Geochimica Et Cosmochimica Acta*, **2004**, 68, 411-422	5.5	103
711	Extended megadroughts in the southwestern United States during Pleistocene interglacials. *Nature* , **2011**, 470, 518-21	50.4	102
710	Glacial–interglacial variability in Atlantic meridional overturning circulation and thermocline adjustments in the tropical North Atlantic. *Earth and Planetary Science Letters*, **2010**, 300, 407-414	5.3	102
709	Branched glycerol dialkyl glycerol tetraethers in lake sediments: Can they be used as temperature and pH proxies?. *Organic Geochemistry*, **2010**, 41, 1225-1234	3.1	101
708	Timing of early diagenetic sulfurization of organic matter: a precursor-product relationship in Holocene sediments of the anoxic Cariaco Basin, Venezuela. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 1741-1751	5.5	101
707	Organic matter and trace element rich sapropels and black shales: a geochemical comparison. *Earth and Planetary Science Letters*, **1999**, 169, 277-290	5.3	101
706	Molecular indicators for palaeoenvironmental change in a Messinian evaporitic sequence (Vena del Gesso, Italy). II: High-resolution variations in abundances and 13C contents of free and sulphur-bound carbon skeletons in a single marl bed. *Organic Geochemistry*, **1995**, 23, 485-526	3.1	101
705	Controls on the molecular and carbon isotopic composition of organic matter deposited in a Kimmeridgian euxinic shelf sea: evidence for preservation of carbohydrates through sulfurisation. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 3259-3283	5.5	100
704	Biogeochemical evidence that thermophilic archaea mediate the anaerobic oxidation of methane. *Applied and Environmental Microbiology*, **2003**, 69, 1680-6	4.8	99

703	Unique distributions of hydrocarbons and sulphur compounds released by flash pyrolysis from the fossilised alga Gloeocapsomorpha prisca, a major constituent in one of four Ordovician kerogens. *Geochimica Et Cosmochimica Acta*, **1991**, 55, 275-291	5.5	99
702	Absence of seasonal patterns in MBT/CBT indices in mid-latitude soils. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 3179-3190	5.5	97
701	Variations in abundances and distributions of isoprenoid chromans and long-chain alkylbenzenes in sediments of the Mulhouse Basin: a molecular sedimentary record of palaeosalinity. *Organic Geochemistry*, **1993**, 20, 1201-1215	3.1	97
700	A reanalysis of phospholipid fatty acids as ecological biomarkers for methanotrophic bacteria. *ISME Journal*, **2009**, 3, 606-17	11.9	96
699	Instability in tropical Pacific sea-surface temperatures during the early Aptian. *Geology*, **2006**, 34, 833	5	96
698	Distributions of 5- and 6-methyl branched glycerol dialkyl glycerol tetraethers (brGDGTs) in East African lake sediment: Effects of temperature, pH, and new lacustrine paleotemperature calibrations. *Organic Geochemistry*, **2018**, 117, 56-69	3.1	95
697	Effects of long term oxic degradation on the U37K?, TEX86 and BIT organic proxies. *Organic Geochemistry*, **2009**, 40, 1188-1194	3.1	94
696	Sulfurized carbohydrates: an important sedimentary sink for organic carbon?. *Earth and Planetary Science Letters*, **1998**, 164, 7-13	5.3	94
695	Impact of dia- and catagenesis on sulphur and oxygen sequestration of biomarkers as revealed by artificial maturation of an immature sedimentary rock. *Organic Geochemistry*, **1996**, 25, 391-426	3.1	94
694	Geochemical significance of alkylbenzene distributions in flash pyrolysates of kerogens, coals, and asphaltenes. *Geochimica Et Cosmochimica Acta*, **1994**, 58, 1759-1775	5.5	94
693	Influence of soil pH on the abundance and distribution of core and intact polar lipid-derived branched GDGTs in soil. *Organic Geochemistry*, **2010**, 41, 1171-1175	3.1	93
692	Separation of core and intact polar archaeal tetraether lipids using silica columns: Insights into living and fossil biomass contributions. *Organic Geochemistry*, **2009**, 40, 12-19	3.1	93
691	Hydrogen isotopic compositions of long-chain alkenones record freshwater flooding of the Eastern Mediterranean at the onset of sapropel deposition. *Earth and Planetary Science Letters*, **2007**, 262, 594-600	5.3	93
690	Orbital forcing of organic carbon burial in the proto-North Atlantic during oceanic anoxic event 2. *Earth and Planetary Science Letters*, **2004**, 228, 465-482	5.3	93
689	Laboratory simulation of natural sulphurization: I. Formation of monomeric and oligomeric isoprenoid polysulphides by low-temperature reactions of inorganic polysulphides with phytol and phytadienes. *Geochimica Et Cosmochimica Acta*, **1992**, 56, 4321-4328	5.5	93
688	Altitudinal shifts in the branched tetraether lipid distribution in soil from Mt. Kilimanjaro (Tanzania): Implications for the MBT/CBT continental palaeothermometer. *Organic Geochemistry*, **2008**, 39, 1072-1076	3.1	91
687	Archaeal tetraether membrane lipid fluxes in the northeastern Pacific and the Arabian Sea: Implications for TEX86 paleothermometry. *Paleoceanography*, **2006**, 21,		91
686	CO2- and temperature-controlled altitudinal shifts of C4- and C3-dominated grasslands allow reconstruction of palaeoatmospheric pCO2. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2002**, 177, 151-168	2.9	91

685	Long chain 1,13- and 1,15-diols as a potential proxy for palaeotemperature reconstruction. *Geochimica Et Cosmochimica Acta*, **2012**, 84, 204-216	5.5	90
684	Disentangling the origins of branched tetraether lipids and crenarchaeol in the lower Amazon River: Implications for GDGT-based proxies. *Limnology and Oceanography*, **2013**, 58, 343-353	4.8	90
683	Ether- and ester-bound iso-diabolic acid and other lipids in members of acidobacteria subdivision 4. *Applied and Environmental Microbiology*, **2014**, 80, 5207-18	4.8	89
682	Identification and carbon isotope composition of a novel branched GDGT isomer in lake sediments: Evidence for lacustrine branched GDGT production. *Geochimica Et Cosmochimica Acta*, **2015**, 154, 118-129	5.5	89
681	Aerobic and anaerobic methanotrophs in the Black Sea water column. *Environmental Microbiology*, **2006**, 8, 1844-56	5.2	89
680	Isotopically heavy carbon in the C21 to C25 regular isoprenoids in halite-rich deposits from the Sdom Formation, Dead Sea Basin, Israel. *Organic Geochemistry*, **1998**, 28, 349-359	3.1	88
679	Origin and distribution of terrestrial organic matter in the NW Mediterranean (Gulf of Lions): Exploring the newly developed BIT index. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	88
678	Isorenieratane record in black shales from the Paris Basin, France: Constraints on recycling of respired CO2 as a mechanism for negative carbon isotope shifts during the Toarcian oceanic anoxic event. *Paleoceanography*, **2006**, 21,		88
677	Intact polar and core glycerol dibiphytanyl glycerol tetraether lipids in the Arabian Sea oxygen minimum zone: I. Selective preservation and degradation in the water column and consequences for the TEX86. *Geochimica Et Cosmochimica Acta*, **2012**, 98, 228-243	5.5	87
676	New anaerobic, ammonium-oxidizing community enriched from peat soil. *Applied and Environmental Microbiology*, **2011**, 77, 966-71	4.8	87
675	Impact of climate change on the Baltic Sea ecosystem over the past 1,000 years. *Nature Climate Change*, **2012**, 2, 871-874	21.4	87
674	Diel variations in carbon metabolism by green nonsulfur-like bacteria in alkaline siliceous hot spring microbial mats from Yellowstone National Park. *Applied and Environmental Microbiology*, **2005**, 71, 3978-86	4.8	87
673	Curie-point pyrolysis of sodium salts of functionalized fatty acids. *Journal of Analytical and Applied Pyrolysis*, **1995**, 34, 191-217	6	86
672	2,6,10,15,19-Pentamethylicosenes in Methanolobus bombayensis, a marine methanogenic archaeon, and in Methanosarcina mazei. *Organic Geochemistry*, **1997**, 26, 409-414	3.1	85
671	Molecular isotopic and dinoflagellate evidence for Late Holocene freshening of the Black Sea. *Earth and Planetary Science Letters*, **2008**, 267, 426-434	5.3	85
670	A remarkable paradox: Sulfurised freshwater algal (Botryococcus braunii) lipids in an ancient hypersaline euxinic ecosystem. *Organic Geochemistry*, **1998**, 28, 195-216	3.1	84
669	Aging of marine organic matter during cross-shelf lateral transport in the Benguela upwelling system revealed by compound-specific radiocarbon dating. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	84
668	Seafloor geological studies above active gas chimneys off Egypt (Central Nile Deep Sea Fan). *Deep-Sea Research Part I: Oceanographic Research Papers*, **2007**, 54, 1146-1172	2.5	84

667	Crenarchaeol tracks winter blooms of ammonia-oxidizing Thaumarchaeota in the coastal North Sea. *Limnology and Oceanography*, **2011**, 56, 2308-2318	4.8	83
666	Identification of intermediates leading to chloroform and C-4 diacids in the chlorination of humic acid. *Environmental Science & Technology*, **1985**, 19, 512-22	10.3	83
665	Carbon isotope variability in monosaccharides and lipids of aquatic algae and terrestrial plants. *Marine Ecology - Progress Series*, **2002**, 232, 83-92	2.6	83
664	A re-evaluation of the archaeal membrane lipid biosynthetic pathway. *Nature Reviews Microbiology*, **2014**, 12, 438-48	22.2	82
663	Singulisphaera acidiphila gen. nov., sp. nov., a non-filamentous, Isosphaera-like planctomycete from acidic northern wetlands. *International Journal of Systematic and Evolutionary Microbiology*, **2008**, 58, 1186-93	2.2	82
662	Formation of insoluble, nonhydrolyzable, sulfur-rich macromolecules via incorporation of inorganic sulfur species into algal carbohydrates. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 2689-2699	5.5	82
661	Evidence for only minor contributions from bacteria to sedimentary organic carbon. *Nature*, **1994**, 369, 224-7	50.4	82
660	Identification of homologous series of alkylated thiophenes, thiolanes, thianes and benzothiophenes present in pyrolysates of sulphur-rich kerogens. *Journal of Chromatography A*, **1988**, 435, 435-452	4.5	82
659	Tracing soil organic carbon in the lower Amazon River and its tributaries using GDGT distributions and bulk organic matter properties. *Geochimica Et Cosmochimica Acta*, **2012**, 90, 163-180	5.5	81
658	Response of an ombrotrophic bog to a regional climate event revealed by macrofossil, molecular and carbon isotopic data. *Holocene*, **2003**, 13, 921-932	2.6	81
657	Application of biological markers in the recognition of palaeohypersaline environments. *Geological Society Special Publication*, **1988**, 40, 123-130	1.7	81
656	Sources of core and intact branched tetraether membrane lipids in the lacustrine environment: Anatomy of Lake Challa and its catchment, equatorial East Africa. *Geochimica Et Cosmochimica Acta*, **2014**, 140, 106-126	5.5	80
655	Mimicking the oxygen minimum zones: stimulating interaction of aerobic archaeal and anaerobic bacterial ammonia oxidizers in a laboratory-scale model system. *Environmental Microbiology*, **2012**, 14, 3146-58	5.2	80
654	Sandpipers (Scolopacidae) switch from monoester to diester preen waxes during courtship and incubation, but why?. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 2135-9	4.4	80
653	Effects of zooplankton herbivory on biomarker proxy records. *Paleoceanography*, **1998**, 13, 686-693		80
652	Sulfur-binding in recent environments: II. Speciation of sulfur and iron and implications for the occurrence of organo-sulfur compounds. *Geochimica Et Cosmochimica Acta*, **1997**, 61, 4769-4788	5.5	79
651	Characterization of transport and deposition of terrestrial organic matter in the southern North Sea using the BIT index. *Limnology and Oceanography*, **2006**, 51, 2196-2205	4.8	79
650	Characterisation of highly branched isoprenoid thiophenes occurring in sediments and immature crude oils. *Organic Geochemistry*, **1989**, 14, 555-567	3.1	79

649	Benthic primary producers are key to sustain the Wadden Sea food web: stable carbon isotope analysis at landscape scale. *Ecology*, **2017**, 98, 1498-1512	4.6	78
648	An overview of the occurrence of ether- and ester-linked iso-diabolic acid membrane lipids in microbial cultures of the Acidobacteria: Implications for brGDGT paleoproxies for temperature and pH. *Organic Geochemistry*, **2018**, 124, 63-76	3.1	78
647	Cutan, a common aliphatic biopolymer in cuticles of drought-adapted plants. *Organic Geochemistry*, **2005**, 36, 595-601	3.1	78
646	Climate variability and ocean fertility during the Aptian Stage. *Climate of the Past*, **2015**, 11, 383-402	3.9	77
645	Sources for sedimentary bacteriohopanepolyols as revealed by 16S rDNA stratigraphy. *Environmental Microbiology*, **2008**, 10, 1783-803	5.2	77
644	Molecular organic tracers of biogeochemical processes in a saline meromictic lake (Ace Lake). *Geochimica Et Cosmochimica Acta*, **2001**, 65, 1629-1640	5.5	77
643	Autotrophic carbon dioxide fixation via the Calvin-Benson-Bassham cycle by the denitrifying methanotroph "Candidatus Methylomirabilis oxyfera". *Applied and Environmental Microbiology*, **2014**, 80, 2451-60	4.8	76
642	Ladderane lipid distribution in four genera of anammox bacteria. *Archives of Microbiology*, **2008**, 190, 51-66	3	76
641	Detection, isolation, and characterization of acidophilic methanotrophs from Sphagnum mosses. *Applied and Environmental Microbiology*, **2011**, 77, 5643-54	4.8	75
640	The fate of carotenoids in sediments: An overview. *Pure and Applied Chemistry*, **1997**, 69, 2067-2074	2.1	75
639	Schlesneria paludicola gen. nov., sp. nov., the first acidophilic member of the order Planctomycetales, from Sphagnum-dominated boreal wetlands. *International Journal of Systematic and Evolutionary Microbiology*, **2007**, 57, 2680-2687	2.2	74
638	Sterols in a psychrophilic methanotroph, Methylosphaera hansonii. *FEMS Microbiology Letters*, **2000** , 186, 193-5	2.9	74
637	The effect of the reversed tricarboxylic acid cycle on the 13C contents of bacterial lipids. *Organic Geochemistry*, **1998**, 28, 527-533	3.1	73
636	Water table related variations in the abundance of intact archaeal membrane lipids in a Swedish peat bog. *FEMS Microbiology Letters*, **2004**, 239, 51-6	2.9	73
635	Archaeal remains dominate marine organic matter from the early Albian oceanic anoxic event 1b. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2002**, 185, 211-234	2.9	73
634	Sources and distributions of branched and isoprenoid tetraether lipids on the Amazon shelf and fan: Implications for the use of GDGT-based proxies in marine sediments. *Geochimica Et Cosmochimica Acta*, **2014**, 139, 293-312	5.5	72
633	A perturbed hydrological cycle during Oceanic Anoxic Event 2. *Geology*, **2014**, 42, 123-126	5	72
632	Influence of deep-water derived isoprenoid tetraether lipids on the TEX86H paleothermometer in the Mediterranean Sea. *Geochimica Et Cosmochimica Acta*, **2015**, 150, 125-141	5.5	72

