Michael A Arthur

List of Publications by Year
in descending order

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107	13,321	26626	37202
papers	citations	56 h-index	96 g-index

108	108	108	7291
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interpreting carbon-isotope excursions: carbonates and organic matter. Chemical Geology, 1999, 161, 181-198.	3.3	900
2	Marine Black Shales: Depositional Mechanisms and Environments of Ancient Deposits. Annual Review of Earth and Planetary Sciences, 1994, 22, 499-551.	11.0	686
3	Chemical Weathering, Atmospheric CO2, and Climate. Annual Review of Earth and Planetary Sciences, 2000, 28, 611-667.	11.0	679
4	Geochemical and climatic effects of increased marine organic carbon burial at the Cenomanian/Turonian boundary. Nature, 1988, 335, 714-717.	27.8	547
5	Late Miocene Atmospheric CO2 Concentrations and the Expansion of C4 Grasses. Science, 1999, 285, 876-879.	12.6	466
6	Massive release of hydrogen sulfide to the surface ocean and atmosphere during intervals of oceanic anoxia. Geology, 2005, 33, 397.	4.4	425
7	Miocene evolution of atmospheric carbon dioxide. Paleoceanography, 1999, 14, 273-292.	3.0	407
8	STABLE ISOTOPES OF OXYGEN AND CARBON AND THEIR APPLICATION TO SEDIMENTOLOGIC AND PALEOENVIRONMENTAL PROBLEMS. , 1983, , 1-1-1-151.		342
9	Two or four Neoproterozoic glaciations?. Geology, 1998, 26, 1059.	4.4	340
10	Geochemical evidence for suppression of pelagic marine productivity at the Cretaceous/Tertiary boundary. Nature, 1989, 337, 61-64.	27.8	321
11	Orbital time scale and new C-isotope record for Cenomanian-Turonian boundary stratotype. Geology, 2006, 34, 125.	4.4	307
12	Methane-rich Proterozoic atmosphere?. Geology, 2003, 31, 87.	4.4	255
13	Timing and Paleoceanography of Oceanic Dysoxia/Anoxia in the Late Barremian to Early Aptian (Early) Tj ETQq1 1 0.784314 rgBT /Ove	1.3	253
14	The sulfur isotopic composition of Neoproterozoic seawater sulfate: implications for a snowball Earth?. Earth and Planetary Science Letters, 2002, 203, 413-429.	4.4	240
15	Depletion of 13C in Cretaceous marine organic matter: Source, diagenetic, or environmental sigal?. Marine Geology, 1986, 70, 119-157.	2.1	225
16	Upper Cretaceousâ€“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.	3.3	208
17	SECULAR VARIATIONS IN THE PELAGIC REALM. , 1977, , 19-50.		207
18	Ocean stagnation and end-Permian anoxia. Geology, 2001, 29, 7.	4.4	194

