

Michael A Arthur

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The diagenetic origin and depositional history of the Cherry Valley Member, Middle Devonian Marcellus Formation. <i>Chemical Geology</i> , 2020 , 558, 119875	4.2	1
102	Nitrogen cycle dynamics in the Late Cretaceous Greenhouse. <i>Earth and Planetary Science Letters</i> , 2018 , 481, 404-411	5.3	12
101	Compound-specific $\delta^{15}\text{N}$ and chlorin preservation in surface sediments of the Peru Margin with implications for ancient bulk $\delta^{15}\text{N}$ records. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 160, 306-318	5.5	8
100	Controls on the stratigraphic distribution and nitrogen isotopic composition of zinc, vanadyl and free base porphyrins through Oceanic Anoxic Event 2 at Demerara Rise. <i>Organic Geochemistry</i> , 2015 , 80, 60-71	3.1	19
99	Shallow water redox conditions from the Permian-Triassic boundary microbialite: The rare earth element and iodine geochemistry of carbonates from Turkey and South China. <i>Chemical Geology</i> , 2013 , 351, 195-208	4.2	67
98	Subboreal aridity and scytonemin in the Holocene Black Sea. <i>Organic Geochemistry</i> , 2012 , 49, 47-55	3.1	20
97	Black Sea nitrogen cycling and the preservation of phytoplankton $\delta^{15}\text{N}$ signals during the Holocene. <i>Global Biogeochemical Cycles</i> , 2012 , 26, n/a-n/a	5.9	38
96	Obliquity forcing of organic matter accumulation during Oceanic Anoxic Event 2. <i>Paleoceanography</i> , 2012 , 27, n/a-n/a		96
95	Chlorins in mid-Cretaceous black shales of the Demerara Rise: The oldest known occurrence. <i>Organic Geochemistry</i> , 2011 , 42, 856-859	3.1	8
94	Isotopic evidence for massive oxidation of organic matter following the great oxidation event. <i>Science</i> , 2011 , 334, 1694-6	33.3	141
93	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
92	Grain size of Cretaceous-Paleogene boundary sediments from Chicxulub to the open ocean: Implications for interpretation of the mass extinction event. <i>Geology</i> , 2010 , 38, 199-202	5	11
91	Sulfur cycling in a stratified euxinic lake with moderately high sulfate: Constraints from quadruple S isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 4953-4970	5.5	90
90	Isotopic evidence for an anomalously low oceanic sulfate concentration following end-Permian mass extinction. <i>Earth and Planetary Science Letters</i> , 2010 , 300, 101-111	5.3	117
89	Correcting porewater concentration measurements from peepers: Application of a reverse tracer. <i>Limnology and Oceanography: Methods</i> , 2010 , 8, 403-413	2.6	6
88	Periphyton nutrient status in a temperate stream with mixed land-uses: implications for watershed nitrogen storage. <i>Hydrobiologia</i> , 2009 , 623, 141-152	2.4	13
87	Intramolecular carbon isotopic analysis of acetic acid by direct injection of aqueous solution. <i>Organic Geochemistry</i> , 2009 , 40, 195-200	3.1	12

