Michael A Arthur

List of Publications by Citations

103 papers	10,823 citations	55 h-index	104 g-index
108 ext. papers	11,725 ext. citations	10.2 avg, IF	6.05 L-index

#	Paper	IF	Citations
103	Interpreting carbon-isotope excursions: carbonates and organic matter. *Chemical Geology*, **1999**, 161, 181-198	4.2	716
102	Chemical Weathering, Atmospheric CO2, and Climate. *Annual Review of Earth and Planetary Sciences*, **2000**, 28, 611-667	15.3	548
101	Marine Black Shales: Depositional Mechanisms and Environments of Ancient Deposits. *Annual Review of Earth and Planetary Sciences*, **1994**, 22, 499-551	15.3	516
100	Geochemical and climatic effects of increased marine organic carbon burial at the Cenomanian/Turonian boundary. *Nature*, **1988**, 335, 714-717	50.4	445
99	Late miocene atmospheric CO(2) concentrations and the expansion of C(4) grasses. *Science*, **1999**, 285, 876-9	33.3	404
98	Massive release of hydrogen sulfide to the surface ocean and atmosphere during intervals of oceanic anoxia. *Geology*, **2005**, 33, 397	5	365
97	Miocene evolution of atmospheric carbon dioxide. *Paleoceanography*, **1999**, 14, 273-292		342
96	Two or four Neoproterozoic glaciations?. *Geology*, **1998**, 26, 1059	5	283
95	Geochemical evidence for suppression of pelagic marine productivity at the Cretaceous/Tertiary boundary. *Nature*, **1989**, 337, 61-64	50.4	276
94	Orbital time scale and new C-isotope record for Cenomanian-Turonian boundary stratotype. *Geology*, **2006**, 34, 125	5	251
93	Timing and Paleoceanography of Oceanic Dysoxia/Anoxia in the Late Barremian to Early Aptian (Early Cretaceous). *Palaios*, **1994**, 9, 335	1.6	210
92	Methane-rich Proterozoic atmosphere?. *Geology*, **2003**, 31, 87	5	204
91	STABLE ISOTOPES OF OXYGEN AND CARBON AND THEIR APPLICATION TO SEDIMENTOLOGIC AND PALEOENVIRONMENTAL PROBLEMS **1983**, 1-1-1-151		203
90	The sulfur isotopic composition of Neoproterozoic seawater sulfate: implications for a snowball Earth?. *Earth and Planetary Science Letters*, **2002**, 203, 413-429	5.3	197
89	Depletion of 13C in Cretaceous marine organic matter: Source, diagenetic, or environmental sigal?. *Marine Geology*, **1986**, 70, 119-157	3.3	191
88	Upper Cretaceous–Paleocene magnetic stratigraphy at Gubbio, Italy V. Type section for the Late Cretaceous-Paleocene geomagnetic reversal time scale. *Bulletin of the Geological Society of America* , **1977**, 88, 383	3.9	168
87	A Neogene seawater sulfur isotope age curve from calcareous pelagic microfossils. *Earth and Planetary Science Letters*, **1989**, 94, 189-198	5.3	163

