

# Alan Matthews

## List of Publications by Year in descending order

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70  
papers

6,069  
citations

94433

37  
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91884

69  
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70  
docs citations

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times ranked

4489  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatic and environmental conditions in the Western Galilee, during Late Middle and Upper Paleolithic periods, based on speleothems from Manot Cave, Israel. <i>Journal of Human Evolution</i> , 2021, 160, 102605.	2.6	17
2	Comparison of climate and environment on the edge of the Palaeo-Agulhas Plain to the Little Karoo (South Africa) in Marine Isotope Stages 5–3 as indicated by speleothems. <i>Quaternary Science Reviews</i> , 2020, 235, 105803.	3.0	30
3	Tracing water column euxinia in Eastern Mediterranean Sapropels S5 and S7. <i>Chemical Geology</i> , 2020, 545, 119627.	3.3	22
4	Late Pleistocene records of speleothem stable isotopic compositions from Pinnacle Point on the South African south coast. <i>Quaternary Research</i> , 2019, 91, 265-288.	1.7	35
5	Pliocene–Pleistocene palaeoclimate reconstruction from Ashalim Cave speleothems, Negev Desert, Israel. <i>Geological Society Special Publication</i> , 2018, 466, 201-216.	1.3	5
6	Tracing the sources of sedimentary Cu and Mn ores in the Cambrian Timna Formation, Israel using Pb and Sr isotopes. <i>Journal of Geochemical Exploration</i> , 2017, 178, 67-82.	3.2	6
7	Anoxic development of sapropel S1 in the Nile Fan inferred from redox sensitive proxies, Fe speciation, Fe and Mo isotopes. <i>Chemical Geology</i> , 2017, 475, 24-39.	3.3	24
8	Levantine cranium from Manot Cave (Israel) foreshadows the first European modern humans. <i>Nature</i> , 2015, 520, 216-219.	27.8	191
9	Accounting for kinetic isotope effects in Soreq Cave (Israel) speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 143, 303-318.	3.9	49
10	Seasonal climate signals (1990–2008) in a modern Soreq Cave stalagmite as revealed by high-resolution geochemical analysis. <i>Chemical Geology</i> , 2014, 363, 322-333.	3.3	75
11	Last Glacial warm events on Mount Hermon: the southern extension of the Alpine karst range of the east Mediterranean. <i>Quaternary Science Reviews</i> , 2013, 59, 43-56.	3.0	43
12	Tracking redox controls and sources of sedimentary mineralization using copper and lead isotopes. <i>Chemical Geology</i> , 2012, 310-311, 23-35.	3.3	36
13	Seasonal resolution of Eastern Mediterranean climate change since 34ka from a Soreq Cave speleothem. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 89, 240-255.	3.9	91
14	Iron isotopes constrain biogeochemical redox cycling of iron and manganese in a Palaeoproterozoic stratified basin. <i>Earth and Planetary Science Letters</i> , 2010, 298, 125-134.	4.4	71
15	Middle-Late Quaternary paleoclimate of northern margins of the Saharan-Arabian Desert: reconstruction from speleothems of Negev Desert, Israel. <i>Quaternary Science Reviews</i> , 2010, 29, 2647-2662.	3.0	168
16	Granitoid intrusion and high temperature metamorphism in the Asteroussia Unit, Anafi Island (Greece): Petrology and geochronology. <i>Israel Journal of Earth Sciences</i> , 2009, 58, 13-27.	0.3	15
17	Large molybdenum isotope variations trace subsurface fluid migration along the Dead Sea transform. <i>Geology</i> , 2009, 37, 463-466.	4.4	21
18	Climate deterioration in the Eastern Mediterranean as revealed by ion microprobe analysis of a speleothem that grew from 2.2 to 0.9 ka in Soreq Cave, Israel. <i>Quaternary Research</i> , 2009, 71, 27-35.	1.7	149