86	Unexpected occurrence and significance of zinc alkyl porphyrins in Cenomanian-Turonian black shales of the Demerara Rise. <i>Organic Geochemistry</i> , 2008 , 39, 1081-1087	3.1	9
85	Toward an orbital chronology for the early Aptian Oceanic Anoxic Event (OAE1a, ~120 Ma). <i>Earth and Planetary Science Letters</i> , 2008 , 271, 88-100	5.3	100
84	Modification of sediment geochemistry by the hydrocarbon seep tubeworm <i>Lamellibrachia luymesii</i> : A combined empirical and modeling approach. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 2298-2315	5.5	30
83	Nitrogen cycling during the Cretaceous, Cenomanian-Turonian Oceanic Anoxic Event II. <i>Geochemistry, Geophysics, Geosystems</i> , 2007 , 8, n/a-n/a	3.6	110
82	Carbon isotopic evidence for chemocline upward excursions during the end-Permian event. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007 , 248, 73-81	2.9	107
81	Orbital time scale and new C-isotope record for Cenomanian-Turonian boundary stratotype. <i>Geology</i> , 2006 , 34, 125	5	251
80	Sulfur cycling in the aftermath of a 635-Ma snowball glaciation: Evidence for a syn-glacial sulfidic deep ocean. <i>Earth and Planetary Science Letters</i> , 2006 , 245, 551-570	5.3	99
79	Sulfur isotopic evidence for chemocline upward excursions during the end-Permian mass extinction. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5740-5752	5.5	135
78	Organic carbon production and preservation in response to sea-level changes in the Turonian Carlile Formation, U.S. Western Interior Basin. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006 , 235, 223-244	2.9	7
77	Modeling the mutualistic interactions between tubeworms and microbial consortia. <i>PLoS Biology</i> , 2005 , 3, e77	9.7	83
76	The Maastrichtian record from Shatsky Rise (northwest Pacific): A tropical perspective on global ecological and oceanographic changes. <i>Paleoceanography</i> , 2005 , 20, n/a-n/a		41
75	Neoproterozoic sulfur isotopes, the evolution of microbial sulfur species, and the burial efficiency of sulfide as sedimentary pyrite. <i>Geology</i> , 2005 , 33, 41	5	116
74	Massive release of hydrogen sulfide to the surface ocean and atmosphere during intervals of oceanic anoxia. <i>Geology</i> , 2005 , 33, 397	5	365
73	Early to Middle Miocene Paleooceanography in the Southern High Latitudes off Tasmania. <i>Geophysical Monograph Series</i> , 2004 , 215-233	1.1	3
72	The sulfur isotope composition of carbonate-associated sulfate in Mesoproterozoic to Neoproterozoic carbonates from Death Valley, California 2004 ,		13
71	Methane-rich Proterozoic atmosphere?. <i>Geology</i> , 2003 , 31, 87	5	204
70	Fine-fraction carbonate stable isotopes as indicators of seasonal shallow mixed-layer paleohydrography. <i>Marine Micropaleontology</i> , 2002 , 46, 317-342	1.7	32
69	Palaeoclimatology: tropical temperatures in greenhouse episodes. <i>Nature</i> , 2002 , 419, 897-8; discussion 898	50.4	20

68	Deep water in the late Maastrichtian ocean. <i>Paleoceanography</i> , 2002 , 17, 8-1-8-11		25
67	The sulfur isotopic composition of Neoproterozoic seawater sulfate: implications for a snowball Earth?. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 413-429	5.3	197
66	Water mass characteristics in the Cenomanian US Western Interior seaway as indicated by stable isotopes of calcareous organisms. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2002 , 188, 189-213	2.9	52
65	Ocean stagnation and end-Permian anoxia. <i>Geology</i> , 2001 , 29, 7	5	157
64	Response of the Mid-Cretaceous global oceanic circulation to tectonic and CO ₂ forcings. <i>Paleoceanography</i> , 2001 , 16, 576-592		150
63	Variations in pyrite texture, sulfur isotope composition, and iron systematics in the Black Sea: evidence for Late Pleistocene to Holocene excursions of the $\delta^{34}\text{S}$ redox transition. <i>Geochimica Et Cosmochimica Acta</i> , 2001 , 65, 1399-1416	5.5	125
62	Black Sea chemocline oscillations during the Holocene: molecular and isotopic studies of marginal sediments. <i>Organic Geochemistry</i> , 2000 , 31, 1525-1531	3.1	21
61	Bacterial production of anomalously high dissolved sulfate concentrations in Peru slope sediments: steady-state sulfur oxidation, or transient response to end of El Niño?. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2000 , 47, 1829-1853	2.5	21
60	Sulfur diagenesis and partitioning in Holocene Peru shelf and upper slope sediments. <i>Chemical Geology</i> , 2000 , 163, 219-234	4.2	50
59	Isotope analyses of molecular and total organic carbon from miocene sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2000 , 64, 37-49	5.5	29
58	Variations in Miocene phytoplankton growth rates in the southwest Atlantic: Evidence for changes in ocean circulation. <i>Paleoceanography</i> , 2000 , 15, 486-496		41
57	Chemical Weathering, Atmospheric CO ₂ , and Climate. <i>Annual Review of Earth and Planetary Sciences</i> , 2000 , 28, 611-667	15.3	548
56	Late miocene atmospheric CO ₂ concentrations and the expansion of C(4) grasses. <i>Science</i> , 1999 , 285, 876-9	33.3	404
55	Interpreting carbon-isotope excursions: carbonates and organic matter. <i>Chemical Geology</i> , 1999 , 161, 181-198	4.2	716
54	Tectonic forcings of Maastrichtian ocean-climate evolution. <i>Paleoceanography</i> , 1999 , 14, 103-117		89
53	Miocene evolution of atmospheric carbon dioxide. <i>Paleoceanography</i> , 1999 , 14, 273-292		342
52	Organic carbon accumulation and preservation in surface sediments on the Peru margin. <i>Chemical Geology</i> , 1998 , 152, 273-286	4.2	76
51	Organic-matter production and preservation and evolution of anoxia in the Holocene Black Sea. <i>Paleoceanography</i> , 1998 , 13, 395-411		122