86	Anomalous 13C enrichment in modern marine organic carbon. *Nature*, **1985**, 315, 216-218	50.4	161
85	Ocean stagnation and end-Permian anoxia. *Geology*, **2001**, 29, 7	5	157
84	Response of the Mid-Cretaceous global oceanic circulation to tectonic and CO2 forcings. *Paleoceanography*, **2001**, 16, 576-592		150
83	Glass from the Cretaceous/Tertiary boundary in Haiti. *Nature*, **1991**, 349, 482-487	50.4	146
82	Isotopic evidence for massive oxidation of organic matter following the great oxidation event. *Science*, **2011**, 334, 1694-6	33.3	141
81	15N/14N variations in Cretaceous Atlantic sedimentary sequences: implication for past changes in marine nitrogen biogeochemistry. *Earth and Planetary Science Letters*, **1987**, 82, 269-279	5.3	138
80	Sulfur isotopic evidence for chemocline upward excursions during the end-Permian mass extinction. *Geochimica Et Cosmochimica Acta*, **2006**, 70, 5740-5752	5.5	135
79	SECULAR VARIATIONS IN THE PELAGIC REALM **1977**, 19-50		135
78	Carbon isotope fractionation by marine phytoplankton in culture: The effects of CO2 concentration, pH, temperature, and species. *Global Biogeochemical Cycles*, **1994**, 8, 91-102	5.9	132
77	Anatomy and origin of a Cretaceous phosphorite-greensand giant, Egypt. *Sedimentology*, **1990**, 37, 123-154	3.3	130
76	Variations in pyrite texture, sulfur isotope composition, and iron systematics in the Black Sea: evidence for Late Pleistocene to Holocene excursions of the o2-h2s redox transition. *Geochimica Et Cosmochimica Acta*, **2001**, 65, 1399-1416	5.5	125
75	Organic-matter production and preservation and evolution of anoxia in the Holocene Black Sea. *Paleoceanography*, **1998**, 13, 395-411		122
74	Cretaceous rhythmic bedding sequences: a plausible link between orbital variations and climate. *Earth and Planetary Science Letters*, **1985**, 72, 327-340	5.3	118
73	Isotopic evidence for an anomalously low oceanic sulfate concentration following end-Permian mass extinction. *Earth and Planetary Science Letters*, **2010**, 300, 101-111	5.3	117
72	Neoproterozoic sulfur isotopes, the evolution of microbial sulfur species, and the burial efficiency of sulfide as sedimentary pyrite. *Geology*, **2005**, 33, 41	5	116
71	Growth history and ecology of the Atlantic surf clam, Spisula solidissima (Dillwyn), as revealed by stable isotopes and annual shell increments. *Journal of Experimental Marine Biology and Ecology*, **1983**, 73, 225-242	2.1	115
70	The Gulf of Suez-northern Red Sea neogene rift: a quantitive basin analysis. *Marine and Petroleum Geology*, **1988**, 5, 247-270	4.7	114
69	Petrology and major element geochemistry of Peru margin phosphorites and associated diagenetic minerals: Authigenesis in modern organic-rich sediments. *Marine Geology*, **1988**, 80, 231-267	3.3	111

68	Nitrogen cycling during the Cretaceous, Cenomanian-Turonian Oceanic Anoxic Event II. *Geochemistry, Geophysics, Geosystems*, **2007**, 8, n/a-n/a	3.6	110
67	Carbon isotopic evidence for chemocline upward excursions during the end-Permian event. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2007**, 248, 73-81	2.9	107
66	Upper Cretaceous–Paleocene magnetic stratigraphy at Gubbio, Italy I. Lithostratigraphy and sedimentology. *Bulletin of the Geological Society of America*, **1977**, 88, 367	3.9	102
65	Toward an orbital chronology for the early Aptian Oceanic Anoxic Event (OAE1a, ~120 Ma). *Earth and Planetary Science Letters*, **2008**, 271, 88-100	5.3	100
64	Estuarine circulation in the Turonian Western Interior seaway of North America. *Bulletin of the Geological Society of America*, **1996**, 108, 0941	3.9	100
63	Sulfur cycling in the aftermath of a 635-Ma snowball glaciation: Evidence for a syn-glacial sulfidic deep ocean. *Earth and Planetary Science Letters*, **2006**, 245, 551-570	5.3	99
62	Widespread venting of methane-rich fluids in Late Cretaceous (Campanian) submarine springs (Tepee Buttes), Western Interior seaway, U.S.A.. *Geology*, **1996**, 24, 799	5	98
61	Obliquity forcing of organic matter accumulation during Oceanic Anoxic Event 2. *Paleoceanography*, **2012**, 27, n/a-n/a		96
60	Sulfur cycling in a stratified euxinic lake with moderately high sulfate: Constraints from quadruple S isotopes. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 4953-4970	5.5	90
59	Tectonic forcings of Maastrichtian ocean-climate evolution. *Paleoceanography*, **1999**, 14, 103-117		89
58	Varve calibrated records of carbonate and organic carbon accumulation over the last 2000 years in the Black Sea. *Global Biogeochemical Cycles*, **1994**, 8, 195-217	5.9	88
57	Sediment deposition in the Late Holocene abyssal Black Sea with climatic and chronological implications. *Deep-sea Research Part A, Oceanographic Research Papers*, **1991**, 38, S1211-S1235		84
56	Modeling the mutualistic interactions between tubeworms and microbial consortia. *PLoS Biology*, **2005**, 3, e77	9.7	83
55	Seasonal temperature-salinity changes and thermocline development in the mid-Atlantic Bight as recorded by the isotopic composition of bivalves. *Geology*, **1983**, 11, 655	5	77
54	Organic carbon accumulation and preservation in surface sediments on the Peru margin. *Chemical Geology*, **1998**, 152, 273-286	4.2	76
53	Global Chemical Erosion during the Cenozoic: Weatherability Balances the Budgets **1997**, 399-426		75
52	Late Middle Ordovician environmental change and extinction: Harbinger of the Late Ordovician or continuation of Cambrian patterns?. *Geology*, **1997**, 25, 911	5	75
51	Sedimentary and geochemical indicators of productivity and oxygen contents in modern and ancient basins: The Holocene Black Sea as the "type" anoxic basin. *Chemical Geology*, **1985**, 48, 325-354	4.2	75