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19	Fault-related oceanic serpentinization in the Troodos ophiolite, Cyprus: Implications for a fossil oceanic core complex. <i>Earth and Planetary Science Letters</i> , 2009, 282, 34-46.	4.4	20
20	Fluid speciation controls of low temperature copper isotope fractionation applied to the Kupferschiefer and Timna ore deposits. <i>Chemical Geology</i> , 2009, 262, 147-158.	3.3	79
21	Climatic variability during the last ~1490ka of the southern and northern Levantine Basin as evident from marine records and speleothems. <i>Quaternary Science Reviews</i> , 2009, 28, 2882-2896.	3.0	188
22	Glacial/interglacial temperature variations in Soreq cave speleothems as recorded by $\delta^{18}O$ -clumped isotope $\delta^{18}O_{clumped}$ thermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5351-5360.	3.9	264
23	Kinetic fractionation of Fe isotopes during transport through a porous quartz-sand column. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5908-5919.	3.9	9
24	Desert speleothems reveal climatic window for African exodus of early modern humans. <i>Geology</i> , 2007, 35, 831.	4.4	181
25	Copper isotope fractionation in sedimentary copper mineralization (Timna Valley, Israel). <i>Chemical Geology</i> , 2007, 243, 238-254.	3.3	148
26	Nitrate reduction, sulfate reduction, and sedimentary iron isotope evolution during the Cenomanian-Turonian oceanic anoxic event. <i>Paleoceanography</i> , 2007, 22, .	3.0	93
27	Tracing end-member fluid sources in sub-surface iron mineralization and dolomitization along a proximal fault to the dead sea transform. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5552-5570.	3.9	15
28	A preliminary mixing model for Fe isotopes in soils. <i>Chemical Geology</i> , 2005, 222, 23-34.	3.3	67
29	Experimental study of the copper isotope fractionation between aqueous Cu(II) and covellite, CuS. <i>Chemical Geology</i> , 2004, 209, 259-269.	3.3	201
30	Controls on iron-isotope fractionation in organic-rich sediments (Kimmeridge Clay, Upper Jurassic.) <i>Tectonophysics</i> , 2004, 400, 107-120.	3.9	80
31	Constraints on hydrological and paleotemperature variations in the Eastern Mediterranean region in the last 140ka given by the $\delta^{18}O$ values of speleothem fluid inclusions. <i>Quaternary Science Reviews</i> , 2004, 23, 919-934.	3.0	183
32	Paleoclimate reconstruction based on the timing of speleothem growth and oxygen and carbon isotope composition in a cave located in the rain shadow in Israel. <i>Quaternary Research</i> , 2003, 59, 182-193.	1.7	183
33	Sea-level oxygen isotopic relationships from planktonic foraminifera and speleothems in the Eastern Mediterranean region and their implication for paleorainfall during interglacial intervals. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3181-3199.	3.9	825
34	Experimental determination of oxygen isotope fractionations between CO <sub>2</sub> vapor and soda-melilite melt. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 459-471.	3.9	37
35	Volatile transport during the crystallization of anatectic melts: oxygen, boron and hydrogen stable isotope study on the metamorphic complex of Naxos, Greece. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3145-3163.	3.9	31
36	High-temperature metamorphism in marbles as a consequence of volatile release from crystallizing anatectic melts, Naxos, Greece. <i>European Journal of Mineralogy</i> , 2002, 14, 37-47.	1.3	9

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37	Tracking fluid flow during deep crustal anatexis: metasomatism of peridotites (Naxos, Greece). Contributions To Mineralogy and Petrology, 2002, 142, 700-713.	3.1	11
38	Oxygen isotope thermometry of quartz <sup>26</sup> Al <sub>2</sub> SiO <sub>5</sub> veins in high-grade metamorphic rocks on Naxos island (Greece). Contributions To Mineralogy and Petrology, 2002, 143, 350-359.	3.1	20
39	Kinetic iron stable isotope fractionation between iron (-II) and (-III) complexes in solution. Earth and Planetary Science Letters, 2001, 192, 81-92.	4.4	75
40	Oceanic and orogenic fluid <sup>26</sup> Al <sub>2</sub> SiO <sub>5</sub> rock interaction in 18O/16O-enriched metagabbros of an ophiolite (Tinos, Greece). Contributions To Mineralogy and Petrology, 2002, 143, 350-359.	4.4	16
41	Oxygen and hydrogen isotope study of high-pressure metagabbros and metabasalts (Cyclades, Greece): implications for the subduction of oceanic crust. Contributions To Mineralogy and Petrology, 2000, 138, 114-126.	3.1	88
42	D/H ratios of fluid inclusions of Soreq cave (Israel) speleothems as a guide to the Eastern Mediterranean Meteoric Line relationships in the last 120 ky. Chemical Geology, 2000, 166, 183-191.	3.3	126
43	Fluid-rock interactions during ultra-high pressure metamorphism, Dabie Shan, China. Geochimica Et Cosmochimica Acta, 1997, 61, 1685-1696.	3.9	117
44	Carbon and oxygen isotope study of the active water-carbonate system in a karstic Mediterranean cave: Implications for paleoclimate research in semiarid regions. Geochimica Et Cosmochimica Acta, 1996, 60, 337-347.	3.9	261
45	The tectono-metamorphic evolution of a dismembered ophiolite (Tinos, Cyclades, Greece). Geological Magazine, 1996, 133, 237-254.	1.5	89
46	Oxygen isotopic heterogeneities of metamorphic rocks: an original tectonostratigraphic signature, or an imprint of exotic fluids? A case study of Sifnos and Tinos islands (Greece). European Journal of Mineralogy, 1996, 8, 719-732.	1.3	25
47	Oxygen isotope geochemistry of the Rhodope polymetamorphic terrain in northern Greece: evidence for preservation of pre-metamorphic isotopic compositions. European Journal of Mineralogy, 1996, 8, 1139-1152.	1.3	13
48	The stable isotopic evolution of a metamorphic complex, Naxos, Greece. Contributions To Mineralogy and Petrology, 1995, 120, 391-403.	3.1	28
49	Textural and isotopic development of marble assemblages during the Barrovian-style M2 metamorphic event, Naxos, Greece. Contributions To Mineralogy and Petrology, 1994, 116, 130-144.	3.1	19
50	Post-metamorphic low $\delta^{13}C$ calcite in the Cycladic complex (Greece) and their implications for modeling fluid infiltration processes using carbon isotope compositions. European Journal of Mineralogy, 1994, 6, 365-380.	1.3	27
51	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. Journal of Geophysical Research, 1993, 98, 16001-16012.	3.3	4
52	Cooling during the exhumation of a blueschist terrane: Sifnos (Cyclades), Greece. European Journal of Mineralogy, 1992, 4, 619-634.	1.3	65
53	Diffusional isotopic exchange across an interlayered marble <sup>26</sup> Al <sub>2</sub> SiO <sub>5</sub> schist sequence with an application to Tinos, Cyclades, Greece. Journal of Geophysical Research, 1991, 96, 18073-18080.	3.3	14
54	Environmental Controls of Speleothem Mineralogy in a Karstic Dolomitic Terrain (Soreq Cave, Israel). Journal of Geology, 1991, 99, 189-207.	1.4	68

