

Allan R Chivas

List of Publications by Year in descending order

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89
papers

5,440
citations

81900

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82547

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5148
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#	ARTICLE	IF	CITATIONS
1	A high-resolution Sr/Ca and $\delta^{18}\text{O}$ coral record from the Great Barrier Reef, Australia, and the 1982–1983 El Niño. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2747-2754.	3.9	291
2	Coprecipitation and isotopic fractionation of boron in modern biogenic carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2901-2910.	3.9	256
3	Oxygen isotope composition of the bone phosphate of Australian kangaroos: Potential as a palaeoenvironmental recorder. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2603-2609.	3.9	243
4	Boron removal by reverse osmosis membranes in seawater desalination applications. <i>Separation and Purification Technology</i> , 2010, 75, 87-101.	7.9	234
5	High-resolution isotopic records from corals using ocean temperature and mass-spawning chronometers. <i>Earth and Planetary Science Letters</i> , 1994, 121, 549-558.	4.4	205
6	Strontium content of ostracods indicates lacustrine palaeosalinity. <i>Nature</i> , 1985, 316, 251-253.	27.8	199
7	A 16-Ma record of paleodiet using carbon and oxygen isotopes in fossil teeth from Pakistan. <i>Chemical Geology: Isotope Geoscience Section</i> , 1992, 94, 183-192.	0.6	192
8	Treatment of RO brine from CSG produced water by spiral-wound air gap membrane distillation – A pilot study. <i>Desalination</i> , 2015, 366, 121-129.	8.2	192
9	Distribution and sources of organic carbon, nitrogen and their isotopic signatures in sediments from the Ayeyarwady (Irrawaddy) continental shelf, northern Andaman Sea. <i>Marine Chemistry</i> , 2008, 111, 137-150.	2.3	190
10	A 16-Ma record of paleodiet using carbon and oxygen isotopes in fossil teeth from Pakistan. <i>Chemical Geology</i> , 1992, 94, 183-192.	3.3	162
11	Sea-level and environmental changes since the last interglacial in the Gulf of Carpentaria, Australia: an overview. <i>Quaternary International</i> , 2001, 83-85, 19-46.	1.5	149
12	Boron isotope geochemistry as a tracer for the evolution of brines and associated hot springs from the Dead Sea, Israel. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 1689-1695.	3.9	139
13	Coral Record of Equatorial Sea-Surface Temperatures During the Penultimate Deglaciation at Huon Peninsula. <i>Science</i> , 1999, 283, 202-204.	12.6	131
14	Boron isotope geochemistry of Australian salt lakes. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 2591-2606.	3.9	129
15	Coupling effects of feed solution pH and ionic strength on the rejection of boron by NF/RO membranes. <i>Chemical Engineering Journal</i> , 2011, 168, 700-706.	12.7	124
16	Uptake of Mg and Sr in the euryhaline ostracod <i>Cyprideis</i> determined from in vitro experiments. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1999, 148, 105-116.	2.3	116
17	Effects of membrane fouling and scaling on boron rejection by nanofiltration and reverse osmosis membranes. <i>Desalination</i> , 2011, 279, 269-277.	8.2	103
18	Stable-isotope geochronology of the Australian regolith. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 3239-3256.	3.9	101