631	The effect of clay minerals on diasterane/sterane ratios. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 2923-2929	5.5	72
630	Twentieth century proxy records of temperature and soil organic matter input in the Drammensfjord, southern Norway. *Organic Geochemistry*, **2007**, 38, 1838-1849	3.1	72
629	13C values and radiocarbon dates of microbial biomarkers as tracers for carbon recycling in peat deposits. *Geology*, **2000**, 28, 663	5	72
628	A comparative study of macromolecular substances of a Coorongite and cell walls of the extant alga Botryococcus braunii. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 2053-2068	5.5	72
627	An avian equivalent of make-up?. *Ecology Letters*, **1999**, 2, 201-203	10	71
626	Assessment of soil <i>n</i>-alkane <i>D</i> and branched tetraether membrane lipid distributions as tools for paleoelevation reconstruction. *Biogeosciences*, **2009**, 6, 2799-2807	4.6	70
625	Sulphurisation of homohopanoids: Effects on carbon number distribution, speciation, and 22S22R epimer ratios. *Geochimica Et Cosmochimica Acta*, **1997**, 61, 2431-2452	5.5	70
624	The carbon isotopic response of algae, (cyano)bacteria, archaea and higher plants to the late Cenomanian perturbation of the global carbon cycle: Insights from biomarkers in black shales from the Cape Verde Basin (DSDP Site 367). *Organic Geochemistry*, **2008**, 39, 1703-1718	3.1	70
623	Ladderane phospholipids in anammox bacteria comprise phosphocholine and phosphoethanolamine headgroups. *FEMS Microbiology Letters*, **2006**, 258, 297-304	2.9	70
622	Laboratory simulation of natural sulphurization: II. Reaction of multi-functionalized lipids with inorganic polysulphides at low temperatures. *Organic Geochemistry*, **1994**, 22, 825-IN14	3.1	70
621	Investigating pathways of diagenetic organic matter sulfurization using compound-specific sulfur isotope analysis. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 3489-3502	5.5	69
620	Sulphur-bound steroid and phytane carbon skeletons in geomacromolecules: Implications for the mechanism of incorporation of sulphur into organic matter. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 2515-2528	5.5	69
619	A molecular organic carbon isotope record of miocene climate changes. *Science*, **1994**, 263, 1122-5	33.3	69
618	Similar morphological and chemical variations of Gloeocapsomorpha prisca in Ordovician sediments and cultured Botryococcus braunii as a response to changes in salinity. *Organic Geochemistry*, **1992**, 19, 299-313	3.1	69
617	Nickel boride: an improved desulphurizing agent for sulphur-rich geomacromolecules in polar and asphaltene fractions. *Organic Geochemistry*, **1993**, 20, 901-909	3.1	69
616	Major changes in glacial and Holocene terrestrial temperatures and sources of organic carbon recorded in the Amazon fan by tetraether lipids. *Geochemistry, Geophysics, Geosystems*, **2010**, 11, n/a-n/a	3.6	68
615	16S rRNA gene and lipid biomarker evidence for anaerobic ammonium-oxidizing bacteria (anammox) in California and Nevada hot springs. *FEMS Microbiology Ecology*, **2009**, 67, 343-50	4.3	68
614	The Cenomanian/Turonian oceanic anoxic event in the South Atlantic: New insights from a geochemical study of DSDP Site 530A. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2008**, 267, 256-283	2.9	68

613	GEOCHEMICAL CHARACTERIZATION OF CENOMANIAN/TURONIAN BLACK SHALES FROM THE TARFAYA BASIN (SW MOROCCO). *Journal of Petroleum Geology*, **2002**, 25, 325-350	1.9	68
612	Biosynthetic controls on the 13C contents of organic components in the photoautotrophic bacterium Chloroflexus aurantiacus. *Journal of Biological Chemistry*, **2001**, 276, 10971-6	5.4	68
611	Molecular isotopic tracing of carbon flow and trophic relationships in a methane-supported benthic microbial community. *Limnology and Oceanography*, **2002**, 47, 1694-1701	4.8	68
610	Evidence for anaerobic methane oxidation by archaea in euxinic waters of the Black Sea. *Organic Geochemistry*, **2001**, 32, 1277-1281	3.1	68
609	Isorenieratene derivatives in sediments: possible controls on their distribution. *Geochimica Et Cosmochimica Acta*, **2001**, 65, 1557-1571	5.5	68
608	Natural sulphurization of ketones and aldehydes: A key reaction in the formation of organic sulphur compounds. *Geochimica Et Cosmochimica Acta*, **1993**, 57, 5111-5116	5.5	68
607	Zavarzinella formosa gen. nov., sp. nov., a novel stalked, Gemmata-like planctomycete from a Siberian peat bog. *International Journal of Systematic and Evolutionary Microbiology*, **2009**, 59, 357-64	2.2	67
606	An experimental field study to test the stability of lipids used for the TEX86 and palaeothermometers. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 2888-2898	5.5	67
605	Application of the TEX86 temperature proxy to the southern North Sea. *Organic Geochemistry*, **2006**, 37, 1715-1726	3.1	67
604	High-latitude obliquity as a dominant forcing in the Agulhas current system. *Climate of the Past*, **2011**, 7, 1285-1296	3.9	66
603	Strong climate coupling of terrestrial and marine environments in the Miocene of northwest Europe. *Earth and Planetary Science Letters*, **2009**, 281, 215-225	5.3	66
602	Holocene climate variations in the western Antarctic Peninsula: evidence for sea ice extent predominantly controlled by changes in insolation and ENSO variability. *Climate of the Past*, **2013**, 9, 1431-1446	3.9	65
601	Distribution of Crenarchaeota tetraether membrane lipids in surface sediments from the Red Sea. *Organic Geochemistry*, **2009**, 40, 724-731	3.1	65
600	Onset of long-term cooling of Greenland near the Eocene-Oligocene boundary as revealed by branched tetraether lipids. *Geology*, **2008**, 36, 147	5	65
599	Seasonal and spatial variation in the sources and fluxes of long chain diols and mid-chain hydroxy methyl alkanoates in the Arabian Sea. *Organic Geochemistry*, **2007**, 38, 165-179	3.1	65
598	An example of oxidative polymerization of unsaturated fatty acids as a preservation pathway for dinoflagellate organic matter. *Organic Geochemistry*, **2004**, 35, 1129-1139	3.1	65
597	Bacteriohopanepolyol signatures as markers for methanotrophic bacteria in peat moss. *Geochimica Et Cosmochimica Acta*, **2012**, 77, 52-61	5.5	64
596	Biomarker geochemistry of a foreland basin: the Oligocene Menilite Formation in the Flysch Carpathians of Southeast Poland. *Organic Geochemistry*, **1998**, 29, 649-669	3.1	64

595	The chemical structure of Gloeocapsomorpha prisca microfossils: implications for their origin. *Geochimica Et Cosmochimica Acta*, **2001**, 65, 885-900	5.5	64
594	The similarity of chemical structures of soluble aliphatic polyaldehyde and insoluble algaenan in the green microalga Botryococcus braunii race A as revealed by analytical pyrolysis. *Organic Geochemistry*, **1994**, 21, 423-435	3.1	64
593	Identification of C2?C4 alkylated benzenes in flash pyrolysates of kerogens, coals and asphaltenes. *Journal of Chromatography A*, **1992**, 606, 211-220	4.5	64
592	Comparison of organic (UK'37, TEXH86, LDI) and faunal proxies (foraminiferal assemblages) for reconstruction of late Quaternary sea surface temperature variability from offshore southeastern Australia. *Paleoceanography*, **2013**, 28, 377-387		63
591	Switch to diester preen waxes may reduce avian nest predation by mammalian predators using olfactory cues. *Journal of Experimental Biology*, **2005**, 208, 4199-202	3	63
590	Molecular analysis of sulphur-rich brown coals by flash pyrolysis□as chromatography□mass spectrometry. *Journal of Chromatography A*, **1992**, 607, 361-376	4.5	63
589	An interlaboratory study of TEX86 and BIT analysis of sediments, extracts, and standard mixtures. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 5263-5285	3.6	62
588	Reconstruction of water column anoxia in the equatorial Atlantic during the Cenomanian□uronian oceanic anoxic event using biomarker and trace metal proxies. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2009**, 280, 489-498	2.9	62
587	Synchronous negative carbon isotope shifts in marine and terrestrial biomarkers at the onset of the early Aptian oceanic anoxic event 1a: Evidence for the release of 13C-depleted carbon into the atmosphere. *Paleoceanography*, **2007**, 22, n/a-n/a		62
586	Impact of flood events on the transport of terrestrial organic matter to the ocean: A study of the Tˆ t River (SW France) using the BIT index. *Organic Geochemistry*, **2007**, 38, 1593-1606	3.1	62
585	Structural identification of the C25 highly branched isoprenoid pentaene in the marine diatom Rhizosolenia setigera. *Organic Geochemistry*, **1999**, 30, 1581-1583	3.1	62
584	A progressively wetter climate in southern East Africa over the past 1.3 million years. *Nature*, **2016**, 537, 220-224	50.4	62
583	The tropical lapse rate steepened during the Last Glacial Maximum. *Science Advances*, **2017**, 3, e1600815	14.3	61
582	A hydrophobic ammonia-oxidizing archaeon of the Nitrosocosmicus clade isolated from coal tar-contaminated sediment. *Environmental Microbiology Reports*, **2016**, 8, 983-992	3.7	61
581	Sea surface temperature variations in the western Mediterranean Sea over the last 20 kyr: A dual-organic proxy (UK?37 and LDI) approach. *Paleoceanography*, **2014**, 29, 87-98		61
580	Pronounced subsurface cooling of North Atlantic waters off Northwest Africa during Dansgaard□eschger interstadials. *Earth and Planetary Science Letters*, **2012**, 339-340, 95-102	5.3	61
579	On the potential application of polar and temperate marine microalgae for EPA and DHA production. *AMB Express*, **2013**, 3, 26	4.1	60
578	A continental-weathering control on orbitally driven redox-nutrient cycling during Cretaceous Oceanic Anoxic Event 2. *Geology*, **2015**, 43, 963-966	5	60

577	Biomarkers, chemistry and microbiology show chemoautotrophy in a multilayer chemocline in the Cariaco Basin. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2012**, 63, 133-156	2.5	60
576	Characterization of Estonian Kukersite by spectroscopy and pyrolysis: Evidence for abundant alkyl phenolic moieties in an Ordovician, marine, type II/I kerogen. *Organic Geochemistry*, **1990**, 16, 873-888	3.1	60
575	Intact polar and core glycerol dibiphytanyl glycerol tetraether lipids in the Arabian Sea oxygen minimum zone. Part II: Selective preservation and degradation in sediments and consequences for the TEX86. *Geochimica Et Cosmochimica Acta*, **2012**, 98, 244-258	5.5	59
574	Linking isoprenoidal GDGT membrane lipid distributions with gene abundances of ammonia-oxidizing Thaumarchaeota and uncultured crenarchaeotal groups in the water column of a tropical lake (Lake Challa, East Africa). *Environmental Microbiology*, **2013**, 15, 2445-62	5.2	59
573	Characterisation of an extremely organic sulphur-rich, 150Ma old carbonaceous rock: palaeoenvironmental implications. *Organic Geochemistry*, **1997**, 27, 371-397	3.1	59
572	A C25 highly branched isoprenoid alkene and C25 and C27 n-polyenes in the marine diatom Rhizosolenia setigera. *Organic Geochemistry*, **1999**, 30, 95-100	3.1	59
571	Organic sulphur in macromolecular sedimentary organic matter. II. Analysis of distributions of sulphur-containing pyrolysis products using multivariate techniques. *Geochimica Et Cosmochimica Acta*, **1992**, 56, 1545-1560	5.5	59
570	Lacipirellula parvula gen. nov., sp. nov., representing a lineage of planctomycetes widespread in low-oxygen habitats, description of the family Lacipirellulaceae fam. nov. and proposal of the orders Pirellulales ord. nov., Gemmatales ord. nov. and Isosphaerales ord. nov. *Systematic and Applied Microbiology*, **2020**, 43, 126050	4.2	59
569	Evidence for Cretaceous-Paleogene boundary bolide "impact winter" conditions from New Jersey, USA. *Geology*, **2016**, 44, 619-622	5	59
568	Isolation and characterization of a prokaryotic cell organelle from the anammox bacterium Kuenenia stuttgartiensis. *Molecular Microbiology*, **2014**, 94, 794-802	4.1	58
567	A mid-Holocene thermal maximum at the end of the African Humid Period. *Earth and Planetary Science Letters*, **2012**, 351-352, 95-104	5.3	58
566	Late Pleistocene temperature history of Southeast Africa: A TEX86 temperature record from Lake Malawi. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2011**, 303, 93-102	2.9	58
565	Novel cyclised and aromatised diagenetic products of β-carotene in the Green River Shale. *Organic Geochemistry*, **1997**, 26, 451-466	3.1	58
564	Structural characterization of diabolic acid-based tetraester, tetraether and mixed ether/ester, membrane-spanning lipids of bacteria from the order Thermotogales. *Archives of Microbiology*, **2007**, 188, 629-41	3	58
563	Intermittent euxinia: Reconciliation of a Jurassic black shale with its biofacies. *Geology*, **2004**, 32, 421	5	57
562	Phylogenomic analysis of lipid biosynthetic genes of Archaea shed light on the 'lipid divide'. *Environmental Microbiology*, **2017**, 19, 54-69	5.2	56
561	A mesophilic, autotrophic, ammonia-oxidizing archaeon of thaumarchaeal group I.1a cultivated from a deep oligotrophic soil horizon. *Applied and Environmental Microbiology*, **2014**, 80, 3645-55	4.8	56
560	Seasonal variability of branched glycerol dialkyl glycerol tetraethers (brGDGTs) in a temperate lake system. *Geochimica Et Cosmochimica Acta*, **2014**, 144, 173-187	5.5	56

559	Paleoceanographic changes in the Eastern Equatorial Pacific over the last 10 Myr. *Paleoceanography*, **2012**, 27, n/a-n/a		56
558	In situ production of crenarchaeol in two california hot springs. *Applied and Environmental Microbiology*, **2009**, 75, 4443-51	4.8	56
557	Tetraether membrane lipids of Candidatus "Aciduliprofundum boonei", a cultivated obligate thermoacidophilic euryarchaeote from deep-sea hydrothermal vents. *Extremophiles*, **2008**, 12, 119-24	3	56
556	Bacterial GDGTs in Holocene sediments and catchment soils of a high Alpine lake: application of the MBT/CBT-paleothermometer. *Climate of the Past*, **2012**, 8, 889-906	3.9	56
555	Constraints on the sources of branched tetraether membrane lipids in distal marine sediments. *Organic Geochemistry*, **2014**, 72, 14-22	3.1	55
554	Thermoanaerobaculum aquaticum gen. nov., sp. nov., the first cultivated member of Acidobacteria subdivision 23, isolated from a hot spring. *International Journal of Systematic and Evolutionary Microbiology*, **2013**, 63, 4149-4157	2.2	55
553	High sea-surface temperatures during the early Aptian Oceanic Anoxic Event 1a in the Boreal Realm. *Geology*, **2014**, 42, 439-442	5	55
552	Comparison of extraction and work up techniques for analysis of core and intact polar tetraether lipids from sedimentary environments. *Organic Geochemistry*, **2012**, 47, 34-40	3.1	55
551	Bryocella elongata gen. nov., sp. nov., a member of subdivision 1 of the Acidobacteria isolated from a methanotrophic enrichment culture, and emended description of Edaphobacter aggregans Koch et al. 2008. *International Journal of Systematic and Evolutionary Microbiology*, **2012**, 62, 654-664	2.2	55
550	Biogeochemical controls on glycerol dialkyl glycerol tetraether lipid distributions in sediments characterized by diffusive methane flux. *Geochemistry, Geophysics, Geosystems*, **2011**, 12, n/a-n/a	3.6	55
549	Identification and distribution of intact polar branched tetraether lipids in peat and soil. *Organic Geochemistry*, **2011**, 42, 1007-1015	3.1	55
548	Cultivation and genomic, nutritional, and lipid biomarker characterization of Roseiflexus strains closely related to predominant in situ populations inhabiting Yellowstone hot spring microbial mats. *Journal of Bacteriology*, **2010**, 192, 3033-42	3.5	55
547	Ancient DNA derived from alkenone-biosynthesizing haptophytes and other algae in Holocene sediments from the Black Sea. *Paleoceanography*, **2006**, 21, n/a-n/a		55
546	C(25) highly branched isoprenoid alkenes from the marine benthic diatom Pleurosigma strigosum. *Phytochemistry*, **2004**, 65, 3049-55	4	55
545	The lycopane/C31 n-alkane ratio as a proxy to assess palaeoxicity during sediment deposition. *Earth and Planetary Science Letters*, **2003**, 209, 215-226	5.3	55
544	Early steroid sulfurisation in surface sediments of a permanently stratified lake (Ace Lake, Antarctica). *Geochimica Et Cosmochimica Acta*, **2000**, 64, 1425-1436	5.5	55
543	A multi-proxy study of anaerobic ammonium oxidation in marine sediments of the Gullmar Fjord, Sweden. *Environmental Microbiology Reports*, **2011**, 3, 360-6	3.7	54
542	Preservation potential of ancient plankton DNA in Pleistocene marine sediments. *Geobiology*, **2011**, 9, 377-93	4.3	54