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55	Chemical and stable isotope fractionation in manganese oxide-bearing phosphorite mineralization, Timna Valley, Israel. <i>Geological Magazine</i> , 1990, 127, 1-12.	1.5	18
56	Constraints on effective diffusivity during oxygen isotope exchange at a marble-schist contact, Sifnos (Cyclades), Greece. <i>Earth and Planetary Science Letters</i> , 1989, 94, 208-216.	4.4	61
57	O-Sr isotopic variations in Miocene granitoids from the Aegean: evidence for an origin by combined assimilation and fractional crystallization. <i>Contributions To Mineralogy and Petrology</i> , 1988, 100, 528-541.	3.1	92
58	Evolution of the Cycladic Crystalline Complex: Petrology, Isotope Geochemistry and Geochronology. , 1987, , 389-428.		61
59	Transformation of blueschist to greenschist facies rocks as a consequence of fluid infiltration, Sifnos (Cyclades), Greece. <i>Contributions To Mineralogy and Petrology</i> , 1987, 97, 237-250.	3.1	95
60	Kinetics and mechanisms of the reaction of zoisite to anorthite under hydrothermal conditions: reaction phenomenology away from the equilibrium region. <i>Contributions To Mineralogy and Petrology</i> , 1985, 89, 110-121.	3.1	14
61	Pressure-temperature conditions in the Wadi Kid metamorphic complex: Implications for the pan-african event in SE Sinai. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 336-345.	3.1	34
62	Evolution of the blueschist and greenschist facies rocks of Sifnos, Cyclades, Greece. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 150-163.	3.1	154
63	Oxygen isotope fractionations involving pyroxenes: The calibration of mineral-pair geothermometers. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 631-644.	3.9	190
64	Oxygen isotope fractionation between zoisite and water. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 645-654.	3.9	79
65	On the mechanisms and kinetics of oxygen isotope exchange in quartz and feldspars at elevated temperatures and pressures. <i>Bulletin of the Geological Society of America</i> , 1983, 94, 396.	3.3	91
66	Influences of kinetics and mechanism in metamorphism: a study of albite crystallization. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 387-402.	3.9	18
67	Oxygen isotope fractionation between rutile and water and geothermometry of metamorphic eclogites. <i>Mineralogical Magazine</i> , 1979, 43, 405-413.	1.4	24
68	Oxygen isotope fractionation in decarbonation metamorphism: the Mottled Zone event. <i>Earth and Planetary Science Letters</i> , 1978, 39, 179-192.	4.4	35
69	The dolomitization of CaCO <sub>3</sub> : an experimental study at 252-295°C. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 297-308.	3.9	140
70	Oxygen isotope fractionation during the dolomitization of calcium carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 1431-1438.	3.9	236