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19	Ostracod shell chemistry: A new palaeoenvironmental indicator applied to a regressive/transgressive record from the gulf of Carpentaria, Australia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1988, 66, 231-241.	2.3	95
20	Sedimentological and stable-isotope evolution of lakes in the Vestfold Hills, Antarctica. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1991, 84, 109-130.	2.3	94
21	Radiocarbon evidence for the timing and rate of Island development, beach-rock formation and phosphatization at Lady Elliot Island, Queensland, Australia. <i>Marine Geology</i> , 1986, 69, 273-287.	2.1	93
22	Carbon isotope fractionation in wood during carbonization. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 960-964.	3.9	92
23	Liquid carbon dioxide of magmatic origin and its role in volcanic eruptions. <i>Nature</i> , 1987, 326, 587-589.	27.8	82
24	The sedimentary record of palaeoenvironments and sea-level change in the Gulf of Carpentaria, Australia, through the last glacial cycle. <i>Quaternary International</i> , 2008, 183, 3-22.	1.5	73
25	Geochemical evidence for magmatic fluids in porphyry copper mineralization. <i>Contributions To Mineralogy and Petrology</i> , 1982, 78, 389-403.	3.1	72
26	Oxygen isotope dating of the Australian regolith. <i>Nature</i> , 1988, 331, 513-516.	27.8	67
27	Molecular biomarker evidence of origins and transport of organic matter in sediments of the Pearl River estuary and adjacent South China Sea. <i>Applied Geochemistry</i> , 2009, 24, 1666-1676.	3.0	67
28	Stable-isotope evidence for low-temperature kaolinitic weathering and post-formational hydrogen-isotope exchange in permian kaolinites. <i>Chemical Geology: Isotope Geoscience Section</i> , 1988, 72, 249-265.	0.6	65
29	Coupled Stable-Isotope and Trace-Element Measurements of Lacustrine Carbonates as Paleoclimatic Indicators. <i>Geophysical Monograph Series</i> , 0, , 113-121.	0.1	58
30	Increased eutrophication offshore Hong Kong, China during the past 75 years: Evidence from high-resolution sedimentary records. <i>Marine Chemistry</i> , 2008, 110, 7-17.	2.3	52
31	Direct determination of boron and chlorine isotopic compositions in geological materials by negative thermal-ionization mass spectrometry. <i>Chemical Geology: Isotope Geoscience Section</i> , 1989, 79, 333-343.	0.6	50
32	The role of charophytes (Charales) in past and present environments: An overview. <i>Aquatic Botany</i> , 2015, 120, 2-6.	1.6	50
33	Paleoenvironment of the Messinian Mediterranean "Lago Mare" from Strontium and Magnesium in Ostracode Shells. <i>Palaaios</i> , 1988, 3, 352.	1.3	49
34	The amino acid and stable isotope biogeochemistry of elephant bird (<i>Aepyornis</i>) eggshells from southern Madagascar. <i>Quaternary Science Reviews</i> , 2006, 25, 2343-2356.	3.0	49
35	Response of deep-sea benthic foraminifera to Late Quaternary climate changes, southeast Indian Ocean, offshore Western Australia. <i>Marine Micropaleontology</i> , 1994, 23, 185-229.	1.2	47
36	Ostracod shell chemistry – overview. <i>Geophysical Monograph Series</i> , 2002, , 185-204.	0.1	47

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37	Paper II - Dirt, dates and DNA: OSL and radiocarbon chronologies of perennially frozen sediments in Siberia, and their implications for sedimentary ancient DNA studies. <i>Boreas</i> , 2011, 40, 417-445.	2.4	47
38	Timing coral-based climatic histories using ^{13}C enrichments driven by synchronized spawning. <i>Geology</i> , 1996, 24, 1009.	4.4	45
39	New estimates for salinity changes in the Western Pacific Warm Pool during the Last Glacial Maximum: Oxygen-isotope evidence. <i>Marine Micropaleontology</i> , 1997, 32, 311-340.	1.2	45
40	Restricted terrestrial carbon input to the continental shelf during Cyclone Winifred: implications for terrestrial runoff to the Great Barrier Reef Province. <i>Coral Reefs</i> , 1987, 6, 113-119.	2.2	41
41	Palaeoenvironmental change in the Gulf of Carpentaria (Australia) since the last interglacial based on Ostracoda. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 246, 163-187.	2.3	41
42	Non-marine evaporites with both inherited marine and continental signatures: The Gulf of Carpentaria, Australia, at $\sim 70\text{ka}$. <i>Sedimentary Geology</i> , 2007, 201, 267-285.	2.1	40
43	An isotopic study of surficial alunite in Australia: 1. Hydrogen and sulphur isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 3223-3237.	3.9	39
44	Trace elements in marine ostracodes. <i>Geophysical Monograph Series</i> , 2002, , 205-225.	0.1	37
45	Prompt transgression and gradual salinisation of the Black Sea during the early Holocene constrained by amino acid racemization and radiocarbon dating. <i>Quaternary Science Reviews</i> , 2011, 30, 3769-3790.	3.0	36
46	A southern Indian Middle Palaeolithic occupation surface sealed by the 74ka Toba eruption: Further evidence from Jwalapuram Locality 22. <i>Quaternary International</i> , 2012, 258, 148-164.	1.5	36
47	A stable-isotope study of lateritic bauxites. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 1411-1420.	3.9	35
48	Paleoenvironmental reconstruction of marginal marine environments from combined paleoecological and geochemical analyses on ostracods. <i>Geophysical Monograph Series</i> , 2002, , 227-247.	0.1	33
49	An isotopic study of surficial alunite in Australia 2. Potassium-argon geochronology. <i>Chemical Geology: Isotope Geoscience Section</i> , 1990, 80, 133-145.	0.6	32
50	Quaternary and extant euryhaline Lamprothamnium Groves (Charales) from Australia: Gyrogonite morphology and paleolimnological significance. <i>Journal of Paleolimnology</i> , 2004, 31, 321-341.	1.6	32
51	Ostracod faunas as palaeoenvironmental indicators in marginal marine environments. <i>Geophysical Monograph Series</i> , 2002, , 135-149.	0.1	31
52	Surface features of sand grains from the Australian Continental Dunefield. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1995, 113, 119-132.	2.3	30
53	Enhanced boron rejection by NF/RO membranes by complexation with polyols: Measurement and mechanisms. <i>Desalination</i> , 2013, 310, 115-121.	8.2	29
54	Cosmogenic ^3He and ^{21}Ne surface exposure dating of young basalts from Southern Mendoza, Argentina. <i>Quaternary Geochronology</i> , 2014, 19, 76-86.	1.4	25