50	Two or four Neoproterozoic glaciations?. <i>Geology</i> , 1998 , 26, 1059	5	283
49	CRETACEOUS WESTERN INTERIOR SEAWAY DRILLING PROJECT: AN OVERVIEW 1998 , 1-10		6
48	ORGANIC GEOCHEMISTRY OF THE CRETACEOUS WESTERN INTERIOR SEAWAY: A TRANS-BASINAL EVALUATION 1998 , 173-188		3
47	GEOCHEMICAL EXPRESSIONS OF CYCLICITY IN CRETACEOUS PELAGIC LIMESTONE SEQUENCES: NIOBRARA FORMATION, WESTERN INTERIOR SEAWAY 1998 , 227-255		14
46	Global Chemical Erosion during the Cenozoic: Weatherability Balances the Budgets 1997 , 399-426		75
45	Late Middle Ordovician environmental change and extinction: Harbinger of the Late Ordovician or continuation of Cambrian patterns?. <i>Geology</i> , 1997 , 25, 911	5	75
44	Widespread venting of methane-rich fluids in Late Cretaceous (Campanian) submarine springs (Tepee Buttes), Western Interior seaway, U.S.A.. <i>Geology</i> , 1996 , 24, 799	5	98
43	Late Paleocene Arctic Ocean shallow-marine temperatures from mollusc stable isotopes. <i>Paleoceanography</i> , 1996 , 11, 241-249		35
42	Middle Cretaceous reef collapse linked to ocean heat transport. <i>Geology</i> , 1996 , 24, 376	5	63
41	Estuarine circulation in the Turonian Western Interior seaway of North America. <i>Bulletin of the Geological Society of America</i> , 1996 , 108, 0941	3.9	100
40	Interspecies variation in stable isotopic signals of Maastrichtian planktonic foraminifera. <i>Paleoceanography</i> , 1995 , 10, 123-135		53
39	Carbon isotope fractionation by marine phytoplankton in culture: The effects of CO ₂ concentration, pH, temperature, and species. <i>Global Biogeochemical Cycles</i> , 1994 , 8, 91-102	5.9	132
38	Varve calibrated records of carbonate and organic carbon accumulation over the last 2000 years in the Black Sea. <i>Global Biogeochemical Cycles</i> , 1994 , 8, 195-217	5.9	88
37	Marine Black Shales: Depositional Mechanisms and Environments of Ancient Deposits. <i>Annual Review of Earth and Planetary Sciences</i> , 1994 , 22, 499-551	15.3	516
36	Timing and Paleoceanography of Oceanic Dysoxia/Anoxia in the Late Barremian to Early Aptian (Early Cretaceous). <i>Palaios</i> , 1994 , 9, 335	1.6	210
35	Dysoxic/anoxic episodes in the Aptian-Albian (Early Cretaceous). <i>Geophysical Monograph Series</i> , 1993 , 5-37	1.1	43
34	Cooling in the late Cenozoic. <i>Nature</i> , 1993 , 361, 123-124	50.4	26
33	Glass from the Cretaceous/Tertiary boundary in Haiti. <i>Nature</i> , 1991 , 349, 482-487	50.4	146