50	Shallow water redox conditions from the Permian–Triassic boundary microbialite: The rare earth element and iodine geochemistry of carbonates from Turkey and South China. *Chemical Geology*, **2013**, 351, 195-208	4.2	67
49	Middle Cretaceous reef collapse linked to ocean heat transport. *Geology*, **1996**, 24, 376	5	63
48	Carbonaceous sediments in the North and South Atlantic: The role of salinity in stable stratification of early Cretaceous basins. *Maurice Ewing Series*, **1979**, 375-401		55
47	Interspecies variation in stable isotopic signals of Maastrichtian planktonic foraminifera. *Paleoceanography*, **1995**, 10, 123-135		53
46	Water mass characteristics in the Cenomanian US Western Interior seaway as indicated by stable isotopes of calcareous organisms. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2002**, 188, 189-213	2.9	52
45	Sulfur diagenesis and partitioning in Holocene Peru shelf and upper slope sediments. *Chemical Geology*, **2000**, 163, 219-234	4.2	50
44	Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. *Geology*, **1987**, 15, 311	5	50
43	The Cretaceous/Tertiary Boundary Event in the North Pacific: Planktonic foraminiferal results from Deep Sea Drilling Project Site 577, Shatsky Rise. *Paleoceanography*, **1986**, 1, 97-117		48
42	Paleoceanographic events—Recognition, resolution, and reconsideration. *Reviews of Geophysics*, **1979**, 17, 1474	23.1	47
41	Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records. *Nature*, **1982**, 296, 432-434	50.4	46
40	Rhythmic bedding produced in Cretaceous pelagic carbonate environments: Sensitive recorders of climatic cycles. *Paleoceanography*, **1986**, 1, 467-481		44
39	Dysoxic/anoxic episodes in the Aptian-Albian (Early Cretaceous). *Geophysical Monograph Series*, **1993**, 5-37	1.1	43
38	Sea-Level Control on Source-Rock Development: Perspectives from the Holocene Black Sea, the Mid-Cretaceous Western Interior Basin of North America, and the Late Devonian Appalachian Basin **2011**, 35-59		42
37	The Maastrichtian record from Shatsky Rise (northwest Pacific): A tropical perspective on global ecological and oceanographic changes. *Paleoceanography*, **2005**, 20, n/a-n/a		41
36	Variations in Miocene phytoplankton growth rates in the southwest Atlantic: Evidence for changes in ocean circulation. *Paleoceanography*, **2000**, 15, 486-496		41
35	Carbon isotopic composition and lattice-bound carbonate of Peru-Chile margin phosphorites. *Marine Geology*, **1988**, 80, 287-307	3.3	39
34	Black Sea nitrogen cycling and the preservation of phytoplankton δ15N signals during the Holocene. *Global Biogeochemical Cycles*, **2012**, 26, n/a-n/a	5.9	38
33	Small-scale deformation structures and physical properties related to convergence in Japan Trench slope sediments. *Tectonics*, **1982**, 1, 277-302	4.3	37