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55	Terrestrial organic carbon in marine sediment: A preliminary balance for a mangrove environment derived from ^{13}C . <i>Chemical Geology: Isotope Geoscience Section</i> , 1985, 52, 379-390.	0.6	24
56	Nonbiodegraded aromatic condensate associated with volcanic supercritical carbon dioxide, Otway Basin: Implications for primary migration from terrestrial organic matter. <i>Organic Geochemistry</i> , 1992, 18, 611-627.	1.8	24
57	Ostracod calcite records the $^{18}\text{O}/^{16}\text{O}$ ratio of the bicarbonate and carbonate ions in water. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 214, 30-50.	3.9	24
58	Uplift and submarine formation of some Melanesian porphyry copper deposits: Stable isotope evidence. <i>Earth and Planetary Science Letters</i> , 1984, 68, 326-334.	4.4	22
59	Oxygen-isotope fractionation in gibbsite: Synthesis experiments versus natural samples. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5267-5277.	3.9	22
60	Oxygen isotopes in western Australian coral reveal Pinatubo aerosol-induced cooling in the Western Pacific Warm Pool. <i>Geophysical Research Letters</i> , 1995, 22, 1069-1072.	4.0	21
61	Effects of chemical preservation on flux and solute rejection by reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2014, 472, 202-209.	8.2	21
62	Isotopic reconstruction of Proboscidean habitats and diets on Java since the Early Pleistocene: Implications for adaptation and extinction. <i>Quaternary Science Reviews</i> , 2020, 228, 106007.	3.0	20
63	Boron as a Surrogate for NH_4^+ -Nitrosodimethylamine Rejection by Reverse Osmosis Membranes in Potable Water Reuse Applications. <i>Environmental Science & Technology</i> , 2013, 47, 6425-6430.	10.0	18
64	Geochemical variations in the Quaternary Andean back-arc volcanism, southern Mendoza, Argentina. <i>Lithos</i> , 2014, 208-209, 251-264.	1.4	18
65	Phase separation and fluid mixing revealed by trace element signatures in pyrite from porphyry systems. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 329, 185-205.	3.9	18
66	Millennium-scale records of benthic foraminiferal communities from the central Great Barrier Reef reveal spatial differences and temporal consistency. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2013, 374, 52-61.	2.3	16
67	Sediment residence times in catchments draining to the Gulf of Carpentaria, northern Australia, inferred by uranium comminution dating. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 264-291.	3.9	16
68	Ecological change in fragile floodplain wetland ecosystems, natural vs human influence: The Macquarie Marshes of eastern Australia. <i>Aquatic Botany</i> , 2015, 120, 39-50.	1.6	15
69	Spatial and temporal variation of organic carbon in the northern South China Sea revealed by sedimentary records. <i>Quaternary International</i> , 2009, 206, 46-51.	1.5	12
70	Mid-Holocene age obtained for nested diamond pattern petroglyph in the Billasurgam Cave complex, Kurnool District, southern India. <i>Journal of Archaeological Science</i> , 2013, 40, 1787-1796.	2.4	10
71	Climate changes in the Lake Titicaca area: Evidence from ostracod ecology. <i>Geophysical Monograph Series</i> , 2002, , 151-165.	0.1	9
72	Chapter 1 An overview of the continental shelves of the world. <i>Geological Society Memoir</i> , 2014, 41, 1-5.	1.7	9