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19	A Neogene seawater sulfur isotope age curve from calcareous pelagic microfossils. Earth and Planetary Science Letters, 1989, 94, 189-198.	4.4	191
20	Anomalous 13C enrichment in modern marine organic carbon. Nature, 1985, 315, 216-218.	27.8	190
21	Isotopic Evidence for Massive Oxidation of Organic Matter Following the Great Oxidation Event. Science, 2011, 334, 1694-1696.	12.6	190
22	Response of the Mid-Cretaceous global oceanic circulation to tectonic and CO2forcings. Paleoceanography, 2001, 16, 576-592.	3.0	171
23	Glass from the Cretaceous/Tertiary boundary in Haiti. Nature, 1991, 349, 482-487.	27.8	164
24	Carbon isotope fractionation by marine phytoplankton in culture: The effects of CO2concentration,pH, temperature, and species. Global Biogeochemical Cycles, 1994, 8, 91-102.	4.9	163
25	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.	4.4	159
26	Organic-matter production and preservation and evolution of anoxia in the Holocene Black Sea. Paleoceanography, 1998, 13, 395-411.	3.0	155
27	Anatomy and origin of a Cretaceous phosphorite-greensand giant, Egypt. Sedimentology, 1990, 37, 123-154.	3.1	152
28	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.	3.9	151
29	Sulfur isotopic evidence for chemocline upward excursions during the end-Permian mass extinction. Geochimica Et Cosmochimica Acta, 2006, 70, 5740-5752.	3.9	151
30	Isotopic evidence for an anomalously low oceanic sulfate concentration following end-Permian mass extinction. Earth and Planetary Science Letters, 2010, 300, 101-111.	4.4	145
31	Neoproterozoic sulfur isotopes, the evolution of microbial sulfur species, and the burial efficiency of sulfide as sedimentary pyrite. Geology, 2005, 33, 41.	4.4	144
32	Estuarine circulation in the Turonian Western Interior seaway of North America. Bulletin of the Geological Society of America, 1996, 108, 0941.	3.3	140
33	Nitrogen cycling during the Cretaceous, Cenomanian-Turonian Oceanic Anoxic Event II. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	135
34	Cretaceous rhythmic bedding sequences: a plausible link between orbital variations and climate. Earth and Planetary Science Letters, 1985, 72, 327-340.	4.4	134
35	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.	2.1	134
36	The Gulf of Suezâ€"northern Red Sea neogene rift: a quantitive basin analysis. Marine and Petroleum Geology, 1988, 5, 247-270.	3.3	130

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37	Toward an orbital chronology for the early Aptian Oceanic Anoxic Event (OAE1a, ~120ÂMa). Earth and Planetary Science Letters, 2008, 271, 88-100.	4.4	130
38	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.	1.5	128
39	Obliquity forcing of organic matter accumulation during Oceanic Anoxic Event 2. Paleoceanography, 2012, 27, .	3.0	122
40	Upper Cretaceousâ€“Paleocene magnetic stratigraphy at Gubbio, Italy I. Lithostratigraphy and sedimentology. Bulletin of the Geological Society of America, 1977, 88, 367.	3.3	121
41	Tectonic forcings of Maastrichtian ocean-climate evolution. Paleoceanography, 1999, 14, 103-117.	3.0	121
42	Widespread venting of methane-rich fluids in Late Cretaceous (Campanian) submarine springs (Tepee) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.4	119
43	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.	4.4	119
44	Carbon isotopic evidence for chemocline upward excursions during the end-Permian event. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 248, 73-81.	2.3	117
45	Sulfur cycling in a stratified euxinic lake with moderately high sulfate: Constraints from quadruple S isotopes. Geochimica Et Cosmochimica Acta, 2010, 74, 4953-4970.	3.9	110
46	Global Chemical Erosion during the Cenozoic: Weatherability Balances the Budgets. , 1997, , 399-426.		105
47	Modeling the Mutualistic Interactions between Tubeworms and Microbial Consortia. PLoS Biology, 2005, 3, e77.	5.6	102
48	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.	4.9	99
49	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.	1.5	98
50	Organic carbon accumulation and preservation in surface sediments on the Peru margin. Chemical Geology, 1998, 152, 273-286.	3.3	96
51	Late Middle Ordovician environmental change and extinction: Harbinger of the Late Ordovician or continuation of Cambrian patterns?. Geology, 1997, 25, 911.	4.4	95
52	Seasonal temperature-salinity changes and thermocline development in the mid-Atlantic Bight as recorded by the isotopic composition of bivalves. Geology, 1983, 11, 655.	4.4	92
53	Sedimentary and geochemical indicators of productivity and oxygen contents in modern and ancient basins: The Holocene Black Sea as the â€œtypeâ€•anoxic basin. Chemical Geology, 1985, 48, 325-354.	3.3	84
54	Shallow water redox conditions from the Permianâ€“Triassic boundary microbialite: The rare earth element and iodine geochemistry of carbonates from Turkey and South China. Chemical Geology, 2013, 351, 195-208.	3.3	78

