

Mervyn Greaves

List of Publications by Year in descending order

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59
papers

6,271
citations

147801

31
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

5004
citing authors

#	ARTICLE	IF	CITATIONS
1	The rare earth elements in seawater. <i>Nature</i> , 1982, 296, 214-219.	27.8	1,209
2	A study of cleaning procedures used for foraminiferal Mg/Ca paleothermometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	751
3	Evolution of Ocean Temperature and Ice Volume Through the Mid-Pleistocene Climate Transition. <i>Science</i> , 2012, 337, 704-709.	12.6	630
4	Rare earth element geochemistry of oceanic ferromanganese nodules and associated sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 513-528.	3.9	437
5	An intensity ratio calibration method for the accurate determination of Mg/Ca and Sr/Ca of marine carbonates by ICP-AES. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, n/a-n/a.	2.5	263
6	The behaviour of the rare earth elements during mixing of river and sea waters. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 143-149.	3.9	200
7	Interlaboratory comparison study of Mg/Ca and Sr/Ca measurements in planktonic foraminifera for paleoceanographic research. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	170
8	Rare earth elements in submarine hydrothermal fluids and plumes from the Mid-Atlantic Ridge. <i>Marine Chemistry</i> , 1994, 46, 217-235.	2.3	169
9	Interlaboratory comparison study of calibration standards for foraminiferal Mg/Ca thermometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	168
10	Dissolved rare earth elements in the Southern Ocean: Cerium oxidation and the influence of hydrography. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 1551-1558.	3.9	162
11	Negative cerium anomalies in the rare earth element patterns of oceanic ferromanganese nodules. <i>Earth and Planetary Science Letters</i> , 1981, 55, 163-170.	4.4	142
12	Hydrothermal manganese plumes in the Mid-Atlantic Ridge rift valley. <i>Nature</i> , 1985, 314, 727-731.	27.8	142
13	Determination of the rare earth elements in natural waters by isotope-dilution mass spectrometry. <i>Analytica Chimica Acta</i> , 1989, 218, 265-280.	5.4	134
14	Aeolian sources of rare earth elements to the Western Pacific Ocean. <i>Marine Chemistry</i> , 1999, 68, 31-38.	2.3	130
15	Rare earth element mobilization from marine atmospheric dust into seawater. <i>Marine Chemistry</i> , 1994, 46, 255-260.	2.3	117
16	A record of bottom water temperature and seawater $\delta^{18}O$ for the Southern Ocean over the past 440kyr based on Mg/Ca of benthic foraminiferal <i>Uvigerina</i> spp.. <i>Quaternary Science Reviews</i> , 2010, 29, 160-169.	3.0	116
17	Determination of multiple element/calcium ratios in foraminiferal calcite by quadrupole ICP-MS. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	113
18	West Antarctic Ice Sheet retreat driven by Holocene warm water incursions. <i>Nature</i> , 2017, 547, 43-48.	27.8	109

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19	Manganese geochemistry near high-temperature vents in the Mid-Atlantic Ridge rift valley. <i>Earth and Planetary Science Letters</i> , 1986, 80, 230-240.	4.4	88
20	Effect of Carbonate Chemistry Alteration on the Early Embryonic Development of the Pacific Oyster (<i>Crassostrea gigas</i>). <i>PLoS ONE</i> , 2011, 6, e23010.	2.5	86
21	Preferential dissolution of benthic foraminiferal calcite during laboratory reductive cleaning. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	82
22	Strontium isotope geochemistry of Icelandic geothermal systems and implications for sea water chemistry. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 2201-2212.	3.9	77
23	Determination of ^{111}B by HR-ICP-MS from mass limited samples: Application to natural carbonates and water samples. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 531-552.	3.9	54
24	Accuracy, standardization, and interlaboratory calibration standards for foraminiferal Mg/Ca thermometry. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, .	2.5	49
25	Rare Earth Elements in early-diagenetic foraminifer $\delta^{13}\text{C}$ coatings TM : Pore-water controls and potential palaeoceanographic applications. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 118-132.	3.9	46
26	Sea surface temperatures of the western Arabian Sea during the last deglaciation. <i>Paleoceanography</i> , 2007, 22, .	3.0	43
27	Calcification response of a key phytoplankton family to millennial-scale environmental change. <i>Scientific Reports</i> , 2016, 6, 34263.	3.3	43
28	Multi-proxy reconstruction of surface water pCO ₂ in the northern Arabian Sea since 29ka. <i>Earth and Planetary Science Letters</i> , 2010, 295, 49-57.	4.4	40
29	Coupled Mg/Ca and clumped isotope analyses of foraminifera provide consistent water temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 236, 283-296.	3.9	40
30	Responses of the <i>Emiliania huxleyi</i> Proteome to Ocean Acidification. <i>PLoS ONE</i> , 2013, 8, e61868.	2.5	37
31	The chronology of Funafuti Atoll: revisiting an old friend. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002, 458, 2289-2306.	2.1	36
32	Pliocene-Pleistocene evolution of sea surface and intermediate water temperatures from the southwest Pacific. <i>Paleoceanography</i> , 2016, 31, 895-913.	3.0	35
33	Authigenic uranium in foraminiferal coatings: A proxy for ocean redox chemistry. <i>Paleoceanography</i> , 2012, 27, .	3.0	29
34	Influence of surface ocean density on planktonic foraminifera calcification. <i>Scientific Reports</i> , 2019, 9, 533.	3.3	29
35	Determination of B/Ca of natural carbonates by HR-ICP-MS. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 1617-1628.	2.5	28
36	Western Arabian Sea SST during the penultimate interglacial: A comparison of $\delta^{18}\text{O}$ and Mg/Ca paleothermometry. <i>Paleoceanography</i> , 2009, 24, .	3.0	25