541	Mid-chain hydroxy long-chain fatty acids in microalgae from the genus Nannochloropsis. *Phytochemistry*, **1997**, 45, 641-646	4	54
540	A comparative study of fossil and extant algaenans using ruthenium tetroxide degradation. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 2055-2065	5.5	54
539	Drastic changes in the distribution of branched tetraether lipids in suspended matter and sediments from the Yenisei River and Kara Sea (Siberia): Implications for the use of brGDGT-based proxies in coastal marine sediments. *Geochimica Et Cosmochimica Acta*, **2015**, 165, 200-225	5.5	53
538	The Eocene Arctic Azolla bloom: environmental conditions, productivity and carbon drawdown. *Geobiology*, **2009**, 7, 155-70	4.3	53
537	2,3,6-/3,4,5-Trimethyl substituted diaryl carotenoid derivatives (Chlorobiaceae) in petroleums of the Belarussian Pripyat River Basin. *Organic Geochemistry*, **1998**, 29, 1253-1267	3.1	53
536	Aegean Sea as driver of hydrographic and ecological changes in the eastern Mediterranean. *Geology*, **2007**, 35, 675	5	53
535	An experimental study of the low-temperature sulfurization of carbohydrates. *Organic Geochemistry*, **2003**, 34, 1129-1144	3.1	53
534	Anaerobic biodegradation of lipids of the marine microalga Nannochloropsis salina. *Organic Geochemistry*, **2001**, 32, 795-808	3.1	53
533	Molecular indicators for palaeoenvironmental change in a Messinian evaporitic sequence (Vena del Gesso, Italy). I: Variations in extractable organic matter of ten cyclically deposited marl beds. *Organic Geochemistry*, **1995**, 23, 471-483	3.1	53
532	Alkylpyrroles in a kerogen pyrolysate: Evidence for abundant tetrapyrrole pigments. *Geochimica Et Cosmochimica Acta*, **1992**, 56, 1743-1751	5.5	53
531	Identification of long-chain 1,2-di-n-alkylbenzenes in Amposta crude oil from the Tarragona Basin, Spanish Mediterranean: Implications for the origin and fate of alkylbenzenes. *Geochimica Et Cosmochimica Acta*, **1991**, 55, 3677-3683	5.5	53
530	Molecular fossils from phytoplankton reveal secular co trend over the Phanerozoic. *Science Advances*, **2018**, 4, eaat4556	14.3	53
529	Redox-dependent niche differentiation provides evidence for multiple bacterial sources of glycerol tetraether lipids in lakes. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10926-10931	11.5	53
528	Telmatocola sphagniphila gen. nov., sp. nov., a novel dendriform planctomycete from northern wetlands. *Frontiers in Microbiology*, **2012**, 3, 146	5.7	52
527	A 26 million year gap in the central Arctic record at the greenhouse-icehouse transition: Looking for clues. *Paleoceanography*, **2008**, 23, n/a-n/a		52
526	On the origin of 24-norcholestanes and their use as age-diagnostic biomarkers. *Geology*, **2007**, 35, 419	5	52
525	Compound-specific isotopic fractionation patterns suggest different carbon metabolisms among Chloroflexus-like bacteria in hot-spring microbial mats. *Applied and Environmental Microbiology*, **2003**, 69, 6000-6	4.8	52
524	A 400-year record of environmental change in an euxinic fjord as revealed by the sedimentary biomarker record. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2004**, 202, 331-351	2.9	52

523	Distribution of branched tetraether lipids in geothermally heated soils: Implications for the MBT/CBT temperature proxy. *Organic Geochemistry*, **2009**, 40, 201-205	3.1	51
522	Sulphur and oxygen sequestration of n-C37 and n-C38 unsaturated ketones in an immature kerogen and the release of their carbon skeletons during early stages of thermal maturation. *Geochimica Et Cosmochimica Acta*, **1997**, 61, 2397-2408	5.5	51
521	A molecular and carbon isotope biogeochemical study of biomarkers and kerogen pyrolysates of the Kimmeridge Clay Facies: palaeoenvironmental implications. *Organic Geochemistry*, **1997**, 27, 399-422	3.1	51
520	A radiocarbon-based assessment of the preservation characteristics of crenarchaeol and alkenones from continental margin sediments. *Organic Geochemistry*, **2008**, 39, 1039-1045	3.1	51
519	Membrane tetraether lipids of planktonic Crenarchaeota in Pliocene sapropels of the eastern Mediterranean Sea. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2006**, 239, 1-15	2.9	51
518	Life at cold seeps: a synthesis of biogeochemical and ecological data from Kazan mud volcano, eastern Mediterranean Sea. *Chemical Geology*, **2004**, 205, 367-390	4.2	51
517	Origin of free and bound mid-chain methyl alkanes in oils, bitumens and kerogens of the marine, Infracambrian Huqf Formation (Oman). *Organic Geochemistry*, **1999**, 30, 1411-1428	3.1	51
516	Molecular Characterization of Flash Pyrolyzates of Two Carboniferous Coals and Their Constituting Maceral Fractions. *Energy & Fuels*, **1994**, 8, 1055-1067	4.1	51
515	Acidicapsa borealis gen. nov., sp. nov. and Acidicapsa ligni sp. nov., subdivision 1 Acidobacteria from Sphagnum peat and decaying wood. *International Journal of Systematic and Evolutionary Microbiology*, **2012**, 62, 1512-1520	2.2	50
514	Seasonal changes in glycerol dialkyl glycerol tetraether concentrations and fluxes in a perialpine lake: Implications for the use of the TEX86 and BIT proxies. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 6416-6428	5.5	50
513	Modeling the influence of a reduced equator-to-pole sea surface temperature gradient on the distribution of water isotopes in the Early/Middle Eocene. *Earth and Planetary Science Letters*, **2010**, 298, 57-65	5.3	50
512	An interlaboratory study of TEX86 and BIT analysis using high-performance liquid chromatography□mass spectrometry. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	50
511	Artificial maturation of an immature sulfur- and organic matter-rich limestone from the Ghareb Formation, Jordan. *Organic Geochemistry*, **1998**, 28, 503-521	3.1	50
510	A 90 kyr upwelling record from the northwestern Indian Ocean using a novel long-chain diol index. *Earth and Planetary Science Letters*, **2008**, 276, 207-213	5.3	50
509	Ongoing buildup of refractory organic carbon in boreal soils during the Holocene. *Science*, **2006**, 314, 1283-6	33.3	50
508	Geochemistry of Sulfur in Petroleum Systems. *ACS Symposium Series*, **1990**, 2-29	0.4	50
507	Fossilized glycolipids reveal past oceanic N2 fixation by heterocystous cyanobacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 19190-4	11.5	49
506	Rapid warming and salinity changes of Cretaceous surface waters in the subtropical North Atlantic. *Geology*, **2008**, 36, 203	5	49

505	Anammox organisms: enrichment, cultivation, and environmental analysis. *Methods in Enzymology*, **2005**, 397, 34-57	1.7	49
504	Archaeal and bacterial lipids in authigenic carbonate crusts from eastern Mediterranean mud volcanoes. *Organic Geochemistry*, **2006**, 37, 484-500	3.1	49
503	Computational chemical investigation into isorenieratene cyclisation. *Organic Geochemistry*, **2003**, 34, 515-526	3.1	49
502	Molecular structure of the resistant biopolymer in zygospore cell walls of Chlamydomonas monoica. *Planta*, **1999**, 207, 539-543	4.7	49
501	Thermal stability of thiophene biomarkers as studied by hydrous pyrolysis. *Organic Geochemistry*, **1995**, 23, 583-596	3.1	49
500	Identification of long-chain isoprenoid alkylbenzenes in sediments and crude oils. *Geochimica Et Cosmochimica Acta*, **1988**, 52, 2671-2677	5.5	49
499	The effects of growth phase and salinity on the hydrogen isotopic composition of alkenones produced by coastal haptophyte algae. *Geochimica Et Cosmochimica Acta*, **2014**, 140, 381-390	5.5	48
498	Salinity dependent hydrogen isotope fractionation in alkenones produced by coastal and open ocean haptophyte algae. *Geochimica Et Cosmochimica Acta*, **2014**, 130, 126-135	5.5	48
497	Bacterial tetraether membrane lipids in peat and coal: Testing the MBT□CBT temperature proxy for climate reconstruction. *Organic Geochemistry*, **2011**, 42, 477-486	3.1	48
496	Distribution of heterocyst glycolipids in cyanobacteria. *Phytochemistry*, **2009**, 70, 2034-9	4	48
495	Nitrogen isotopic fractionation associated with growth on dinitrogen gas and nitrate by cyanobacteria. *Limnology and Oceanography*, **2009**, 54, 1403-1411	4.8	48
494	A molecular stable carbon isotope study of organic matter in immature Miocene Monterey sediments, Pismo basin. *Geochimica Et Cosmochimica Acta*, **1997**, 61, 2065-2082	5.5	48
493	A molecular and stable carbon isotopic study of lipids in late Quaternary sediments from the Arabian Sea. *Organic Geochemistry*, **2000**, 31, 509-521	3.1	48
492	Screening of anthropogenic compounds in polluted sediments and soils by flash evaporation/pyrolysis gas chromatography-mass spectrometry. *Analytical Chemistry*, **1986**, 58, 1852-1857	7.8	48
491	Discovery of anaerobic lithoheterotrophic haloarchaea, ubiquitous in hypersaline habitats. *ISME Journal*, **2017**, 11, 1245-1260	11.9	47
490	Holocene subsurface temperature variability in the eastern Antarctic continental margin. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	47
489	The presence of ladderane lipids in the oxygen minimum zone of the Arabian Sea indicates nitrogen loss through anammox. *Limnology and Oceanography*, **2007**, 52, 780-786	4.8	47
488	Reconstruction of sea surface temperature variations in the Arabian Sea over the last 23 kyr using organic proxies (TEX86 and U37K?). *Paleoceanography*, **2006**, 21,		47

487	Organosulfur Compounds in Sulfur-Rich Ra Coal. *Energy & Fuels*, **1999**, 13, 728-738	4.1	47
486	Influence of lake water pH and alkalinity on the distribution of core and intact polar branched glycerol dialkyl glycerol tetraethers (GDGTs) in lakes. *Organic Geochemistry*, **2013**, 60, 72-82	3.1	46
485	Structural characterization of aliphatic, non-hydrolyzable biopolymers in freshwater algae and a leaf cuticle using ruthenium tetroxide degradation. *Phytochemistry*, **1998**, 49, 987-993	4	46
484	Organically bound sulphur in coal: A molecular approach. *Fuel Processing Technology*, **1992**, 30, 109-178	7.2	46
483	Occurrence and activity of anammox bacteria in surface sediments of the southern North Sea. *FEMS Microbiology Ecology*, **2014**, 89, 99-110	4.3	45
482	Paludibaculum fermentans gen. nov., sp. nov., a facultative anaerobe capable of dissimilatory iron reduction from subdivision 3 of the Acidobacteria. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 2857-2864	2.2	45
481	Climate induced human demographic and cultural change in northern Europe during the mid-Holocene. *Scientific Reports*, **2017**, 7, 15251	4.9	45
480	Impact of temperature on ladderane lipid distribution in anammox bacteria. *Applied and Environmental Microbiology*, **2010**, 76, 1596-603	4.8	45
479	Carbonate formation by anaerobic oxidation of methane: Evidence from lipid biomarker and fossil 16S rDNA. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 1824-1836	5.5	45
478	Organic-carbon deposition in the Cretaceous of the Ionian Basin, NW Greece: the Paquier Event (OAE 1b) revisited. *Geological Magazine*, **2004**, 141, 401-416	2	45
477	Archaeal lipids and anaerobic oxidation of methane in euxinic water columns: a comparative study of the Black Sea and Cariaco Basin. *Chemical Geology*, **2004**, 205, 427-442	4.2	45
476	Characterization of a deep-sea microbial mat from an active cold seep at the Milano mud volcano in the Eastern Mediterranean Sea. *FEMS Microbiology Ecology*, **2005**, 54, 47-56	4.3	45
475	A molecular isotopic study of 13C-enriched organic matter in evaporitic deposits: recognition of CO2-limited ecosystems. *Organic Geochemistry*, **2001**, 32, 277-286	3.1	45
474	Organic Sulfur Compounds and Other Biomarkers as Indicators of Palaeosalinity. *ACS Symposium Series*, **1990**, 417-443	0.4	45
473	Temperature-induced increase in methane release from peat bogs: a mesocosm experiment. *PLoS ONE*, **2012**, 7, e39614	3.7	45
472	BayMBT: A Bayesian calibration model for branched glycerol dialkyl glycerol tetraethers in soils and peats. *Geochimica Et Cosmochimica Acta*, **2020**, 268, 142-159	5.5	45
471	Nitrolancea hollandica gen. nov., sp. nov., a chemolithoautotrophic nitrite-oxidizing bacterium isolated from a bioreactor belonging to the phylum Chloroflexi. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 1859-1865	2.2	44
470	Effects of temperature, pH and nutrient concentration on branched GDGT distributions in East African lakes: Implications for paleoenvironmental reconstruction. *Organic Geochemistry*, **2014**, 66, 25-37	3.1	44

469	Compound-specific radiocarbon dating of the varved Holocene sedimentary record of Saanich Inlet, Canada. *Paleoceanography*, **2004**, 19, n/a-n/a		44
468	Reconstruction of changes in export productivity during Pliocene sapropel deposition: a biomarker approach. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2003**, 190, 273-287	2.9	44
467	Source-specific variability in post-depositional DNA preservation with potential implications for DNA based paleoecological records. *Organic Geochemistry*, **2011**, 42, 1216-1225	3.1	43
466	Comparison of ladderane phospholipid and core lipids as indicators for anaerobic ammonium oxidation (anammox) in marine sediments. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 2077-2088	5.5	43
465	Methanonatronarchaeum thermophilum gen. nov., sp. nov. and 'Candidatus Methanohalarchaeum thermophilum', extremely halo(natrono)philic methyl-reducing methanogens from hypersaline lakes comprising a new euryarchaeal class Methanonatronarchaeia classis nov. *International Journal of Systematic and Evolutionary Microbiology*, **2018**, 68, 2199-2208	2.2	43
464	Palynological evidence for prolonged cooling along the Tunisian continental shelf following the K□g boundary impact. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2015**, 426, 216-228	2.9	42
463	Lipid biomarkers as major source and preservation indicators in SE Atlantic surface sediments. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2004**, 51, 1199-1228	2.5	42
462	Scope and limitations of flash pyrolysis□as chromatography/mass spectrometry as revealed by the thermal behaviour of high-molecular-weight lipids derived from the green microalga Botryococcus braunii. *Journal of Analytical and Applied Pyrolysis*, **1994**, 28, 183-204	6	42
461	Thiophenic biomarkers for palaeoenvironmental assessment and molecular stratigraphy. *Nature*, **1990**, 345, 609-611	50.4	42
460	The Origin and Fate of Isoprenoid C20 and C15 Sulphur Compounds in Sediments and Oils. *International Journal of Environmental Analytical Chemistry*, **1987**, 28, 1-19	1.8	42
459	Climate conditions in the westernmost Mediterranean over the last two millennia: An integrated biomarker approach. *Organic Geochemistry*, **2013**, 55, 1-10	3.1	41
458	Origin of low-molecular-weight alkylthiophenes in pyrolysates of sulphur-rich kerogens as revealed by micro-scale sealed vessel pyrolysis. *Organic Geochemistry*, **1998**, 29, 1891-1903	3.1	41
457	Impact of carbon metabolism on 13C signatures of cyanobacteria and green non-sulfur-like bacteria inhabiting a microbial mat from an alkaline siliceous hot spring in Yellowstone National Park (USA). *Environmental Microbiology*, **2007**, 9, 482-91	5.2	41
456	The impact of recycling of organic carbon on the stable carbon isotopic composition of dissolved inorganic carbon in a stratified marine system (Kyllaren fjord, Norway). *Organic Geochemistry*, **2005**, 36, 1163-1173	3.1	41
455	Improved analysis of ladderane lipids in biomass and sediments using high-performance liquid chromatography/atmospheric pressure chemical ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2006**, 20, 2099-103	2.2	41
454	Chemical and microscopic characterization of outer seed coats of fossil and extant water plants. *Geochimica Et Cosmochimica Acta*, **1994**, 58, 3823-3844	5.5	41
453	Chemical and microscopical characterization of inner seed coats of fossil water plants. *Geochimica Et Cosmochimica Acta*, **1994**, 58, 231-239	5.5	41
452	C27□30 neohop-13(18)-enes and their saturated and aromatic derivatives in sediments: Indicators for diagenesis and water column stratification. *Geochimica Et Cosmochimica Acta*, **2014**, 133, 402-421	5.5	40