32	Sediment deposition in the Late Holocene abyssal Black Sea with climatic and chronological implications. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991 , 38, S1211-S1235		84
31	Anatomy and origin of a Cretaceous phosphorite-greensand giant, Egypt. <i>Sedimentology</i> , 1990 , 37, 123-154		130
30	Geochemical evidence for suppression of pelagic marine productivity at the Cretaceous/Tertiary boundary. <i>Nature</i> , 1989 , 337, 61-64	50.4	276
29	Geochemical and paleoenvironmental variations across the Cretaceous/Tertiary boundary at Braggs, Alabama. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1989 , 69, 245-266	2.9	18
28	A Neogene seawater sulfur isotope age curve from calcareous pelagic microfossils. <i>Earth and Planetary Science Letters</i> , 1989 , 94, 189-198	5.3	163
27	Geochemical and climatic effects of increased marine organic carbon burial at the Cenomanian/Turonian boundary. <i>Nature</i> , 1988 , 335, 714-717	50.4	445
26	Petrology and major element geochemistry of Peru margin phosphorites and associated diagenetic minerals: Authigenesis in modern organic-rich sediments. <i>Marine Geology</i> , 1988 , 80, 231-267	3.3	111
25	Carbon isotopic composition and lattice-bound carbonate of Peru-Chile margin phosphorites. <i>Marine Geology</i> , 1988 , 80, 287-307	3.3	39
24	The Gulf of Suez-Northern Red Sea neogene rift: a quantitative basin analysis. <i>Marine and Petroleum Geology</i> , 1988 , 5, 247-270	4.7	114
23	Biotic, geochemical, and paleomagnetic changes across the Cretaceous/Tertiary boundary at Braggs, Alabama. <i>Geology</i> , 1987 , 15, 311	5	50
22	$^{15}\text{N}/^{14}\text{N}$ variations in Cretaceous Atlantic sedimentary sequences: implication for past changes in marine nitrogen biogeochemistry. <i>Earth and Planetary Science Letters</i> , 1987 , 82, 269-279	5.3	138
21	Depletion of ^{13}C in Cretaceous marine organic matter: Source, diagenetic, or environmental signal?. <i>Marine Geology</i> , 1986 , 70, 119-157	3.3	191
20	The Cenomanian-Turonian boundary event: sedimentary, faunal and geochemical criteria developed from stratigraphic studies in NW-Germany 1986 , 345-351		12
19	The Cretaceous/Tertiary Boundary Event in the North Pacific: Planktonic foraminiferal results from Deep Sea Drilling Project Site 577, Shatsky Rise. <i>Paleoceanography</i> , 1986 , 1, 97-117		48
18	Rhythmic bedding produced in Cretaceous pelagic carbonate environments: Sensitive recorders of climatic cycles. <i>Paleoceanography</i> , 1986 , 1, 467-481		44
17	Anomalous ^{13}C enrichment in modern marine organic carbon. <i>Nature</i> , 1985 , 315, 216-218	50.4	161
16	Cretaceous rhythmic bedding sequences: a plausible link between orbital variations and climate. <i>Earth and Planetary Science Letters</i> , 1985 , 72, 327-340	5.3	118
15	Sedimentary and geochemical indicators of productivity and oxygen contents in modern and ancient basins: The Holocene Black Sea as the type anoxic basin. <i>Chemical Geology</i> , 1985 , 48, 325-354	4.2	75

14	Interpreting the paleoenvironmental, paleoclimatic and life history records in mollusc shells. <i>Geobios</i> , 1984 , 17, 333-339	1.5	14
13	Growth history and ecology of the Atlantic surf clam, <i>Spisula solidissima</i> (Dillwyn), as revealed by stable isotopes and annual shell increments. <i>Journal of Experimental Marine Biology and Ecology</i> , 1983 , 73, 225-242	2.1	115
12	Seasonal temperature-salinity changes and thermocline development in the mid-Atlantic Bight as recorded by the isotopic composition of bivalves. <i>Geology</i> , 1983 , 11, 655	5	77
11	STABLE ISOTOPES OF OXYGEN AND CARBON AND THEIR APPLICATION TO SEDIMENTOLOGIC AND PALEOENVIRONMENTAL PROBLEMS 1983 , 1-1-1-151		203
10	Sedimentation across the Japan Trench off northern Honshu Island. <i>Geological Society Special Publication</i> , 1982 , 10, 27-48	1.7	5
9	Small-scale deformation structures and physical properties related to convergence in Japan Trench slope sediments. <i>Tectonics</i> , 1982 , 1, 277-302	4.3	37
8	Seasonality and mean annual sea surface temperatures from isotopic and sclerochronological records. <i>Nature</i> , 1982 , 296, 432-434	50.4	46
7	Paleoceanographic events—Recognition, resolution, and reconsideration. <i>Reviews of Geophysics</i> , 1979 , 17, 1474	23.1	47
6	Carbonaceous sediments in the North and South Atlantic: The role of salinity in stable stratification of early Cretaceous basins. <i>Maurice Ewing Series</i> , 1979 , 375-401		55
5	Geodynamic, sedimentary and volcanic evolution of the Cape Bojador Continental Margin (NW Africa). <i>Maurice Ewing Series</i> , 1979 , 187-203		15
4	Upper Cretaceous-Paleocene magnetic stratigraphy at Gubbio, Italy I. Lithostratigraphy and sedimentology. <i>Bulletin of the Geological Society of America</i> , 1977 , 88, 367	3.9	102
3	Upper Cretaceous-Paleocene magnetic stratigraphy at Gubbio, Italy V. Type section for the Late Cretaceous-Paleocene geomagnetic reversal time scale. <i>Bulletin of the Geological Society of America</i> , 1977 , 88, 383	3.9	168
2	SECULAR VARIATIONS IN THE PELAGIC REALM 1977 , 19-50		135
1	Comparative Geochemical and Mineralogical Studies of Two Cyclic Transgressive Pelagic Limestone Units, Cretaceous Western Interior Basin, U.S. 16-27		9