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55	Middle Cretaceous reef collapse linked to ocean heat transport. Geology, 1996, 24, 376.	4.4	77
56	Dysoxic/anoxic episodes in the Aptian-Albian (Early Cretaceous). Geophysical Monograph Series, 1993, , 5-37.	0.1	75
57	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.	0.1	63
58	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.	2.3	63
59	Interspecies variation in stable isotopic signals of Maastrichtian planktonic foraminifera. Paleoceanography, 1995, 10, 123-135.	3.0	59
60	Sulfur diagenesis and partitioning in Holocene Peru shelf and upper slope sediments. Chemical Geology, 2000, 163, 219-234.	3.3	59
61	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.	3.0	58
62	Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. Geology, 1987, 15, 311.	4.4	57
63	Paleoceanographic eventsâ€”Recognition, resolution, and reconsideration. Reviews of Geophysics, 1979, 17, 1474-1494.	23.0	55
64	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.		54
65	Rhythmic bedding produced in Cretaceous pelagic carbonate environments: Sensitive recorders of climatic cycles. Paleoceanography, 1986, 1, 467-481.	3.0	53
66	Black Sea nitrogen cycling and the preservation of phytoplankton Î´¹⁵N signals during the Holocene. Global Biogeochemical Cycles, 2012, 26, .	4.9	53
67	Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records. Nature, 1982, 296, 432-434.	27.8	52
68	Variations in Miocene phytoplankton growth rates in the southwest Atlantic: Evidence for changes in ocean circulation. Paleoceanography, 2000, 15, 486-496.	3.0	49
69	The Maastrichtian record from Shatsky Rise (northwest Pacific): A tropical perspective on global ecological and oceanographic changes. Paleoceanography, 2005, 20, n/a-n/a.	3.0	48
70	Carbon isotopic composition and lattice-bound carbonate of Peru-Chile margin phosphorites. Marine Geology, 1988, 80, 287-307.	2.1	44
71	Late Paleocene Arctic Ocean shallow-marine temperatures from mollusc stable isotopes. Paleoceanography, 1996, 11, 241-249.	3.0	42
72	Smallâ€scale deformation structures and physical properties related to convergence in Japan Trench slope sediments. Tectonics, 1982, 1, 277-302.	2.8	39

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73	Fine-fraction carbonate stable isotopes as indicators of seasonal shallow mixed-layer paleohydrography. Marine Micropaleontology, 2002, 46, 317-342.	1.2	34
74	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.	3.9	34
75	Isotope analyses of molecular and total organic carbon from miocene sediments. Geochimica Et Cosmochimica Acta, 2000, 64, 37-49.	3.9	31
76	Deep water in the late Maastrichtian ocean. Paleoceanography, 2002, 17, 8-1-8-11.	3.0	29
77	Palaeoclimatology (Communication arising): Tropical temperatures in greenhouse episodes. Nature, 2002, 419, 897-898.	27.8	28
78	GEOCHEMICAL EXPRESSIONS OF CYCLICITY IN CRETACEOUS PELAGIC LIMESTONE SEQUENCES: NIOBRARA FORMATION, WESTERN INTERIOR SEAWAY. , 1998, , 227-255.		28
79	Bacterial production of anomalously high dissolved sulfate concentrations in Peru slope sediments: steady-state sulfur oxidation, or transient response to end of El NiÃ±o?. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 1829-1853.	1.4	27
80	Cooling in the late Cenozoic. Nature, 1993, 361, 123-124.	27.8	26
81	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.	1.8	25
82	Black Sea chemocline oscillations during the Holocene: molecular and isotopic studies of marginal sediments. Organic Geochemistry, 2000, 31, 1525-1531.	1.8	23
83	Subboreal aridity and scytonemin in the Holocene Black Sea. Organic Geochemistry, 2012, 49, 47-55.	1.8	21
84	Geochemical and paleoenvironmental variations across the Cretaceous/Tertiary boundary at Braggs, Alabama. Palaeogeography, Palaeoclimatology, Palaeoecology, 1989, 69, 245-266.	2.3	20
85	Interpreting the paleoenvironmental, paleoclimatic and life history records in mollusc shells. Geobios, 1984, 17, 333-339.	1.4	19
86	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.	4.4	17
87	Geodynamic, sedimentary and volcanic evolution of the Cape Bojador Continental Margin (NW Africa). Maurice Ewing Series, 1979, , 187-203.	0.1	16
88	Comparative Geochemical and Mineralogical Studies of Two Cyclic Transgressive Pelagic Limestone Units, Cretaceous Western Interior Basin, U.S.. , 1985, , 16-27.		16
89	The sulfur isotope composition of carbonate-associated sulfate in Mesoproterozoic to Neoproterozoic carbonates from Death Valley, California. , 2004, , .		15
90	Periphyton nutrient status in a temperate stream with mixed land-uses: implications for watershed nitrogen storage. Hydrobiologia, 2009, 623, 141-152.	2.0	14