451	Occurrence of long chain 1,14-diols in Apedinella radians. *Organic Geochemistry*, **2011**, 42, 572-574	3.1	40
450	Lipid biomarkers preserved in hydrate-associated authigenic carbonate rocks of the Gulf of Mexico. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2005**, 227, 48-66	2.9	40
449	Water column dynamics during the last interglacial anoxic event in the Mediterranean (sapropel S5). *Paleoceanography*, **2006**, 21, n/a-n/a		40
448	Marine crenarchaeotal membrane lipids in decapods: Implications for the TEX86 paleothermometer. *Geochemistry, Geophysics, Geosystems*, **2006**, 7, n/a-n/a	3.6	40
447	Rapid isolation of biomarkers for compound specific radiocarbon dating using high-performance liquid chromatography and flow injection analysis-atmospheric pressure chemical ionisation mass spectrometry. *Journal of Chromatography A*, **2002**, 978, 129-40	4.5	40
446	The C32 alkane-1,15-diol as a tracer for riverine input in coastal seas. *Geochimica Et Cosmochimica Acta*, **2017**, 202, 146-158	5.5	39
445	Sources and proxy potential of long chain alkyl diols in lacustrine environments. *Geochimica Et Cosmochimica Acta*, **2014**, 144, 59-71	5.5	39
444	Impact of lateral transport on organic proxies in the Southern Ocean. *Quaternary Research*, **2009**, 71, 246-250	1.9	39
443	Cell wall-specific ω-hydroxy fatty acids in some freshwater green microalgae. *Phytochemistry*, **1998**, 49, 691-695	4	39
442	Rapid sulfurisation of highly branched isoprenoid (HBI) alkenes in sulfidic Holocene sediments from Ellis Fjord, Antarctica. *Organic Geochemistry*, **2007**, 38, 128-139	3.1	39
441	Mechanisms of flash pyrolysis of ether lipids isolated from the green microalga Botryococcus braunii race A. *Journal of Analytical and Applied Pyrolysis*, **1993**, 27, 155-168	6	39
440	Methanosalsum natronophilum sp. nov., and Methanocalculus alkaliphilus sp. nov., haloalkaliphilic methanogens from hypersaline soda lakes. *International Journal of Systematic and Evolutionary Microbiology*, **2015**, 65, 3739-3745	2.2	39
439	Constraints on the application of long chain diol proxies in the Iberian Atlantic margin. *Organic Geochemistry*, **2016**, 101, 184-195	3.1	39
438	The influence of vegetation on soil water repellency-markers and soil hydrophobicity. *Science of the Total Environment*, **2016**, 566-567, 608-620	10.2	38
437	Abrupt vegetation change after the Late Quaternary megafaunal extinction in southeastern Australia. *Nature Geoscience*, **2013**, 6, 627-631	18.3	38
436	Large ancient organic matter contributions to Arctic marine sediments (Svalbard). *Limnology and Oceanography*, **2011**, 56, 1463-1474	4.8	38
435	Holocene changes in Proboscia diatom productivity in shelf waters of the north-western Antarctic Peninsula. *Antarctic Science*, **2010**, 22, 3	1.7	38
434	Novel archaeal macrocyclic diether core membrane lipids in a methane-derived carbonate crust from a mud volcano in the Sorokin Trough, NE Black Sea. *Archaea*, **2003**, 1, 165-73	2	38

433	Development of photic zone euxinia in the eastern Mediterranean Basin during deposition of Pliocene sapropels. *Marine Geology*, **2002**, 189, 215-226	3.3	38
432	Pre- and post-industrial environmental changes as revealed by the biogeochemical sedimentary record of Drammensfjord, Norway. *Marine Geology*, **2005**, 214, 177-200	3.3	38
431	Identification and geochemical significance of cyclic di-and trisulphides with linear and acyclic isoprenoid carbon skeletons in immature sediments. *Geochimica Et Cosmochimica Acta*, **1991**, 55, 3685-3695	5.5	38
430	Evaluation of long chain 1,14-alkyl diols in marine sediments as indicators for upwelling and temperature. *Organic Geochemistry*, **2014**, 76, 39-47	3.1	37
429	Vertical and temporal variability in concentration and distribution of thaumarchaeotal tetraether lipids in Lake Superior and the implications for the application of the TEX86 temperature proxy. *Geochimica Et Cosmochimica Acta*, **2012**, 87, 136-153	5.5	37
428	Distribution of glycerol dialkyl glycerol tetraether lipids in the water column of Lake Tanganyika. *Organic Geochemistry*, **2012**, 53, 34-37	3.1	37
427	Latitudinal differences in the amplitude of the OAE-2 carbon isotopic excursion: <i>p</i>CO₂ and paleo productivity. *Biogeosciences*, **2012**, 9, 717-731	4.6	37
426	Molecular evidence for anaerobic ammonium-oxidizing (anammox) bacteria in continental shelf and slope sediments off northwest Africa. *Limnology and Oceanography*, **2010**, 55, 365-376	4.8	37
425	A kinetic calculation method of homohopanoid maturation: Applications in the reconstruction of burial histories of sedimentary basins. *Geochimica Et Cosmochimica Acta*, **1997**, 61, 2409-2429	5.5	37
424	Desulfatirhabdium butyrativorans gen. nov., sp. nov., a butyrate-oxidizing, sulfate-reducing bacterium isolated from an anaerobic bioreactor. *International Journal of Systematic and Evolutionary Microbiology*, **2008**, 58, 110-5	2.2	37
423	Fatty acid, compatible solute and pigment composition of obligately chemolithoautotrophic alkaliphilic sulfur-oxidizing bacteria from soda lakes. *FEMS Microbiology Letters*, **2005**, 243, 181-7	2.9	37
422	Biological source and provenance of deep-water derived isoprenoid tetraether lipids along the Portuguese continental margin. *Geochimica Et Cosmochimica Acta*, **2016**, 172, 177-204	5.5	37
421	Anaerobic ammonium-oxidising bacteria: A biological source of the bacteriohopanetetrol stereoisomer in marine sediments. *Geochimica Et Cosmochimica Acta*, **2014**, 140, 50-64	5.5	36
420	Genome analysis of Chitinivibrio alkaliphilus gen. nov., sp. nov., a novel extremely haloalkaliphilic anaerobic chitinolytic bacterium from the candidate phylum Termite Group 3. *Environmental Microbiology*, **2014**, 16, 1549-65	5.2	36
419	Novel mono-, di-, and trimethylornithine membrane lipids in northern wetland planctomycetes. *Applied and Environmental Microbiology*, **2013**, 79, 6874-84	4.8	36
418	(Per)chlorate reduction by an acetogenic bacterium, Sporomusa sp., isolated from an underground gas storage. *Applied Microbiology and Biotechnology*, **2010**, 88, 595-603	5.7	36
417	An unusual isoprenoid tetraether lipid in marine and lacustrine sediments. *Organic Geochemistry*, **2008**, 39, 1033-1038	3.1	36
416	Characterization of Organically Bound Sulfur in High-Molecular-Weight, Sedimentary Organic Matter Using Flash Pyrolysis and Raney Ni Desulfurization. *ACS Symposium Series*, **1990**, 486-528	0.4	36

415	Using tetraether lipids archived in North Sea Basin sediments to extract North Western European Pliocene continental air temperatures. *Earth and Planetary Science Letters*, **2018**, 490, 193-205	5.3	35
414	Are Marine Group II Euryarchaeota significant contributors to tetraether lipids in the ocean?. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E4285	11.5	35
413	Pyrinomonas methylaliphatogenes gen. nov., sp. nov., a novel group 4 thermophilic member of the phylum Acidobacteria from geothermal soils. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 220-227	2.2	35
412	Presence and diversity of anammox bacteria in cold hydrocarbon-rich seeps and hydrothermal vent sediments of the Guaymas Basin. *Frontiers in Microbiology*, **2013**, 4, 219	5.7	35
411	Preservation of carbohydrates through sulfurization in a Jurassic euxinic shelf sea: Examination of the Blackstone Band TOC cycle in the Kimmeridge Clay Formation, UK. *Organic Geochemistry*, **2006**, 37, 1052-1073	3.1	35
410	Alkane-1,2-diol-based glycosides and fatty glycosides and wax esters in Roseiflexus castenholzii and hot spring microbial mats. *Archives of Microbiology*, **2002**, 178, 229-37	3	35
409	Diversity of Archaea and detection of crenarchaeotal amoA genes in the rivers Rhine and T‸ ‽. *Aquatic Microbial Ecology*, **2009**, 55, 189-201	1.1	35
408	A combined lipidomic and 16S rRNA gene amplicon sequencing approach reveals archaeal sources of intact polar lipids in the stratified Black Sea water column. *Geobiology*, **2019**, 17, 91-109	4.3	35
407	Benthic archaea as potential sources of tetraether membrane lipids in sediments across an oxygen minimum zone. *Biogeosciences*, **2018**, 15, 4047-4064	4.6	34
406	Seasonal variability in the abundance and stable carbon-isotopic composition of lipid biomarkers in suspended particulate matter from a stratified equatorial lake (Lake Chala, Kenya/Tanzania): Implications for the sedimentary record. *Quaternary Science Reviews*, **2018**, 192, 208-224	3.9	34
405	Differential degradation of intact polar and core glycerol dialkyl glycerol tetraether lipids upon post-depositional oxidation. *Organic Geochemistry*, **2013**, 65, 83-93	3.1	34
404	Depth-related distribution of a key gene of the tetraether lipid biosynthetic pathway in marine Thaumarchaeota. *Environmental Microbiology*, **2015**, 17, 3527-39	5.2	34
403	Impact of seasonal hydrological variation on the distributions of tetraether lipids along the Amazon River in the central Amazon basin: implications for the MBT/CBT paleothermometer and the BIT index. *Frontiers in Microbiology*, **2013**, 4, 228	5.7	34
402	Organic geochemical records of environmental variability in Lake Malawi during the last 700 years, Part I: The TEX86 temperature record. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2011**, 303, 133-139	2.9	34
401	Microbial diversity and community structure of a highly active anaerobic methane-oxidizing sulfate-reducing enrichment. *Environmental Microbiology*, **2009**, 11, 3223-32	5.2	34
400	The demise of the alga Botryococcus braunii from a Norwegian fjord was due to early eutrophication. *Holocene*, **2005**, 15, 133-140	2.6	34
399	Gas chromatography/combustion/isotope-ratio-monitoring mass spectrometric analysis of methylboronic derivatives of monosaccharides: a new method for determining natural 13C abundances of carbohydrates. *Rapid Communications in Mass Spectrometry*, **2001**, 15, 496-500	2.2	34
398	Formation of mid-chain alkane keto-ols by post-depositional oxidation of mid-chain diols in Mediterranean sapropels. *Organic Geochemistry*, **2001**, 32, 271-276	3.1	34

397	Halanaeroarchaeum sulfurireducens gen. nov., sp. nov., the first obligately anaerobic sulfur-respiring haloarchaeon, isolated from a hypersaline lake. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 2377-2381	2.2	34
396	Fimbriiglobus ruber gen. nov., sp. nov., a Gemmata-like planctomycete from Sphagnum peat bog and the proposal of Gemmataceae fam. nov. *International Journal of Systematic and Evolutionary Microbiology*, **2017**, 67, 218-224	2.2	34
395	Abundant Trimethylornithine Lipids and Specific Gene Sequences Are Indicative of Planctomycete Importance at the Oxic/Anoxic Interface in Sphagnum-Dominated Northern Wetlands. *Applied and Environmental Microbiology*, **2015**, 81, 6333-44	4.8	33
394	Singulisphaera rosea sp. nov., a planctomycete from acidic Sphagnum peat, and emended description of the genus Singulisphaera. *International Journal of Systematic and Evolutionary Microbiology*, **2012**, 62, 118-123	2.2	33
393	Rapid analysis of long-chain glycolipids in heterocystous cyanobacteria using high-performance liquid chromatography coupled to electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 1387-94	2.2	33
392	Alternative biological sources for 1,2,3,4-tetramethylbenzene in flash pyrolysates of kerogen. *Organic Geochemistry*, **1995**, 23, 975-979	3.1	33
391	Constraints on the applicability of the organic temperature proxies U^{K'}₃₇, TEX₈₆ and LDI in the subpolar region around Iceland. *Biogeosciences*, **2015**, 12, 6573-6590	4.6	32
390	Chryseolinea serpens gen. nov., sp. nov., a member of the phylum Bacteroidetes isolated from soil. *International Journal of Systematic and Evolutionary Microbiology*, **2013**, 63, 654-660	2.2	32
389	Late-Holocene succession of dinoflagellates in an Antarctic fjord using a multi-proxy approach: paleoenvironmental genomics, lipid biomarkers and palynomorphs. *Geobiology*, **2009**, 7, 265-81	4.3	32
388	Biomarker lipids of the freshwater fern Azolla and its fossil counterpart from the Eocene Arctic Ocean. *Organic Geochemistry*, **2009**, 40, 628-637	3.1	32
387	Extended hydroxyarchaeol, a novel lipid biomarker for anaerobic methanotrophy in cold seepage habitats. *Organic Geochemistry*, **2008**, 39, 1007-1014	3.1	32
386	Reconstruction of □C of chemocline CO (aq) in past oceans and lakes using the □C of fossil isorenieratene. *Earth and Planetary Science Letters*, **2005**, 235, 421-434	5.3	32
385	Structural and isotopic analysis of kerogens in sediments rich in free sulfurised Botryococcus braunii biomarkers. *Organic Geochemistry*, **2003**, 34, 471-482	3.1	32
384	Temperature and leaf wax □2H records demonstrate seasonal and regional controls on Asian monsoon proxies. *Geology*, **2014**, 42, 1075-1078	5	31
383	Transport of branched tetraether lipids from the Tagus River basin to the coastal ocean of the Portuguese margin: consequences for the interpretation of the MBT'/CBT paleothermometer. *Biogeosciences*, **2014**, 11, 5637-5655	4.6	31
382	Seasonality and depth distribution of the abundance and activity of ammonia oxidizing microorganisms in marine coastal sediments (North Sea). *Frontiers in Microbiology*, **2014**, 5, 472	5.7	31
381	Spatial distribution of intact polar lipids in North Sea surface waters: Relationship with environmental conditions and microbial community composition. *Limnology and Oceanography*, **2012**, 57, 959-973	4.8	31
380	Molecular analysis of intact preen waxes of Calidris canutus (Aves: Scolopacidae) by gas chromatography/mass spectrometry. *Lipids*, **2000**, 35, 533-41	1.6	31

379	Interannual and (multi-)decadal variability in the sedimentary BIT index of Lake Challa, East Africa, over the past 2200 years: assessment of the precipitation proxy. *Climate of the Past*, **2016**, 12, 1243-1262	3.9	31
378	Ocean temperature impact on ice shelf extent in the eastern Antarctic Peninsula. *Nature Communications*, **2019**, 10, 304	17.4	30
377	Potential biological sources of long chain alkyl diols in a lacustrine system. *Organic Geochemistry*, **2014**, 68, 27-30	3.1	30
376	Coherent millennial-scale patterns in U37k? and TEX86H temperature records during the penultimate interglacial-to-glacial cycle in the western Mediterranean. *Paleoceanography*, **2011**, 26, n/a-n/a		30
375	Molecular fossil evidence for anaerobic ammonium oxidation in the Arabian Sea over the last glacial cycle. *Paleoceanography*, **2009**, 24, n/a-n/a		30
374	Is there evidence for a substantial contribution of prokaryotic biomass to organic carbon in Phanerozoic carbonaceous sediments?. *Organic Geochemistry*, **1997**, 26, 517-530	3.1	30
373	Effect of artificial maturation on carbazole distributions, as revealed by the hydrous pyrolysis of an organic-sulphur-rich source rock (Ghareb Formation, Jordan). *Organic Geochemistry*, **1998**, 29, 1953-1960	3.1	30
372	Release of sulfur- and oxygen-bound components from a sulfur-rich kerogen during simulated maturation by hydrous pyrolysis. *Organic Geochemistry*, **1998**, 29, 1875-1890	3.1	30
371	Microbial community structure in three deep-sea carbonate crusts. *Microbial Ecology*, **2006**, 52, 451-62	4.4	30
370	Sedimentary evidence for a diaromatic carotenoid with an unprecedented aromatic substitution pattern. *Journal of the Chemical Society Chemical Communications*, **1993**, 1715-1716		30
369	Methane oxidation in anoxic lake water stimulated by nitrate and sulfate addition. *Environmental Microbiology*, **2020**, 22, 766-782	5.2	30
368	Hydrolytic Capabilities as a Key to Environmental Success: Chitinolytic and Cellulolytic From Acidic Sub-arctic Soils and Boreal Peatlands. *Frontiers in Microbiology*, **2018**, 9, 2775	5.7	30
367	Roots induce stronger soil water repellency than leaf waxes. *Geoderma*, **2014**, 232-234, 328-340	6.7	29
366	Biomarker evidence for anammox in the oxygen minimum zone of the Eastern Tropical North Pacific. *Organic Geochemistry*, **2012**, 53, 80-87	3.1	29
365	Lipids of symbiotic methane-oxidizing bacteria in peat moss studied using stable carbon isotopic labelling. *Organic Geochemistry*, **2010**, 41, 1040-1044	3.1	29
364	A biomarker and □15N study of thermally altered Silurian cyanobacterial mats. *Organic Geochemistry*, **2009**, 40, 149-157	3.1	29
363	13C-contents of sedimentary bacterial lipids in a shallow sulfidic monomictic lake (Lake Cisˆ □Spain). *Organic Geochemistry*, **2000**, 31, 777-786	3.1	29
362	The occurrence and distribution of low-molecular-weight sulphoxides in polar fractions of sediment extracts and petroleum. *Organic Geochemistry*, **1995**, 23, 129-138	3.1	29