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73	Late Quaternary marginal marine palaeoenvironments of northern Australia as inferred from cluster analysis of coccolith assemblages. <i>Marine Micropaleontology</i> , 2007, 65, 213-231.	1.2	8
74	Organic matter sources, transport, degradation and preservation on a narrow rifted continental margin: Shoalhaven, southeast Australia. <i>Organic Geochemistry</i> , 2017, 112, 75-92.	1.8	8
75	A MODERN ANALOGUE FOR TECTONIC, EUSTATIC, AND CLIMATIC PROCESSES IN CRATONIC BASINS: GULF OF CARPENTARIA, NORTHERN AUSTRALIA. , 2003, , 193-205.		8
76	Reply to Comment by C.-H. Chen, K.-K. Liu, and Y.-N. Shieh on "A stable-isotope study of lateritic bauxites". <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1485-1486.	3.9	7
77	Lead isotope variability of fine-grained river sediments in Tibetan Plateau water catchments: Implications for geochemical provinces and crustal evolution. <i>Lithos</i> , 2014, 190-191, 13-26.	1.4	7
78	Quaternary volcanic evolution in the continental back-arc of southern Mendoza, Argentina. <i>Journal of South American Earth Sciences</i> , 2018, 84, 88-103.	1.4	7
79	Geochronological, morphometric and geochemical constraints on the Pampas Onduladas long basaltic flow (Payán Matrón Volcanic Field, Mendoza, Argentina). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 289, 114-129.	2.1	6
80	Distribution of ostracods in west-central Argentina related to host-water chemistry and climate: implications for paleolimnology. <i>Journal of Paleolimnology</i> , 2017, 58, 101-117.	1.6	6
81	Oxygen-isotope dating the Yilgarn regolith. <i>Geological Society Special Publication</i> , 2010, 346, 309-320.	1.3	5
82	A single origin for the limnetic "euryhaline taxa in the <sc>C</sc>orbulidae (<sc>B</sc>ivalvia). <i>Zoologica Scripta</i> , 2013, 42, 278-287.	1.7	5
83	Chapter 14 Late Quaternary sea-level change on the Black Sea shelves. <i>Geological Society Memoir</i> , 2014, 41, 199-212.	1.7	4
84	Trace-element and stable-isotope chemistry of gyrogonites of the euryhaline charophyte <i>Lamprothamnium</i> . <i>Aquatic Botany</i> , 2015, 120, 51-59.	1.6	4
85	Antiquity of the giant inselberg Burringurrah (Mount Augustus), Western Australia, inferred from oxygen isotope dating of kaolinitic weathering. <i>Geomorphology</i> , 2019, 328, 108-117.	2.6	4
86	Carbon stable isotope composition of charophyte organic matter in a small and shallow Spanish water body as a baseline for future trophic studies. <i>Journal of Limnology</i> , 0, , .	1.1	3
87	Localised magmatic constraints on continental back-arc volcanism in southern Mendoza, Argentina: the Santa Maria Volcano. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	2
88	Comment on "Mesozoic ash-flow caldera fragments in southeastern Arizona and their relation to porphyry copper deposits". <i>Geology</i> , 1986, 14, 541.	4.4	1
89	Production of ^{21}Ne in depth-profiled olivine from a 54 Ma basalt sequence, Eastern Highlands (37°S), Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 276-290.	3.9	0