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37	An evaluation of controls on planktonic foraminiferal Sr/Ca: Comparison of water column and core-top data from a North Atlantic transect. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	22
38	A novel application of wet oxidation to retrieve carbonates from large organic-rich samples for ocean-climate research. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	22
39	Antarctic Intermediate Water properties since 400 ka recorded in infaunal (<i>Uvigerina peregrina</i>) and epifaunal (<i>Planulina wuellerstorfi</i>) benthic foraminifera. <i>Earth and Planetary Science Letters</i> , 2015, 428, 193-203.	4.4	22
40	Determination of the Mg/Mn ratio in foraminiferal coatings: An approach to correct Mg/Ca temperatures for Mn-rich contaminant phases. <i>Earth and Planetary Science Letters</i> , 2017, 457, 335-347.	4.4	22
41	An experimental evaluation of cleaning methods for fossil ostracod Mg/Ca and Sr/Ca determination. <i>Journal of Paleolimnology</i> , 2006, 36, 211-218.	1.6	18
42	A core-top study of dissolution effect on B/Ca in <i>Globigerinoides sacculifer</i> from the tropical Atlantic: Potential bias for paleo-reconstruction of seawater carbonate chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1053-1068.	2.5	15
43	Ostracod Mg/Sr/Ca and ⁸⁷ Sr/ ⁸⁶ Sr geochemistry from Tibetan lake sediments: Implications for early to mid-Pleistocene Indian monsoon and catchment weathering. <i>Boreas</i> , 2011, 40, 320-331.	2.4	13
44	Southern Ocean convection amplified past Antarctic warming and atmospheric CO ₂ rise during Heinrich Stadial 4. <i>Communications Earth & Environment</i> , 2020, 1, .	6.8	13
45	Deglacial bottom water warming intensified Arctic methane seepage in the NW Barents Sea. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	13
46	Sr partitioning in the benthic foraminifera <i>Ammonia aomoriensis</i> and <i>Amphistegina lessonii</i> . <i>Chemical Geology</i> , 2016, 440, 306-312.	3.3	12
47	Millennial-Scale Changes in Bottom Water Temperature and Water Mass Exchange Through the Fram Strait 79°N, 63°E 13 ka. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2020PA004061.	2.9	12
48	Li partitioning in the benthic foraminifera <i>Amphistegina lessonii</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4275-4279.	2.5	11
49	X-ray tomographic data of planktonic foraminifera species <i>Globigerina bulloides</i> from the Eastern Tropical Atlantic across Termination II. <i>GigaByte</i> , 0, 2020, 1-10.	0.0	7
50	Evidence of Stable Foraminifera Biomineralization during the Last Two Climate Cycles in the Tropical Atlantic Ocean. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 737.	2.6	6
51	Li Partitioning Into Coccoliths of <i>Emiliania huxleyi</i> : Evaluating the General Role of "Vital Effects" in Explaining Element Partitioning in Biogenic Carbonates. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009129.	2.5	6
52	The Carbon-Sulfur Link in the Remineralization of Organic Carbon in Surface Sediments. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
53	Palaeoceanography of the Japan Sea Across the Mid-Pleistocene Transition: Insights From IODP Exp. 346, Site U1427. <i>Paleoceanography and Paleoclimatology</i> , 2022, 37, .	2.9	5
54	Variability in the Concentration of Lithium in the Indo-Pacific Ocean. <i>Global Biogeochemical Cycles</i> , 2022, 36, .	4.9	5

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55	Deep Ocean Storage of Heat and CO ₂ in the Fram Strait, Arctic Ocean During the Last Glacial Period. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004216.	2.9	4
56	Coupled evolution of stable carbon isotopes between the Southern Ocean and the atmosphere over the last 260 ka. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116215.	4.4	3
57	Mg/Ca-Temperature Calibration of Polar Benthic foraminifera species for reconstruction of bottom water temperatures on the Antarctic shelf. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 283, 54-66.	3.9	2
58	Brent Spar or Broken Spur?. <i>Nature</i> , 1995, 376, 208-208.	27.8	1
59	Physiological responses of coccolithophores to abrupt exposure of naturally low pH deep seawater. <i>PLoS ONE</i> , 2017, 12, e0181713.	2.5	1