361	Molecular indicators for palaeoenvironmental change in a Messinian evaporitic sequence (Vena del Gesso, Italy): III. Stratigraphic changes in the molecular structure of kerogen in a single marl bed as revealed by flash pyrolysis. *Organic Geochemistry*, **1995**, 23, 555-566	3.1	29
360	A molecular stratigraphic approach to palaeoenvironmental assessment and the recognition of changes in source inputs in marls of the Mulhouse Basin (Alsace, France). *Organic Geochemistry*, **1993**, 20, 1165-1186	3.1	29
359	gen. nov., sp. nov., a hydrolytic planctomycete from northern wetlands, and proposal of fam. nov. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 837-844	2.2	29
358	New Insights Into the Polar Lipid Composition of Extremely Halo(alkali)philic Euryarchaea From Hypersaline Lakes. *Frontiers in Microbiology*, **2019**, 10, 377	5.7	28
357	Alkenone distribution impacts the hydrogen isotopic composition of the C37:2 and C37:3 alkan-2-ones in Emiliania huxleyi. *Geochimica Et Cosmochimica Acta*, **2013**, 111, 162-166	5.5	28
356	A 30 Ma history of the Amazon River inferred from terrigenous sediments and organic matter on the Cearˆ Rise. *Earth and Planetary Science Letters*, **2017**, 474, 40-48	5.3	28
355	Salinity changes in the Agulhas leakage area recorded by stable hydrogen isotopes of C₃₇ alkenones during Termination I and II. *Climate of the Past*, **2014**, 10, 251-260	3.9	28
354	Provenance of tetraether membrane lipids in a large temperate lake (Loch Lomond, UK): implications for glycerol dialkyl glycerol tetraether (GDGT)-based palaeothermometry. *Biogeosciences*, **2014**, 11, 5539-5563	4.6	28
353	Organic matter provenance, palaeoproductivity and bottom water anoxia during the Cenomanian/Turonian oceanic anoxic event in the Newfoundland Basin (northern proto North Atlantic Ocean). *Organic Geochemistry*, **2012**, 50, 11-18	3.1	28
352	Nitrification and growth of autotrophic nitrifying bacteria and Thaumarchaeota in the coastal North Sea. *Biogeosciences*, **2013**, 10, 1775-1785	4.6	28
351	Biophysical properties of membrane lipids of anammox bacteria: I. Ladderane phospholipids form highly organized fluid membranes. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 1444-51	3.8	28
350	Large changes in seasonal sea ice distribution and productivity in the Sea of Okhotsk during the deglaciations. *Geochemistry, Geophysics, Geosystems*, **2009**, 10, n/a-n/a	3.6	28
349	Changes in the molecular structure of a Type II-S kerogen (Monterey Formation, U.S.A.) during sequential chemical degradation. *Organic Geochemistry*, **1998**, 29, 1403-1417	3.1	28
348	Molecular and bulk isotopic analyses of organic matter in marls of the Mulhouse Basin (Tertiary, Alsace, France). *Organic Geochemistry*, **1993**, 20, 1253-63	3.1	28
347	Analysis of Maturity-Related Changes in the Organic Sulfur Composition of Kerogens by Flash Pyrolysis Gas Chromatography. *ACS Symposium Series*, **1990**, 529-565	0.4	28
346	The enigmatic structure of the crenarchaeol isomer. *Organic Geochemistry*, **2018**, 124, 22-28	3.1	27
345	Critical assessment of glyco- and phospholipid separation by using silica chromatography. *Applied and Environmental Microbiology*, **2014**, 80, 360-5	4.8	27
344	PHYLOGENETIC POSITION OF ATTHEYA LONGICORNIS AND ATTHEYA SEPTENTRIONALIS (BACILLARIOPHYTA)(1). *Journal of Phycology*, **2009**, 45, 444-53	3	27

343	Structural biomacromolecules in plants **2004**, 133-154		27
342	Spatial extent and degree of oxygen depletion in the deep proto-North Atlantic basin during Oceanic Anoxic Event 2. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 4254-4266	3.6	26
341	Freshwater discharge controlled deposition of Cenomanian□Turonian black shales on the NW European epicontinental shelf (Wunstorf, northern Germany). *Climate of the Past*, **2015**, 11, 495-508	3.9	26
340	Impact of metabolism and growth phase on the hydrogen isotopic composition of microbial fatty acids. *Frontiers in Microbiology*, **2015**, 6, 408	5.7	26
339	Sources and distributions of branched tetraether lipids and crenarchaeol along the Portuguese continental margin: Implications for the BIT index. *Continental Shelf Research*, **2015**, 96, 34-44	2.4	26
338	Different seasonality of pelagic and benthic Thaumarchaeota in the North Sea. *Biogeosciences*, **2013**, 10, 7195-7206	4.6	26
337	Mid- to late-Holocene coastal environmental changes in southwest Florida, USA. *Holocene*, **2012**, 22, 929-938	2.6	26
336	Laboratory sulfurisation of the marine microalga Nannochloropsis salina. *Organic Geochemistry*, **1998**, 29, 1837-1848	3.1	26
335	Cyclicity in the middle Eocene central Arctic Ocean sediment record: Orbital forcing and environmental response. *Paleoceanography*, **2008**, 23, n/a-n/a		26
334	Organic matter of the Mulhouse Basin, France: a synthesis. *Organic Geochemistry*, **1993**, 20, 1105-1123	3.1	26
333	Large effect of irradiance on hydrogen isotope fractionation of alkenones in Emiliania huxleyi. *Geochimica Et Cosmochimica Acta*, **2015**, 160, 16-24	5.5	25
332	The C₃₂ alkane-1,15-diol as a proxy of late Quaternary riverine input in coastal margins. *Climate of the Past*, **2017**, 13, 1049-1061	3.9	25
331	Seasonal and vertical distribution of putative ammonia-oxidizing thaumarchaeotal communities in an oligotrophic lake. *FEMS Microbiology Ecology*, **2013**, 83, 515-26	4.3	25
330	Diazotrophic microbial community of coastal microbial mats of the southern North Sea. *Geobiology*, **2011**, 9, 349-59	4.3	25
329	Rare branched fatty acids characterize the lipid composition of the intra-aerobic methane oxidizer "Candidatus Methylomirabilis oxyfera". *Applied and Environmental Microbiology*, **2012**, 78, 8650-6	4.8	25
328	Biomarker generation from Type II-S kerogens in claystone and limestone during hydrous and anhydrous pyrolysis. *Organic Geochemistry*, **1998**, 29, 1395-1402	3.1	25
327	Structural identification of the diester preen-gland waxes of the red knot (Calidris canutus). *Journal of Natural Products*, **2000**, 63, 381-4	4.9	25
326	Alkylthiophenes as Sensitive Indicators of Palaeoenvironmental Changes. *ACS Symposium Series*, **1990**, 444-485	0.4	25

325	Recurrent phases of drought in the upper Miocene of the Black Sea region. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2015**, 423, 18-31	2.9	24
324	Lack of ¹³C-label incorporation suggests low turnover rates of thaumarchaeal intact polar tetraether lipids in sediments from the Iceland shelf. *Biogeosciences*, **2014**, 11, 201-216	4.6	24
323	A TEX86 lake record suggests simultaneous shifts in temperature in Central Europe and Greenland during the last deglaciation. *Geophysical Research Letters*, **2013**, 40, 948-953	4.9	24
322	Palaeo methane-seepage history traced by biomarker patterns in a carbonate crust, Nile deep-sea fan (Eastern Mediterranean Sea). *Marine Geology*, **2009**, 261, 105-113	3.3	24
321	A Newly Discovered Norisoprenoid, 2,6,15,19-Tetramethylicosane, in Cretaceous Black Shales. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 965-970	5.5	24
320	Climate–ocean coupling off North-West Africa during the Lower Albian: The Oceanic Anoxic Event 1b. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2008**, 262, 157-165	2.9	24
319	Comment on "Lipids of marine Archaea: Patterns and provenance in the water column and sediments" by Turich et al. (2007). *Geochimica Et Cosmochimica Acta*, **2008**, 72, 5342-5346	5.5	24
318	A mixed ladderane/n-alkyl glycerol diether membrane lipid in an anaerobic ammonium-oxidizing bacterium. *Chemical Communications*, **2004**, 2590-1	5.8	24
317	Occurrence of two novel benzothiophene hopanoid families in sediments. *Organic Geochemistry*, **1995**, 23, 607-616	3.1	24
316	Planctomicrobium piriforme gen. nov., sp. nov., a stalked planctomycete from a littoral wetland of a boreal lake. *International Journal of Systematic and Evolutionary Microbiology*, **2015**, 65, 1659-1665	2.2	24
315	Warming and environmental changes in the eastern North Sea Basin during the Palaeocene–Eocene Thermal Maximum as revealed by biomarker lipids. *Organic Geochemistry*, **2015**, 78, 79-88	3.1	23
314	Rare bacteriohopanepolyols as markers for an autotrophic, intra-aerobic methanotroph. *Geochimica Et Cosmochimica Acta*, **2014**, 136, 114-125	5.5	23
313	Endosymbiotic heterocystous cyanobacteria synthesize different heterocyst glycolipids than free-living heterocystous cyanobacteria. *Phytochemistry*, **2013**, 85, 115-21	4	23
312	A comparative genomics study of genetic products potentially encoding ladderane lipid biosynthesis. *Biology Direct*, **2009**, 4, 8	7.2	23
311	Late Holocene sea-level rise in Tampa Bay: Integrated reconstruction using biomarkers, pollen, organic-walled dinoflagellate cysts, and diatoms. *Estuarine, Coastal and Shelf Science*, **2010**, 86, 216-224	2.9	23
310	First evidence for the Cenomanian–Turonian oceanic anoxic event (OAE2, "Bonarelli" event) from the Ionian Zone, western continental Greece. *International Journal of Earth Sciences*, **2007**, 96, 343-352	2.2	23
309	Contribution of river-borne soil organic carbon to the Gulf of Lions (NW Mediterranean) **2010**, 55, 507		23
308	Life on the edge: active microbial communities in the Kryos MgCl-brine basin at very low water activity. *ISME Journal*, **2018**, 12, 1414-1426	11.9	22

307	Ercella succinigenes gen. nov., sp. nov., an anaerobic succinate-producing bacterium. *International Journal of Systematic and Evolutionary Microbiology*, **2014**, 64, 2449-2454	2.2	22
306	Characterization of the last deglacial transition in tropical East Africa: Insights from Lake Albert. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 409, 1-8	2.9	22
305	Impact of salinity and growth phase on alkenone distributions in coastal haptophytes. *Organic Geochemistry*, **2014**, 67, 31-34	3.1	22
304	Thermodesulfobacterium geofontis sp. nov., a hyperthermophilic, sulfate-reducing bacterium isolated from Obsidian Pool, Yellowstone National Park. *Extremophiles*, **2013**, 17, 251-63	3	22
303	Comparison of intact polar lipid with microbial community composition of vent deposits of the Rainbow and Lucky Strike hydrothermal fields. *Geobiology*, **2013**, 11, 72-85	4.3	22
302	A four-year record of UK?37- and TEX86-derived sea surface temperature estimates from sinking particles in the filamentous upwelling region off Cape Blanc, Mauritania. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2015**, 97, 67-79	2.5	22
301	Low temporal variation in the intact polar lipid composition of North Sea coastal marine water reveals limited chemotaxonomic value. *Biogeosciences*, **2012**, 9, 1073-1084	4.6	22
300	Impact of temperature on long chain diol and mid-chain hydroxy methyl alkanoate composition in Proboscia diatoms: Results from culture and field studies. *Organic Geochemistry*, **2009**, 40, 1124-1131	3.1	22
299	Thermal stability of ladderane lipids as determined by hydrous pyrolysis. *Organic Geochemistry*, **2008**, 39, 1735-1741	3.1	22
298	Identification of organic matter sources in sulfidic late Holocene Antarctic fjord sediments from fossil rDNA sequence analysis. *Paleoceanography*, **2007**, 22,		22
297	Expression of annual cycles in preen wax composition in red knots: constraints on the changing phenotype. *Journal of Experimental Zoology*, **2007**, 307, 127-39		22
296	Forcing of tropical Atlantic sea surface temperatures during the mid-Pleistocene transition. *Paleoceanography*, **2004**, 19, n/a-n/a		22
295	Origin of prist-1-ene and prist-2-ene in kerogen pyrolysates. *Chemical Geology*, **2001**, 172, 201-212	4.2	22
294	Comments on Biomarkers or not biomarkers. A new hypothesis for the origin of pristane involving derivation from methyltrimethyltridecylchromans (MTTCs) formed during diagenesis from chlorophyll and alkylphenols from M. Li, S. R. Larter, P. Taylor, D. M. Jones, B. Bowler and M. [illegible]	3.1	22
293	Methylovulum psychrotolerans sp. nov., a cold-adapted methanotroph from low-temperature terrestrial environments, and emended description of the genus Methylovulum. *International Journal of Systematic and Evolutionary Microbiology*, **2016**, 66, 2417-2423	2.2	22
292	Abundance and Diversity of Denitrifying and Anammox Bacteria in Seasonally Hypoxic and Sulfidic Sediments of the Saline Lake Grevelingen. *Frontiers in Microbiology*, **2016**, 7, 1661	5.7	22
291	Elucidation and identification of amino acid containing membrane lipids using liquid chromatography/high-resolution mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2016**, 30, 739-50	2.2	22
290	Comparison of the effect of salinity on the D/H ratio of fatty acids of heterotrophic and photoautotrophic microorganisms. *FEMS Microbiology Letters*, **2015**, 362,	2.9	21

289	Biomarkers in upper Holocene Eastern North Sea and Wadden Sea sediments. *Organic Geochemistry* , **2000**, 31, 1533-1543	3.1	21
288	Amazon forest dynamics under changing abiotic conditions in the early Miocene (Colombian Amazonia). *Journal of Biogeography*, **2016**, 43, 2424-2437	4.1	21
287	Metabolism and Occurrence of Methanogenic and Sulfate-Reducing Syntrophic Acetate Oxidizing Communities in Haloalkaline Environments. *Frontiers in Microbiology*, **2018**, 9, 3039	5.7	21
286	The influence of oxygen exposure time on the composition of macromolecular organic matter as revealed by surface sediments on the Murray Ridge (Arabian Sea). *Geochimica Et Cosmochimica Acta* , **2017**, 206, 40-56	5.5	20
285	Fatty Acid and Hopanoid Adaption to Cold in the Methanotroph. *Frontiers in Microbiology*, **2019**, 10, 589	5.7	20
284	Bisnorgammacerane´traces predatory´pressure´and the persistent rise of algal ecosystems after Snowball Earth. *Nature Communications*, **2019**, 10, 476	17.4	20
283	Novel intact glycolipids in sediments from an Antarctic lake (Ace Lake). *Organic Geochemistry*, **2001**, 32, 321-332	3.1	20
282	Stable carbon isotope fractionations of the hyperthermophilic crenarchaeon Metallosphaera sedula. *FEMS Microbiology Letters*, **2001**, 196, 67-70	2.9	20
281	All-cis hentriaconta-9,15,22-triene in microbial mats formed by the phototrophic prokaryote Chloroflexus. *Organic Geochemistry*, **1999**, 30, 1585-7	3.1	20
280	Low-temperature addition of hydrogen polysulfides to olefins: formation of 2,2?-dialkyl polysulfides from alk-1-enes and cyclic (poly)sulfides and polymeric organic sulfur compounds from ⊞dienes. *Journal of the Chemical Society Perkin Transactions 1*, **1995**, 635-640		20
279	Cyclisation and aromatisation of carotenoids during sediment diagenesis. *Journal of the Chemical Society Chemical Communications*, **1995**, 187		20
278	Molecular palaeontological evidence for food-web relationships. *Die Naturwissenschaften*, **1994**, 81, 128-30		20
277	A diverse uncultivated microbial community is responsible for organic matter degradation in the Black Sea sulphidic zone. *Environmental Microbiology*, **2021**, 23, 2709-2728	5.2	20
276	The bacterial sulfur cycle in expanding dysoxic and euxinic marine waters. *Environmental Microbiology*, **2021**, 23, 2834-2857	5.2	20
275	Phenotypic and Genomic Properties of Chitinispirillum alkaliphilum gen. nov., sp. nov., A Haloalkaliphilic Anaerobic Chitinolytic Bacterium Representing a Novel Class in the Phylum Fibrobacteres. *Frontiers in Microbiology*, **2016**, 7, 407	5.7	20
274	Acidobacteria **2018**, 1-10		20
273	Depth-related differences in archaeal populations impact the isoprenoid tetraether lipid composition of the Mediterranean Sea water column. *Organic Geochemistry*, **2019**, 135, 16-31	3.1	19
272	Impact of riverine suspended particulate matter on the branched glycerol dialkyl glycerol tetraether composition of lakes: The outflow of the Selenga River in Lake Baikal (Russia). *Organic Geochemistry*, **2015**, 83-84, 241-252	3.1	19