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91	Intramolecular carbon isotopic analysis of acetic acid by direct injection of aqueous solution. Organic Geochemistry, 2009, 40, 195-200.	1.8	14
92	Nitrogen cycle dynamics in the Late Cretaceous Greenhouse. Earth and Planetary Science Letters, 2018, 481, 404-411.	4.4	14
93	CRETACEOUS WESTERN INTERIOR SEAWAY DRILLING PROJECT: AN OVERVIEW. , 1998, , 1-10.		14
94	The Cenomanian-Turonian boundary event: sedimentary, faunal and geochemical criteria developed from stratigraphic studies in NW-Germany. , 1986, , 345-351.		13
95	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.	2.3	13
96	Carbonate rocks deconstructed. Nature, 2009, 460, 698-699.	27.8	12
97	Unexpected occurrence and significance of zinc alkyl porphyrins in Cenomanianâ€“Turonian black shales of the Demerara Rise. Organic Geochemistry, 2008, 39, 1081-1087.	1.8	11
98	Correcting porewater concentration measurements from peepers: Application of a reverse tracer. Limnology and Oceanography: Methods, 2010, 8, 403-413.	2.0	11
99	Compound-specific Î´15N and chlorin preservation in surface sediments of the Peru Margin with implications for ancient bulk Î´15N records. Geochimica Et Cosmochimica Acta, 2015, 160, 306-318.	3.9	11
100	Chlorins in mid-Cretaceous black shales of the Demerara Rise: The oldest known occurrence. Organic Geochemistry, 2011, 42, 856-859.	1.8	9
101	Sedimentation across the Japan Trench off northern Honshu Island. Geological Society Special Publication, 1982, 10, 27-48.	1.3	8
102	Stratigraphy: Carbon isotope anomalies?. Nature, 1984, 310, 450-451.	27.8	5
103	STABLE ISOTOPIC STUDIES OF CENOMANIAN-TURONIAN PROXIMAL MARINE FAUNA FROM THE U.S. WESTERN INTERIOR SEAWAY. , 1998, , 201-225.		5
104	Early to Middle Miocene paleoceanography in the southern high latitudes off Tasmania. Geophysical Monograph Series, 2004, , 215-233.	0.1	4
105	ORGANIC GEOCHEMISTRY OF THE CRETACEOUS WESTERN INTERIOR SEAWAY: A TRANS-BASINAL EVALUATION. , 1998, , 173-188.		4
106	The diagenetic origin and depositional history of the Cherry Valley Member, Middle Devonian Marcellus Formation. Chemical Geology, 2020, 558, 119875.	3.3	3
107	An introduction to structures and stratigraphy in the proximal portion of the Middle Devonian Marcellus and Burket/Geneseo black shales in the Central Appalachian Valley and Ridge. , 2011, , 17-44.		3