32	Late Paleocene Arctic Ocean shallow-marine temperatures from mollusc stable isotopes. *Paleoceanography*, **1996**, 11, 241-249		35
31	Fine-fraction carbonate stable isotopes as indicators of seasonal shallow mixed-layer paleohydrography. *Marine Micropaleontology*, **2002**, 46, 317-342	1.7	32
30	Modification of sediment geochemistry by the hydrocarbon seep tubeworm Lamellibrachia luymesi: A combined empirical and modeling approach. *Geochimica Et Cosmochimica Acta*, **2008**, 72, 2298-2315	5.5	30
29	Isotope analyses of molecular and total organic carbon from miocene sediments. *Geochimica Et Cosmochimica Acta*, **2000**, 64, 37-49	5.5	29
28	Cooling in the late Cenozoic. *Nature*, **1993**, 361, 123-124	50.4	26
27	Deep water in the late Maastrichtian ocean. *Paleoceanography*, **2002**, 17, 8-1-8-11		25
26	Black Sea chemocline oscillations during the Holocene: molecular and isotopic studies of marginal sediments. *Organic Geochemistry*, **2000**, 31, 1525-1531	3.1	21
25	Bacterial production of anomalously high dissolved sulfate concentrations in Peru slope sediments: steady-state sulfur oxidation, or transient response to end of El Niño?. *Deep-Sea Research Part I: Oceanographic Research Papers*, **2000**, 47, 1829-1853	2.5	21
24	Subboreal aridity and scytonemin in the Holocene Black Sea. *Organic Geochemistry*, **2012**, 49, 47-55	3.1	20
23	Palaeoclimatology: tropical temperatures in greenhouse episodes. *Nature*, **2002**, 419, 897-8; discussion 898	50.4	20
22	Controls on the stratigraphic distribution and nitrogen isotopic composition of zinc, vanadyl and free base porphyrins through Oceanic Anoxic Event 2 at Demerara Rise. *Organic Geochemistry*, **2015** , 80, 60-71	3.1	19
21	Geochemical and paleoenvironmental variations across the Cretaceous/Tertiary boundary at Braggs, Alabama. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **1989**, 69, 245-266	2.9	18
20	Geodynamic, sedimentary and volcanic evolution of the Cape Bojador Continental Margin (NW Africa). *Maurice Ewing Series*, **1979**, 187-203		15
19	Interpreting the paleoenvironmental, paleoclimatic and life history records in mollusc shells. *Geobios*, **1984**, 17, 333-339	1.5	14
18	GEOCHEMICAL EXPRESSIONS OF CYCLICITY IN CRETACEOUS PELAGIC LIMESTONE SEQUENCES: NIOBRARA FORMATION, WESTERN INTERIOR SEAWAY **1998**, 227-255		14
17	Periphyton nutrient status in a temperate stream with mixed land-uses: implications for watershed nitrogen storage. *Hydrobiologia*, **2009**, 623, 141-152	2.4	13
16	The sulfur isotope composition of carbonate-associated sulfate in Mesoproterozoic to Neoproterozoic carbonates from Death Valley, California **2004**,		13
15	Intramolecular carbon isotopic analysis of acetic acid by direct injection of aqueous solution. *Organic Geochemistry*, **2009**, 40, 195-200	3.1	12

14	The Cenomanian-Turonian boundary event: sedimentary, faunal and geochemical criteria developed from stratigraphic studies in NW-Germany **1986**, 345-351		12
13	Nitrogen cycle dynamics in the Late Cretaceous Greenhouse. *Earth and Planetary Science Letters*, **2018**, 481, 404-411	5.3	12
12	Grain size of Cretaceous-Paleogene boundary sediments from Chicxulub to the open ocean: Implications for interpretation of the mass extinction event. *Geology*, **2010**, 38, 199-202	5	11
11	Unexpected occurrence and significance of zinc alkyl porphyrins in Cenomanian□Turonian black shales of the Demerara Rise. *Organic Geochemistry*, **2008**, 39, 1081-1087	3.1	9
10	Comparative Geochemical and Mineralogical Studies of Two Cyclic Transgressive Pelagic Limestone Units, Cretaceous Western Interior Basin, U.S.16-27		9
9	Compound-specific □15N and chlorin preservation in surface sediments of the Peru Margin with implications for ancient bulk □15N records. *Geochimica Et Cosmochimica Acta*, **2015**, 160, 306-318	5.5	8
8	Chlorins in mid-Cretaceous black shales of the Demerara Rise: The oldest known occurrence. *Organic Geochemistry*, **2011**, 42, 856-859	3.1	8
7	Organic carbon production and preservation in response to sea-level changes in the Turonian Carlile Formation, U.S. Western Interior Basin. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2006**, 235, 223-244	2.9	7
6	Correcting porewater concentration measurements from peepers: Application of a reverse tracer. *Limnology and Oceanography: Methods*, **2010**, 8, 403-413	2.6	6
5	CRETACEOUS WESTERN INTERIOR SEAWAY DRILLING PROJECT: AN OVERVIEW **1998**, 1-10		6
4	Sedimentation across the Japan Trench off northern Honshu Island. *Geological Society Special Publication*, **1982**, 10, 27-48	1.7	5
3	Early to Middle Miocene Paleoceanography in the Southern High Latitudes off Tasmania. *Geophysical Monograph Series*, **2004**, 215-233	1.1	3
2	ORGANIC GEOCHEMISTRY OF THE CRETACEOUS WESTERN INTERIOR SEAWAY: A TRANS-BASINAL EVALUATION **1998**, 173-188		3
1	The diagenetic origin and depositional history of the Cherry Valley Member, Middle Devonian Marcellus Formation. *Chemical Geology*, **2020**, 558, 119875	4.2	1