271	Natronobiforma cellulositropha gen. nov., sp. nov., a novel haloalkaliphilic member of the family Natrialbaceae (class Halobacteria) from hypersaline alkaline lakes. *Systematic and Applied Microbiology*, **2018**, 41, 355-362	4.2	19
270	Elevation-dependent changes in n -alkane □D and soil GDGTs across the South Central Andes. *Earth and Planetary Science Letters*, **2016**, 453, 234-242	5.3	19
269	Variation in methanotroph-related proxies in peat deposits from Misten Bog, Hautes-Fagnes, Belgium. *Organic Geochemistry*, **2012**, 53, 73-79	3.1	19
268	A novel method for the rapid analysis of levoglucosan in soils and sediments. *Organic Geochemistry*, **2013**, 58, 86-88	3.1	19
267	Isolation and characterization of a new CO-utilizing strain, Thermoanaerobacter thermohydrosulfuricus subsp. carboxydovorans, isolated from a geothermal spring in Turkey. *Extremophiles*, **2009**, 13, 885-94	3	19
266	Identification of carotenals in sediments. *Organic Geochemistry*, **2005**, 36, 485-495	3.1	19
265	Organic carbon as a palaeoenvironmental indicator in the marine realm. *Geological Society Special Publication*, **1995**, 83, 43-71	1.7	19
264	Hydrocarbon biomarkers of different lithofacies of the Salt IV formation of the Mulhouse Basin, France. *Organic Geochemistry*, **1993**, 20, 1187-1200	3.1	19
263	Identification of a novel C25 highly branched isoprenoid thiophene in sediments. *Organic Geochemistry*, **1993**, 20, 327-331	3.1	19
262	Bridging the membrane lipid divide: bacteria of the FCB group superphylum have the potential to synthesize archaeal ether lipids. *ISME Journal*, **2021**, 15, 168-182	11.9	19
261	Testing the alkenone D/H ratio as a paleo indicator of sea surface salinity in a coastal ocean margin (Mozambique Channel). *Organic Geochemistry*, **2015**, 78, 62-68	3.1	18
260	The absence of intact polar lipid-derived GDGTs in marine waters dominated by Marine Group II: Implications for lipid biosynthesis in Archaea. *Scientific Reports*, **2020**, 10, 294	4.9	18
259	Potential recycling of thaumarchaeotal lipids by DPANN Archaea in seasonally hypoxic surface marine sediments. *Organic Geochemistry*, **2018**, 119, 101-109	3.1	18
258	The impact of oxic degradation on long chain alkyl diol distributions in Arabian Sea surface sediments. *Organic Geochemistry*, **2016**, 100, 1-9	3.1	18
257	Lipid biomarkers for anaerobic oxidation of methane and sulphate reduction in cold seep sediments of Nyegga pockmarks (Norwegian margin): discrepancies in contents and carbon isotope signatures. *Geo-Marine Letters*, **2014**, 34, 269-280	1.9	18
256	Eocene temperature gradients. *Nature Geoscience*, **2017**, 10, 538-539	18.3	18
255	Pheno- and Genotyping of Hopanoid Production in. *Frontiers in Microbiology*, **2017**, 8, 968	5.7	18
254	A novel marine nitrite-oxidizing Nitrospira species from Dutch coastal North Sea water. *Frontiers in Microbiology*, **2013**, 4, 60	5.7	18

253	Biophysical properties of membrane lipids of anammox bacteria: II. Impact of temperature and bacteriohopanoids. *Biochimica Et Biophysica Acta - Biomembranes*, **2009**, 1788, 1452-7	3.8	18
252	Transport and depositional process of soil organic matter during wet and dry storms on the Tˆ ℓ inner shelf (NW Mediterranean). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2009**, 273, 228-238	2.9	18
251	A high resolution biomarker study of different lithofacies of organic sulfur-rich carbonate rocks of a Kimmeridgian lagoon (French southern Jura). *Organic Geochemistry*, **1998**, 28, 151-177	3.1	18
250	Euxinia and primary production in Late Cretaceous eastern equatorial Atlantic surface waters fostered orbitally driven formation of marine black shales. *Paleoceanography*, **2004**, 19, n/a-n/a		18
249	Novel polyunsaturated n-alkenes in the marine diatom Rhizosolenia setigera. *FEBS Journal*, **2000**, 267, 5727-32		18
248	Identification of novel sulfur-containing steroids in sediments and petroleum: probable incorporation of sulfur into □5,7-sterols during early diagenesis. *Geochimica Et Cosmochimica Acta*, **1999**, 63, 31-38	5.5	18
247	A novel triterpenoid carbon skeleton in immature sulphur-rich sediments. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 953-958	5.5	18
246	The effect of hydrosulphurization on stable carbon isotopic compositions of free and sulphur-bound lipids. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 1605-1609	5.5	18
245	Sedimentary alkenone distributions reflect salinity changes in the Baltic Sea over the Holocene. *Organic Geochemistry*, **2016**, 102, 30-44	3.1	18
244	A quest for the biological sources of long chain alkyl diols in the western tropical North Atlantic Ocean. *Biogeosciences*, **2018**, 15, 5951-5968	4.6	18
243	Impact of Seasonal Hypoxia on Activity and Community Structure of Chemolithoautotrophic Bacteria in a Coastal Sediment. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	17
242	Fossilization and degradation of archaeal intact polar tetraether lipids in deeply buried marine sediments (Peru Margin). *Geobiology*, **2014**, 12, 212-20	4.3	17
241	Distributions and carbon isotopic compositions of lipid biomarkers in authigenic carbonate crusts from the Nordic margin (Norwegian Sea). *Organic Geochemistry*, **2010**, 41, 885-890	3.1	17
240	Occurrence of gorgosterol in diatoms of the genus Delphineis. *Organic Geochemistry*, **2009**, 40, 144-147	3.1	17
239	Sulfurization of Carbohydrates Results in a Sulfur-Rich, Unresolved Complex Mixture in Kerogen Pyrolysates. *Energy & Fuels*, **2003**, 17, 1109-1118	4.1	17
238	Molecular mechanics calculation of the rotational barriers of 2,2?,6-trialkylbiphenyls to explain their GC-elution behaviour. *Organic Geochemistry*, **1996**, 24, 587-591	3.1	17
237	The combined application of organic sulphur and isotope geochemistry to assess multiple sources of palaeobiochemicals with identical carbon skeletons. *Organic Geochemistry*, **1992**, 19, 403-19	3.1	17
236	Pristane/phytane ratio as environmental indicator. *Nature*, **1988**, 333, 604-604	50.4	17

235	Tundrisphaera lichenicola gen. nov., sp. nov., a psychrotolerant representative of the family Isosphaeraceae from lichen-dominated tundra soils. *International Journal of Systematic and Evolutionary Microbiology*, **2017**, 67, 3583-3589	2.2	17
234	SULFUR AND METHANE CYCLING DURING THE HOLOCENE IN ACE LAKE (ANTARCTICA) REVEALED BY LIPID AND DNA STRATIGRAPHY **2006**, 41-65		17
233	Widespread Warming Before and Elevated Barium Burial During the Paleocene-Eocene Thermal Maximum: Evidence for Methane Hydrate Release?. *Paleoceanography and Paleoclimatology*, **2019**, 34, 546-566	3.3	16
232	Effects of alkalinity and salinity at low and high light intensity on hydrogen isotope fractionation of long-chain alkenones produced by <i>Emiliania huxleyi</i>. *Biogeosciences*, **2017**, 14, 5693-5704	4.6	16
231	High-resolution bio- and chemostratigraphy of an expanded record of Oceanic Anoxic Event 2 (Late Cenomanian–Early Turonian) at Clot Chevalier, near Barrˆ me, SE France (Vocontian Basin). *Newsletters on Stratigraphy*, **2019**, 52, 97-129	2.9	16
230	Impact of sedimentary degradation and deep water column production on GDGT abundance and distribution in surface sediments in the Arabian Sea: Implications for the TEX86 paleothermometer. *Geochimica Et Cosmochimica Acta*, **2014**, 142, 386-399	5.5	16
229	Evidences for a Paleocene marine incursion in southern Amazonia (Madre de Dios Sub-Andean Zone, Peru). *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 414, 451-471	2.9	16
228	Distribution of anaerobic ammonia-oxidizing bacteria in a subterranean estuary. *Marine Chemistry*, **2012**, 136-137, 7-13	3.7	16
227	Occurrence and distribution of ladderane oxidation products in different oceanic regimes. *Biogeosciences*, **2012**, 9, 2407-2418	4.6	16
226	Recognition of Early Eocene global carbon isotope excursions using lipids of marine Thaumarchaeota. *Earth and Planetary Science Letters*, **2013**, 373, 160-168	5.3	16
225	Stable carbon isotope patterns of marine biomarker lipids in the Arctic Ocean during Eocene Thermal Maximum 2. *Paleoceanography*, **2011**, 26, n/a-n/a		16
224	Diatoms as a source for 4-desmethyl-23,24-dimethyl steroids in sediments and petroleum. *Geochimica Et Cosmochimica Acta*, **2009**, 73, 377-387	5.5	16
223	Novel C26 highly branched isoprenoid thiophenes and alkane from the Menilite Formation, Outer Carpathians, SE Poland. *Organic Geochemistry*, **1997**, 26, 295-304	3.1	16
222	Free and sulphurized hopanoids and highly branched isoprenoids in immature lacustrine oil shales. *Organic Geochemistry*, **1997**, 27, 41-63	3.1	16
221	Recognition of n-alkyl and isoprenoid algaenans in marine sediments by stable carbon isotopic analysis of pyrolysis products of kerogens. *Organic Geochemistry*, **1998**, 28, 179-194	3.1	16
220	Quantitative assessment of mono- and polysulphide-linked carbon skeletons in sulphur-rich macromolecular aggregates present in bitumens and oils. *Organic Geochemistry*, **1995**, 23, 765-775	3.1	16
219	A novel sterane, 27-nor-24-methyl-5□cholestane, in sediments. *Geochimica Et Cosmochimica Acta*, **1994**, 58, 3741-3745	5.5	16
218	Constraining the applicability of organic paleotemperature proxies for the last 90 Myrs. *Organic Geochemistry*, **2019**, 128, 122-136	3.1	16

217	A Comparison of Late Quaternary Organic Proxy-Based Paleotemperature Records of the Central Sea of Okhotsk. *Paleoceanography and Paleoclimatology*, **2018**, 33, 732-744	3.3	16
216	Genetic biomarkers of the sterol-biosynthetic pathway in microalgae. *Environmental Microbiology Reports*, **2014**, 6, 35-44	3.7	15
215	Comparison of the stable carbon and nitrogen isotopic values of gill and white muscle tissue of fish. *Journal of Experimental Marine Biology and Ecology*, **2014**, 457, 173-179	2.1	15
214	Asymmetric synthesis of cyclo-archaeol and □-glucosyl cyclo-archaeol. *Organic and Biomolecular Chemistry*, **2013**, 11, 2482-92	3.9	15
213	Parental role division predicts avian preen wax cycles. *Ibis*, **2007**, 149, 721-729	1.9	15
212	Biological Markers for Anoxia in the Photic Zone of the Water Column127-163		15
211	Mass spectra of sn-2-hydroxyarchaeol, a polar lipid biomarker for anaerobic methanotrophy. *Geochemistry, Geophysics, Geosystems*, **2000**, 1,	3.6	15
210	A novel C35 highly branched isoprenoid polyene in Recent Indian Ocean sediments. *Organic Geochemistry*, **1995**, 23, 263-267	3.1	15
209	Seasonal variability and sources of in situ brGDGT production in a permanently stratified African crater lake. *Biogeosciences*, **2020**, 17, 5443-5463	4.6	15
208	Examining the provenance of branched GDGTs in the Tagus River drainage basin and its outflow into the Atlantic Ocean over the Holocene to determine their usefulness for paleoclimate applications. *Biogeosciences*, **2016**, 13, 5719-5738	4.6	15
207	Factors Controlling the Stable Nitrogen Isotopic Composition (□15N) of Lipids in Marine Animals. *PLoS ONE*, **2016**, 11, e0146321	3.7	15
206	Dark carbon fixation in the Arabian Sea oxygen minimum zone contributes to sedimentary organic carbon (SOM). *Global Biogeochemical Cycles*, **2019**, 33, 1715-1732	5.9	15
205	A Late Quaternary climate record based on long-chain diol proxies from the Chilean margin. *Climate of the Past*, **2018**, 14, 1783-1803	3.9	15
204	Archaeal Sources of Intact Membrane Lipid Biomarkers in the Oxygen Deficient Zone of the Eastern Tropical South Pacific. *Frontiers in Microbiology*, **2019**, 10, 765	5.7	14
203	Transport and deposition of the fire biomarker levoglucosan across the tropical North Atlantic Ocean. *Geochimica Et Cosmochimica Acta*, **2018**, 227, 171-185	5.5	14
202	Aeolian transport and deposition of plant wax n-alkanes across the tropical North Atlantic Ocean. *Organic Geochemistry*, **2018**, 115, 113-123	3.1	14
201	Branched glycerol dialkyl glycerol tetraethers and crenarchaeol record post-glacial sea level rise and shift in source of terrigenous brGDGTs in the Kara Sea (Arctic Ocean). *Organic Geochemistry*, **2016**, 92, 42-54	3.1	14
200	A mineralogical and organic geochemical overview of the effects of Holocene changes in Amazon River flow on three floodplain lakes. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 415, 152-164	2.8	14

199	Long chain glycolipids with pentose head groups as biomarkers for marine endosymbiotic heterocystous cyanobacteria. *Organic Geochemistry*, **2015**, 81, 1-7	3.1	14
198	Reconstruction of vertical temperature gradients in past oceans Proxy data from the Hauterivian arly Barremian (Early Cretaceous) of the Boreal Realm. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2012**, 363-364, 135-143	2.9	14
197	Exploring preserved fossil dinoflagellate and haptophyte DNA signatures to infer ecological and environmental changes during deposition of sapropel S1 in the eastern Mediterranean. *Paleoceanography*, **2011**, 26, n/a-n/a		14
196	Contribution of river-borne soil organic carbon to the Gulf of Lions (NW Mediterranean). *Limnology and Oceanography*, **2010**, 55, 507-518	4.8	14
195	Carbon isotope-labelling experiments indicate that ladderane lipids of anammox bacteria are synthesized by a previously undescribed, novel pathway. *FEMS Microbiology Letters*, **2009**, 292, 115-22	2.9	14
194	Occurrence and biomarker potential of 23-methyl steroids in diatoms and sediments. *Organic Geochemistry*, **2009**, 40, 219-228	3.1	14
193	A polyunsaturated irregular acyclic C25 isoprenoid in a methanogenic archaeon. *Tetrahedron Letters*, **1997**, 38, 6881-6884	2	14
192	Evidence for substantial intramolecular heterogeneity in the stable carbon isotopic composition of phytol in photoautotrophic organisms. *Organic Geochemistry*, **2008**, 39, 135-146	3.1	14
191	Transport of terrestrial organic matter to the deep North Atlantic Ocean by ice rafting. *Organic Geochemistry*, **2007**, 38, 1161-1168	3.1	14
190	Variations in origin and composition of kerogen constituents as revealed by analytical pyrolysis of immature kerogens before and after desulphurization. *Organic Geochemistry*, **1996**, 24, 705-714	3.1	14
189	gen. nov., sp. nov., a novel freshwater planctomycete with a giant genome from the family. *International Journal of Systematic and Evolutionary Microbiology*, **2020**, 70, 1240-1249	2.2	14
188	Impact of trophic state on the distribution of intact polar lipids in surface waters of lakes. *Limnology and Oceanography*, **2016**, 61, 1065-1077	4.8	14
187	Isoprenoid and branched GDGT-based proxies for surface sediments from marine, fjord and lake environments in Chile. *Organic Geochemistry*, **2015**, 89-90, 117-127	3.1	13
186	Membrane Lipid Composition of the Moderately Thermophilic Ammonia-Oxidizing Archaeon " Nitrosotenuis uzonensis" at Different Growth Temperatures. *Applied and Environmental Microbiology*, **2019**, 85,	4.8	13
185	Biomarker evidence for the occurrence of anaerobic ammonium oxidation in the eastern Mediterranean Sea during Quaternary and Pliocene sapropel formation. *Biogeosciences*, **2019**, 16, 2467-2479	4.6	13
184	Origin and palaeoenvironmental significance of C25 and C27 n-alk-1-enes in a 25,000-year lake-sedimentary record from equatorial East Africa. *Geochimica Et Cosmochimica Acta*, **2014**, 145, 89-102	5.5	13
183	Distribution of long chain heterocyst glycolipids in cultures of the thermophilic cyanobacterium Mastigocladus laminosus and a hot spring microbial mat. *Organic Geochemistry*, **2013**, 56, 19-24	3.1	13
182	Intact polar lipids of Thaumarchaeota and anammox bacteria as indicators of N cycling in the eastern tropical North Pacific oxygen-deficient zone. *Biogeosciences*, **2015**, 12, 4725-4737	4.6	13

181	Lysine and novel hydroxylysine lipids in soil bacteria: amino acid membrane lipid response to temperature and pH in Pseudopedobacter saltans. *Frontiers in Microbiology*, **2015**, 6, 637	5.7	13
180	ConiacianSantonian deep ocean anoxia/euxinia inferred from molecular and inorganic markers: Results from the Demerara Rise (ODP Leg 207). *Organic Geochemistry*, **2008**, 39, 1092-1096	3.1	13
179	Application of lipid biomarkers to detect sources of organic matter in mud volcano deposits and post-eruptional methanotrophic processes in the Gulf of Cadiz, NE Atlantic. *Marine Geology*, **2008**, 255, 1-14	3.3	13
178	Chemical fingerprinting of algaenans using RuO4 degradation. *Organic Geochemistry*, **2006**, 37, 871-881	3.1	13
177	Characterization of high-molecular-weight organic matter in marls of the Salt IV formation of the Mulhouse Basin. *Organic Geochemistry*, **1993**, 20, 1237-1251	3.1	13
176	Middle Jurassic-Early Cretaceous high-latitude sea-surface temperatures from the Southern Ocean		13
175	Natrarchaeobius chitinivorans gen. nov., sp. nov., and Natrarchaeobius halalkaliphilus sp. nov., alkaliphilic, chitin-utilizing haloarchaea from hypersaline alkaline lakes. *Systematic and Applied Microbiology*, **2019**, 42, 309-318	4.2	13
174	Long-chain diols in rivers: distribution and potential biological sources. *Biogeosciences*, **2018**, 15, 4147-4164	4.6	13
173	Response of the North Atlantic surface and intermediate ocean structure to climate warming of MIS 11. *Scientific Reports*, **2017**, 7, 46192	4.9	12
172	Impact of culturing conditions on the abundance and composition of long chain alkyl diols in species of the genus Nannochloropsis. *Organic Geochemistry*, **2017**, 108, 9-17	3.1	12
171	Biogeochemical consequences of vertical and lateral transport of particulate organic matter in the southern North Sea: A multiproxy approach. *Estuarine, Coastal and Shelf Science*, **2015**, 165, 117-127	2.9	12
170	Palaeoclimate and palaeoceanographic conditions in the westernmost Mediterranean over the last millennium: an integrated organic and inorganic approach. *Journal of the Geological Society*, **2015**, 172, 264-271	2.7	12
169	Global temperature calibration of the Long chain Diol Index in marine surface sediments. *Organic Geochemistry*, **2020**, 142, 103983	3.1	12
168	Impact of organic matter source and quality on living benthic foraminiferal distribution on a river-dominated continental margin: A study of the Portuguese margin. *Journal of Geophysical Research G: Biogeosciences*, **2016**, 121, 1689-1714	3.7	12
167	Short chain ladderanes: Oxic biodegradation products of anammox lipids. *Geochimica Et Cosmochimica Acta*, **2011**, 75, 1662-1671	5.5	12
166	A sedimentary fluorene derivative of bacteriohopanepolyols. *Tetrahedron Letters*, **1998**, 39, 3021-3024	2	12
165	Seasonal Variation in the Stable Carbon Isotopic Composition of Algal Lipids in a Shallow Anoxic Fjord: Evaluation of the Effect of Recycling of Respired CO2 on the ´13C of Organic Matter. *Numerische Mathematik*, **2006**, 306, 367-387	5.3	12
164	Lipid biomarkers in sediments of mud volcanoes from the Sorokin Trough, NE Black Sea: Probable source strata for the erupted material. *Organic Geochemistry*, **2007**, 38, 67-83	3.1	12

163	Mixed sources contribute to the molecular isotopic signature of methane-rich mud breccia sediments of Kazan mud volcano (eastern Mediterranean). *Organic Geochemistry*, **2005**, 36, 13-27	3.1	12
162	A sedimentary tetrahydrophenanthrene derivative of tetrahymanol. *Tetrahedron Letters*, **1999**, 40, 3949-3952	2	12
161	Land–sea coupling of early Pleistocene glacial cycles in the southern North Sea exhibit dominant Northern Hemisphere forcing. *Climate of the Past*, **2018**, 14, 397-411	3.9	12
160	Lipids as paleomarkers to constrain the marine nitrogen cycle. *Environmental Microbiology*, **2017**, 19, 2119-2132	5.2	11
159	Change in provenance of branched glycerol dialkyl glycerol tetraethers over the Holocene in the Baltic Sea and its impact on continental climate reconstruction. *Organic Geochemistry*, **2018**, 121, 138-154	3.1	11
158	Unusual C35 to C38 alkenones in mid-Holocene sediments from a restricted estuary (Charlotte Harbor, Florida). *Organic Geochemistry*, **2014**, 70, 20-28	3.1	11
157	Steroid Carbon Skeletons with Unusually Branched C-3 Alkyl Side Chains in Sulphur-Rich Sediments. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 1127-1132	5.5	11
156	Does fossil pigment and DNA data from Mediterranean sediments invalidate the use of green sulfur bacterial pigments and their diagenetic derivatives as proxies for the assessment of past photic zone euxinia?. *Environmental Microbiology*, **2008**, 10, 1392-9	5.2	11
155	An unusual 17β,21(H)-bacteriohopanetetrol in Holocene sediments from Ace Lake (Antarctica). *Organic Geochemistry*, **2008**, 39, 1029-1032	3.1	11
154	Stable carbon isotope fractionations of the hyperthermophilic crenarchaeon Metallosphaera sedula. *FEMS Microbiology Letters*, **2001**, 196, 67-70	2.9	11
153	Molecular characterization of organically-bound sulfur in crude oils. A feasibility study for the application of Raney Ni desulfurization as a new method to characterize crude oils. *Journal of High Resolution Chromatography*, **1994**, 17, 489-500		11
152	Biogeochemistry of Gavish Sabkha Sediments. *Ecological Studies*, **1985**, 350-367	1.1	11
151	Frigoriglobus tundricola gen. nov., sp. nov., a psychrotolerant cellulolytic planctomycete of the family Gemmataceae from a littoral tundra wetland. *Systematic and Applied Microbiology*, **2020**, 43, 126129	4.2	11
150	Increasing P limitation and viral infection impact lipid remodeling of the picophytoplankter <i>Micromonas pusilla</i>. *Biogeosciences*, **2016**, 13, 1667-1676	4.6	11
149	A high-resolution record of environmental changes from a Cretaceous-Paleogene section of Seymour Island, Antarctica. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2020**, 555, 109844	2.9	10
148	A unique bacteriohopanetetrol stereoisomer of marine anammox. *Organic Geochemistry*, **2020**, 143, 103994	3.1	10
147	A cold and fresh ocean surface in the Nordic Seas during MIS 11: Significance for the future ocean. *Geophysical Research Letters*, **2016**, 43, 10,929-10,937	4.9	10
146	Production of branched tetraethers in the marine realm: Svalbard fjord sediments revisited. *Organic Geochemistry*, **2019**, 138, 103907	3.1	10

145	Impact of river channel shifts on tetraether lipids in the Rhˆ ne prodelta (NW Mediterranean): Implication for the BIT index as an indicator of palaeoflood events. *Organic Geochemistry*, **2014**, 75, 99-108	3.1	10
144	Palaeohydrological controls on sedimentary organic matter in an Amazon floodplain lake, Lake Maracˆ (Brazil) during the late Holocene. *Holocene*, **2013**, 23, 1903-1914	2.6	10
143	Incomplete recovery of intact polar glycerol dialkyl glycerol tetraethers from lacustrine suspended biomass. *Limnology and Oceanography: Methods*, **2017**, 15, 782-793	2.6	10
142	Cyclisation, aromatisation and expulsion reactions of carotene during sediment diagenesis. *Tetrahedron Letters*, **1997**, 38, 2347-2350	2	10
141	Carbon isotopic composition of an isoprenoid-rich oil and its potential source rock. *Organic Geochemistry*, **2001**, 32, 87-103	3.1	10
140	On the origin of alkylbenzenes in geochemical samples. *Marine Chemistry*, **1985**, 16, 187-188	3.7	10
139	sp. nov., a member of the family from lichen-dominated forested tundra. *International Journal of Systematic and Evolutionary Microbiology*, **2018**, 68, 1265-1270	2.2	10
138	sp. nov. and gen. nov., sp. nov., the first sulfur-respiring alkaliphilic haloarchaea from hypersaline alkaline lakes. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 2662-2673	2.2	10
137	Is deep-water formation in the Baltic Sea a key to understanding seabed dynamics and ventilation changes over the past 7,000 years?. *Quaternary International*, **2020**, 550, 55-65	2	10
136	The vertical distribution of Thaumarchaeota in the water column of Lake Malawi inferred from core and intact polar tetraether lipids. *Organic Geochemistry*, **2019**, 132, 37-49	3.1	9
135	Constraining the application of hydrogen isotopic composition of alkenones as a salinity proxy using marine surface sediments. *Geochimica Et Cosmochimica Acta*, **2019**, 250, 34-48	5.5	9
134	The Holocene sedimentary record of cyanobacterial glycolipids in the Baltic Sea: an evaluation of their application as tracers of past nitrogen fixation. *Biogeosciences*, **2017**, 14, 5789-5804	4.6	9
133	A late Holocene molecular hydrogen isotope record of the East Asian Summer Monsoon in Southwest Japan. *Quaternary Research*, **2016**, 86, 287-294	1.9	9
132	The impact of oxygen exposure on long-chain alkyl diols and the long chain diol index (LDI) a long-term incubation study. *Organic Geochemistry*, **2018**, 124, 238-246	3.1	9
131	Biomarker evidence for nitrogen-fixing cyanobacterial blooms in a brackish surface layer in the Nile River plume during sapropel deposition. *Geology*, **2019**, 47, 1088-1092	5	9
130	Structural identification of sedimentary C21 and C22 highly branched isoprenoid alkanes. *Organic Geochemistry*, **2005**, 36, 511-517	3.1	9
129	C32?C36 polymethyl alkenes in Black Sea sediments. *Geochimica Et Cosmochimica Acta*, **1995**, 59, 347-353	3.5	9
128	Organic geochemical evidence for a series of C25 28 sulphur-containing lipids comprising regular and irregular isoprenoid and unusual linearly extended phytane skeletons. *Journal of the Chemical Society Chemical Communications*, **1989**, 1105-1107		9

127	Identification and occurrence of novel C36–C54 3,4-dialkylthiophenes with an unusual carbon skeleton in immature sediments. *Organic Geochemistry*, **1990**, 16, 1103-1113	3.1	9
126	δ13C values and radiocarbon dates of microbial biomarkers as tracers for carbon recycling in peat deposits. *Geology*, **2000**, 28, 663-666	5	9
125	Bridging the divide: bacteria synthesizing archaeal membrane lipids		9
124	Des-A-lupane in an East African lake sedimentary record as a new proxy for the stable carbon isotopic composition of C3 plants. *Organic Geochemistry*, **2016**, 101, 132-139	3.1	9
123	Bacterial GMGTs in East African lake sediments: Their potential as palaeotemperature indicators. *Geochimica Et Cosmochimica Acta*, **2019**, 259, 155-169	5.5	8
122	A multiproxy study of past environmental changes in the Sea of Okhotsk during the last 1.5 Ma. *Organic Geochemistry*, **2019**, 132, 50-61	3.1	8
121	Reconstructing tropical cyclone frequency using hydrogen isotope ratios of sedimentary n-alkanes in northern Queensland, Australia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2013**, 376, 66-72	2.9	8
120	The molecular composition of kerogen in Pliocene Mediterranean sapropels and associated homogeneous calcareous ooze. *Organic Geochemistry*, **2005**, 36, 1037-1053	3.1	8
119	Fossil DNA in cretaceous black shales: myth or reality?. *Astrobiology*, **2006**, 6, 299-302	3.7	8
118	Influence of Sulphur Cross-linking on the Molecular-Size Distribution of Sulphur-Rich Macromolecules in Bitumen. *ACS Symposium Series*, **1995**, 80-92	0.4	8
117	Flash pyrolysis of silicon-bound hydrocarbons. *Journal of Analytical and Applied Pyrolysis*, **1991**, 20, 141-160		8
116	Selective cleavage of acyclic sulphide moieties of sulphur-rich geomacromolecules by superheated methyl iodide. *Organic Geochemistry*, **1993**, 20, 911-916	3.1	8
115	The identification and geochemical significance of a second series of alkylthiophenes comprising a linearly extended phytane skeleton in sediments and oils. *Geochimica Et Cosmochimica Acta*, **1989**, 53, 3317-3322	5.5	8
114	Distribution of Organic Sulfur Compounds in Mesozoic and Cenozoic Sediments from the Atlantic and Pacific Oceans and the Gulf of California. *ACS Symposium Series*, **1990**, 613-632	0.4	8
113	Seasonal changes in the D / H ratio of fatty acids of pelagic microorganisms in the coastal North Sea. *Biogeosciences*, **2016**, 13, 5527-5539	4.6	8
112	Long-chain diols in settling particles in tropical oceans: insights into sources, seasonality and proxies. *Biogeosciences*, **2019**, 16, 1705-1727	4.6	7
111	Miocene climate and vegetation changes in the Cape Peninsula, South Africa: Evidence from biogeochemistry and palynology. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2016**, 445, 124-137	2.9	7
110	Bacteriohopanepolyol distribution in Yenisei River and Kara Sea suspended particulate matter and sediments traces terrigenous organic matter input. *Geochimica Et Cosmochimica Acta*, **2016**, 174, 85-101	5.5	7

109	A novel heterocyst glycolipid detected in a pelagic N2-fixing cyanobacterium of the genus Calothrix. *Organic Geochemistry*, **2018**, 123, 44-47	3.1	7
108	Evidence for fire in the Pliocene Arctic in response to amplified temperature. *Climate of the Past*, **2019**, 15, 1063-1081	3.9	7
107	Generation of unusual branched long chain alkanes from hydrous pyrolysis of anammox bacterial biomass. *Organic Geochemistry*, **2014**, 76, 136-145	3.1	7
106	Natural Environmental Changes versus Human Impact in a Florida Estuary (Rookery Bay, USA). *Estuaries and Coasts*, **2013**, 36, 149-157	2.8	7
105	Distribution and isotopic composition of bacterial lipid biomarkers in microbial mats from a sulfidic Icelandic hot spring. *Organic Geochemistry*, **2008**, 39, 1015-1019	3.1	7
104	Structural identification of the beta-hydroxy fatty acid-based diester preen gland waxes of shorebirds. *Journal of Natural Products*, **2007**, 70, 1804-7	4.9	7
103	Structural identification of steryl alkyl ethers in marine sediments. *Organic Geochemistry*, **2005**, 36, 1323-1333	3.1	7
102	The influence of mineral matter on the separation of amorphous marine kerogens using density gradient centrifugation. *Organic Geochemistry*, **1995**, 23, 777-784	3.1	7
101	Organohalide-respiring Desulfoluna species isolated from marine environments. *ISME Journal*, **2020**, 14, 815-827	11.9	7
100	Assessing the Effect of Humic Substances and Fe(III) as Potential Electron Acceptors for Anaerobic Methane Oxidation in a Marine Anoxic System. *Microorganisms*, **2020**, 8,	4.9	7
99	Validation of carbon isotope fractionation in algal lipids as a <i>p</i>CO₂ proxy using a natural CO₂ seep (Shikine Island, Japan). *Biogeosciences*, **2019**, 16, 4451-4461	4.6	7
98	Comparison of organic and palynological proxies for biomass burning and vegetation in a lacustrine sediment record (Lake Allom, Fraser Island, Australia). *Organic Geochemistry*, **2019**, 133, 10-19	3.1	6
97	Impact of Electron Acceptor Availability on Methane-Influenced Microorganisms in an Enrichment Culture Obtained From a Stratified Lake. *Frontiers in Microbiology*, **2020**, 11, 715	5.7	6
96	Development and comparison of chromatographic methods for the analysis of long chain diols and alkenones in biological materials and sediment. *Journal of Chromatography A*, **2017**, 1521, 150-160	4.5	6
95	Acquisition of intact polar lipids from the prymnesiophyte <i>Phaeocystis globosa</i> by its lytic virus PgV-07T. *Biogeosciences*, **2014**, 11, 185-194	4.6	6
94	Diversity and distribution of a key sulpholipid biosynthetic gene in marine microbial assemblages. *Environmental Microbiology*, **2014**, 16, 774-87	5.2	6
93	Occurrence and Carbon Metabolism of Green Nonsulfur-like Bacteria in Californian and Nevada Hot Spring Microbial mats as Revealed by Wax Ester Lipid Analysis. *Geomicrobiology Journal*, **2009**, 26, 179-188	2.5	6
92	Correction to Euxinia and primary production in Late Cretaceous eastern equatorial Atlantic surface waters fostered orbitally driven formation of marine black shales *Paleoceanography*, **2004**, 19, n/a-n/a		6

91	Sulphur-containing compounds in sulphur-rich crude oils from hypersaline lake sediments and their geochemical implications. *Geochemistry*, **1987**, 6, 115-126		6
90	Fatty acid dynamics during viral infection of Phaeocystis globosa. *Aquatic Microbial Ecology*, **2015**, 74, 85-94	1.1	6
89	Climate variability and relationship with ocean fertility during the Aptian Stage		6
88	Granulicella sibirica sp. nov., a psychrotolerant acidobacterium isolated from an organic soil layer in forested tundra, West Siberia. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 1195-1201	2.2	6
87	Halococcoides cellulosivorans gen. nov., sp. nov., an extremely halophilic cellulose-utilizing haloarchaeon from hypersaline lakes. *International Journal of Systematic and Evolutionary Microbiology*, **2019**, 69, 1327-1335	2.2	6
86	Lipidomics of Environmental Microbial Communities. I: Visualization of Component Distributions Using Untargeted Analysis of High-Resolution Mass Spectrometry Data. *Frontiers in Microbiology*, **2021**, 12, 659302	5.7	6
85	Spatial and seasonal contrasts of sedimentary organic matter in floodplain lakes of the central Amazon basin. *Biogeosciences*, **2016**, 13, 467-482	4.6	6
84	Late Quaternary Biomass Burning in Northwest Africa and Interactions With Climate, Vegetation, and Humans. *Paleoceanography and Paleoclimatology*, **2019**, 34, 153-163	3.3	6
83	Nitrate promotes the transfer of methane-derived carbon from the methanotroph Methylobacter sp. to the methylotroph Methylotenera sp. in eutrophic lake water. *Limnology and Oceanography*, **2021**, 66, 878-891	4.8	6
82	C₅ glycolipids of heterocystous cyanobacteria track symbiont abundance in the diatom <i>Hemiaulus hauckii</i> across the tropical North Atlantic. *Biogeosciences*, **2018**, 15, 1229-1241	4.6	6
81	Influence of temperature on the □C values and distribution of methanotroph-related hopanoids in Sphagnum-dominated peat bogs. *Geobiology*, **2020**, 18, 497-507	4.3	5
80	Alkenone Distributions and Hydrogen Isotope Ratios Show Changes in Haptophyte Species and Source Water in the Holocene Baltic Sea. *Geochemistry, Geophysics, Geosystems*, **2020**, 21, e2019GC008751	3.6	5
79	Demethylated hopanoids in □a. Methylomirabilis oxyfera□s biomarkers for environmental nitrite-dependent methane oxidation. *Organic Geochemistry*, **2019**, 137, 103899	3.1	5
78	Tropical environmental changes at the mid-Pleistocene transition: insights from lipid biomarkers. *Geological Society Special Publication*, **2005**, 247, 35-64	1.7	5
77	Physiological, chemotaxonomic and genomic characterization of two novel piezotolerant bacteria of the family Marinifilaceae isolated from sulfidic waters of the Black Sea. *Systematic and Applied Microbiology*, **2020**, 43, 126122	4.2	5
76	Microbial community development on model particles in the deep sulfidic waters of the Black Sea. *Environmental Microbiology*, **2021**, 23, 2729-2746	5.2	5
75	A method for quantifying heterocyst glycolipids in biomass and sediments. *Organic Geochemistry*, **2017**, 110, 33-35	3.1	4
74	A new age model for the Pliocene of the southern North Sea basin: a multi-proxy climate reconstruction. *Climate of the Past*, **2020**, 16, 523-541	3.9	4

73	Freshwater discharge controlled deposition of Cenomanian-Turonian black shales on the NW European epicontinental shelf (Wunstorf, North Germany)		4
72	Short-term variability in the sedimentary BIT index of Lake Challa, East Africa over the past 2200 years: validating the precipitation proxy		4
71	Total Synthesis of the Alleged Structure of Crenarchaeol Enables Structure Revision*. *Angewandte Chemie - International Edition*, **2021**, 60, 17504-17513	16.4	4
70	A seasonal study of particulate organic matter composition and quality along an offshore transect in the southern North Sea. *Estuarine, Coastal and Shelf Science*, **2017**, 188, 1-11	2.9	3
69	Biosynthesis of Long Chain Alkyl Diols and Long Chain Alkenols in Nannochloropsis spp. (Eustigmatophyceae). *Plant and Cell Physiology*, **2019**, 60, 1666-1682	4.9	3
68	Butyrate Conversion by Sulfate-Reducing and Methanogenic Communities from Anoxic Sediments of Aarhus Bay, Denmark. *Microorganisms*, **2020**, 8,	4.9	3
67	Variations in benthic foraminiferal assemblages in the Tagus mud belt during the last 5700 years: Implications for Tagus River discharge. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2018**, 496, 225-237	2.9	3
66	Assessing the metabolism of sedimentary microbial communities using the hydrogen isotopic composition of fatty acids. *Organic Geochemistry*, **2018**, 124, 123-132	3.1	3
65	Tracing tetraether lipids from source to sink in the Rhˆ he River system (NW Mediterranean). *Frontiers in Earth Science*, **2015**, 3,	3.5	3
64	Origin of lipid biomarkers in mud volcanoes from the Alboran Sea, western Mediterranean. *Biogeosciences*, **2014**, 11, 3187-3204	4.6	3
63	A late Quaternary sedimentary record of steryl alkyl ethers from offshore southeastern Australia. *Organic Geochemistry*, **2013**, 54, 140-145	3.1	3
62	Occurrence of C35 45 polyprenols in filamentous and unicellular cyanobacteria. *Organic Geochemistry*, **2010**, 41, 867-870	3.1	3
61	Long-Chain 3-Isopropyl Alkanes: A New Class of Sedimentary Acyclic Hydrocarbons. *Geochimica Et Cosmochimica Acta*, **1998**, 62, 961-964	5.5	3
60	Molecular Characterization of Vitrinite Maturation as Revealed by Flash Pyrolysis Methods. *ACS Symposium Series*, **1994**, 149-160	0.4	3
59	Comments on Organic sulphur compounds produced by flash pyrolysis of Timhadit oil shale by M. Ishiwatari, H. Sakashita, T. Tatsumi and H. Tominaga. *Journal of Analytical and Applied Pyrolysis*, **1991**, 18, 353-356	6	3
58	Seasonal and multi-annual variation in the abundance of isoprenoid GDGT membrane lipids and their producers in the water column of a meromictic equatorial crater lake (Lake Chala, East Africa). *Quaternary Science Reviews*, **2021**, 273, 107263	3.9	3
57	Variation in Organic-Matter Composition and its Impact on Organic-Carbon Preservation in the Kimmeridge Clay Formation (Upper Jurassic, Dorset, Southern England) **2011**, 261-278		3
56	Spatial and seasonal contrasts of sedimentary organic matter in floodplain lakes of the central Amazon basin		3

55	gen. nov., sp. nov., a new member of the phylum isolated from an oilsands tailings pond. *International Journal of Systematic and Evolutionary Microbiology*, **2018**, 68, 1078-1084	2.2	3
54	gen. nov., sp. nov., an aerobic methanotroph isolated from an oil sands tailings pond. *International Journal of Systematic and Evolutionary Microbiology*, **2020**, 70, 2499-2508	2.2	3
53	Identifying marine and freshwater overprints on soil-derived branched GDGT temperature signals in Pliocene Mississippi and Amazon River fan sediments. *Organic Geochemistry*, **2021**, 154, 104200	3.1	3
52	Organic Matter Type Defines the Composition of Active Microbial Communities Originating From Anoxic Baltic Sea Sediments. *Frontiers in Microbiology*, **2021**, 12, 628301	5.7	3
51	Lipidomics of Environmental Microbial Communities. II: Characterization Using Molecular Networking and Information Theory. *Frontiers in Microbiology*, **2021**, 12, 659315	5.7	3
50	Diagnostic amide products of amino lipids detected in the microaerophilic bacteria Lutibacter during routine fatty acid analysis using gas chromatography. *Organic Geochemistry*, **2020**, 144, 104027	3.1	2
49	Paleosensitivity of Hydrogen Isotope Ratios of Long-Chain Alkenones to Salinity Changes at the Chile Margin. *Paleoceanography and Paleoclimatology*, **2019**, 34, 978-989	3.3	2
48	Hydrogen isotopic ratios of long-chain diols reflect salinity. *Organic Geochemistry*, **2019**, 137, 103904	3.1	2
47	Compound-specific stable isotope analysis of nitrogen-containing intact polar lipids. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 2263-71	2.2	2
46	Nitrification and growth of autotrophic nitrifying bacteria and Thaumarchaeota in the coastal North Sea **2012**,		2
45	Correction to Reconstruction of sea surface temperature variations in the Arabian Sea over the last 23 kyr using organic proxies (TEX86 and U37K?) *Paleoceanography*, **2006**, 21,		2
44	Distributions and sources of isoprenoidal GDGTs in Lake Lugano and other central European (peri-)alpine lakes: Lessons for their use as paleotemperature proxies. *Quaternary Science Reviews*, **2022**, 277, 107352	3.9	2
43	Transport of branched tetraether lipids from the Tagus River basin to the coastal ocean of the Portuguese margin: consequences for the interpretation of the MBT'/CBT paleothermometer		2
42	Provenance of tetraether membrane lipids in a large temperate lake (Loch Lomond, UK): implications for GDGT-based palaeothermometry		2
41	Constraints on the applicability of the organic temperature proxies U^{K'}₃₇, TEX₈₆ and LDI in the subpolar region around Iceland		2
40	Increasing P-stress and viral infection impact lipid remodeling of the picophytoplankter <i>Micromonas pusilla</i>		2
39	Intact polar lipids of Thaumarchaeota and anammox bacteria as indicators of N-cycling in the Eastern Tropical North Pacific oxygen deficient zone		2
38	Assessment of soil <i>n</i>-alkane <i>D</i> and branched tetraether membrane lipid distributions as tools for paleoelevation reconstruction		2

37	Latitudinal differences in the amplitude of the OAE-2 carbon isotopic excursion: <i>p</i>CO₂ and paleoproductivity		2
36	Holocene climate variations in the western Antarctic Peninsula: evidence for sea ice extent predominantly controlled by insolation and ENSO variability changes		2
35	Testing algal-based pCO proxies at a modern CO seep (Vulcano, Italy). *Scientific Reports*, **2020**, 10, 10508	4.9	2
34	Natranaerofaba carboxydovora gen. nov., sp. nov., an extremely haloalkaliphilic CO-utilizing acetogen from a hypersaline soda lake representing a novel deep phylogenetic lineage in the class 'Natranaerobiia'. *Environmental Microbiology*, **2021**, 23, 3460-3476	5.2	2
33	Molecular and Physiological Adaptations to Low Temperature in Strains Isolated from Soda Lakes with Different Temperature Regimes. *MSystems*, **2021**, 6,	7.6	2
32	Analysis of non-derivatized bacteriohopanepolyols using UHPLC-HRMS reveals great structural diversity in environmental lipid assemblages. *Organic Geochemistry*, **2021**, 160, 104285	3.1	2
31	Analysis of intact tetraether lipids in archaeal cell material and sediments by high performance liquid chromatography/atmospheric pressure chemical ionization mass spectrometry **2000**, 14, 585		2
30	Hydrogen isotope fractionation response to salinity and alkalinity in a calcifying strain of Emiliania huxleyi. *Organic Geochemistry*, **2019**, 134, 62-65	3.1	1
29	Organic carbon in sediments. *Nature*, **1995**, 373, 293-294	50.4	1
28	Bacteriohopanetetrol-<i>x</i>: constraining its application as a lipid biomarker for marine anammox using the water column oxygen gradient of the Benguela upwelling system. *Biogeosciences*, **2022**, 19, 201-221	4.6	1
27	Cyclic sediment deposition by orbital forcing in the Miocene wetland of western Amazonia? New insights from a multidisciplinary approach. *Global and Planetary Change*, **2022**, 210, 103717	4.2	1
26	Changes in the distribution of membrane lipids during growth of at different temperatures: Indications for the potential mechanism of biosynthesis of ether-bound diabolic acid (membrane-spanning) lipids. *Applied and Environmental Microbiology*, **2021**, AEM0176321	4.8	1
25	Reconstructing the diet, trophic level, and migration pattern of Mysticete whales based on baleen isotopic composition		1
24	Rapid climate changes in the westernmost Mediterranean (Alboran Sea) over the last 35 kyr: New insights from four lipid paleothermometers (U K' 37 , TEX H 86 , RI-OH' and LDI). *Paleoceanography and Paleoclimatology*,	3.3	1
23	Acquisition of intact polar lipids from the Prymnesiophyte <i>Phaeocystis globosa</i> by its lytic virus PgV-07T		1
22	Origin of lipid biomarkers in mud volcanoes from the Alboran Sea, western Mediterranean		1
21	Occurrence and distribution of ladderane oxidation products in different oceanic regimes		1
20	Salinity changes in the Agulhas leakage area recorded by stable hydrogen isotopes of C₃₇ alkenones during Termination I and II		1

19	The physiology and metabolic properties of a novel, low-abundance Psychrilyobacter species isolated from the anoxic Black Sea shed light on its ecological role. *Environmental Microbiology Reports*, **2021**, 13, 899-910	3.7	1
18	Actinocrinis puniceicyclus gen. nov., sp. nov., an actinobacterium isolated from an acidic spring. *International Journal of Systematic and Evolutionary Microbiology*, **2017**, 67, 602-609	2.2	1
17	Algal biomarkers as a proxy for pCO2: Constraints from late quaternary sapropels in the eastern Mediterranean. *Organic Geochemistry*, **2020**, 150, 104123	3.1	1
16	Novel hydrocarbon-utilizing soil mycobacteria synthesize unique mycocerosic acids at a Sicilian everlasting fire. *Biogeosciences*, **2021**, 18, 1463-1479	4.6	1
15	A multiproxy approach to characterize the sedimentation of organic carbon in the Amazon continental shelf. *Marine Chemistry*, **2021**, 232, 103961	3.7	1
14	Sources and seasonality of long-chain diols in a temperate lake (Lake Geneva). *Organic Geochemistry*, **2021**, 156, 104223	3.1	1
13	Origin, formation and environmental significance of des-A-arborenes in the sediments of an East African crater lake. *Organic Geochemistry*, **2018**, 125, 95-108	3.1	1
12	Anoxic in situ production of bacterial GMGTs in the water column and surficial bottom sediments of a meromictic tropical crater lake: Implications for lake paleothermometry. *Geochimica Et Cosmochimica Acta*, **2021**, 306, 171-188	5.5	1
11	Halapricum desulfuricans sp. nov., carbohydrate-utilizing, sulfur-respiring haloarchaea from hypersaline lakes. *Systematic and Applied Microbiology*, **2021**, 44, 126249	4.2	1
10	Interplay between microbial community composition and chemodiversity of dissolved organic matter throughout the Black Sea water column redox gradient. *Limnology and Oceanography*, **2022**, 67, 329-347	4.8	1
9	Applicability of the Long Chain Diol Index (LDI) as a Sea Surface Temperature Proxy in the Arabian Sea. *Paleoceanography and Paleoclimatology*, **2021**, 36,	3.3	1
8	Chemocline of the Black Sea. *Nature*, **1993**, 366, 416-416	50.4	0
7	Widespread wildfire across the Pliocene Canadian Arctic Archipelago. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2021**, 584, 110653	2.9	0
6	Acetate Degradation at Low pH by the Moderately Acidophilic Sulfate Reducer gen. nov. sp. nov.. *Frontiers in Microbiology*, **2022**, 13, 816605	5.7	0
5	Paleoclimate reconstruction of the last 36 kyr based on branched glycerol dialkyl glycerol tetraethers in the Padul palaeolake record (Sierra Nevada, southern Iberian Peninsula). *Quaternary Science Reviews*, **2022**, 281, 107434	3.9	0
4	Reconstructing the diet, trophic level and migration pattern of mysticete whales based on baleen isotopic composition.. *Royal Society Open Science*, **2021**, 8, 210949	3.3	0
3	Natronocalculus amylovorans gen. nov., sp. nov., and Natranaeroarchaeum aerophilus sp. nov., dominant culturable amylolytic natronoarchaea from hypersaline soda lakes in southwestern Siberia. *Systematic and Applied Microbiology*, **2022**, 45, 126336	4.2	0
2	Total Synthesis of the Alleged Structure of Crenarchaeol Enables Structure Revision**. *Angewandte Chemie*, **2021**, 133, 17645-17654	3.6	

1 Molecular Palaeontological Evidence for Food-Web Relationships. *Die Naturwissenschaften*, **1994**, 81, 128-130 2