

Alan Matthews

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10814547/publications.pdf>

Version: 2024-02-01

70
papers

6,069
citations

94269

37
h-index

91712

69
g-index

70
all docs

70
docs citations

70
times ranked

4489
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	825
2	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.	1.6	264
3	Carbon and oxygen isotope study of the active water-carbonate system in a karstic Mediterranean cave: Implications for paleoclimate research in semiarid regions. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 337-347.	1.6	261
4	Oxygen isotope fractionation during the dolomitization of calcium carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 1431-1438.	1.6	236
5	Experimental study of the copper isotope fractionation between aqueous Cu(II) and covellite, CuS. <i>Chemical Geology</i> , 2004, 209, 259-269.	1.4	201
6	Levantine cranium from Manot Cave (Israel) foreshadows the first European modern humans. <i>Nature</i> , 2015, 520, 216-219.	13.7	191
7	Oxygen isotope fractionations involving pyroxenes: The calibration of mineral-pair geothermometers. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 631-644.	1.6	190
8	Climatic variability during the last ~ 1490 ka of the southern and northern Levantine Basin as evident from marine records and speleothems. <i>Quaternary Science Reviews</i> , 2009, 28, 2882-2896.	1.4	188
9	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.	1.0	183
10	Constraints on hydrological and paleotemperature variations in the Eastern Mediterranean region in the last 140ka given by the δD values of speleothem fluid inclusions. <i>Quaternary Science Reviews</i> , 2004, 23, 919-934.	1.4	183
11	Desert speleothems reveal climatic window for African exodus of early modern humans. <i>Geology</i> , 2007, 35, 831.	2.0	181
12	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.	1.4	168
13	Evolution of the blueschist and greenschist facies rocks of Sifnos, Cyclades, Greece. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 150-163.	1.2	154
14	Climate deterioration in the Eastern Mediterranean as revealed by ion microprobe analysis of a speleothem that grew from 2.2 to 0.9ka in Soreq Cave, Israel. <i>Quaternary Research</i> , 2009, 71, 27-35.	1.0	149
15	Copper isotope fractionation in sedimentary copper mineralization (Timna Valley, Israel). <i>Chemical Geology</i> , 2007, 243, 238-254.	1.4	148
16	The dolomitization of CaCO ₃ : an experimental study at 252–295°C. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 297-308.	1.6	140
17	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. <i>Chemical Geology</i> , 2000, 166, 183-191.	1.4	126
18	Fluid-rock interactions during ultra-high pressure metamorphism, Dabie Shan, China. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1685-1696.	1.6	117

#	ARTICLE	IF	CITATIONS
19	Transformation of blueschist to greenschist facies rocks as a consequence of fluid infiltration, Sifnos (Cyclades), Greece. Contributions To Mineralogy and Petrology, 1987, 97, 237-250.	1.2	95
20	Nitrate reduction, sulfate reduction, and sedimentary iron isotope evolution during the Cenomanian-Turonian oceanic anoxic event. Paleoceanography, 2007, 22, .	3.0	93
21	O-Sr isotopic variations in Miocene granitoids from the Aegean: evidence for an origin by combined assimilation and fractional crystallization. Contributions To Mineralogy and Petrology, 1988, 100, 528-541.	1.2	92
22	On the mechanisms and kinetics of oxygen isotope exchange in quartz and feldspars at elevated temperatures and pressures. Bulletin of the Geological Society of America, 1983, 94, 396.	1.6	91
23	Seasonal resolution of Eastern Mediterranean climate change since 34ka from a Soreq Cave speleothem. Geochimica Et Cosmochimica Acta, 2012, 89, 240-255.	1.6	91
24	The tectono-metamorphic evolution of a dismembered ophiolite (Tinos, Cyclades, Greece). Geological Magazine, 1996, 133, 237-254.	0.9	89
25	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.	1.2	88
26	Controls on iron-isotope fractionation in organic-rich sediments (Kimmeridge Clay, Upper Jurassic,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.6	80
27	Oxygen isotope fractionation between zoisite and water. Geochimica Et Cosmochimica Acta, 1983, 47, 645-654.	1.6	79
28	Fluid speciation controls of low temperature copper isotope fractionation applied to the Kupferschiefer and Timna ore deposits. Chemical Geology, 2009, 262, 147-158.	1.4	79
29	Kinetic iron stable isotope fractionation between iron (-II) and (-III) complexes in solution. Earth and Planetary Science Letters, 2001, 192, 81-92.	1.8	75
30	Seasonal climate signals (1990-2008) in a modern Soreq Cave stalagmite as revealed by high-resolution geochemical analysis. Chemical Geology, 2014, 363, 322-333.	1.4	75
31	Iron isotopes constrain biogeochemical redox cycling of iron and manganese in a Palaeoproterozoic stratified basin. Earth and Planetary Science Letters, 2010, 298, 125-134.	1.8	71
32	Environmental Controls of Speleothem Mineralogy in a Karstic Dolomitic Terrain (Soreq Cave, Israel). Journal of Geology, 1991, 99, 189-207.	0.7	68
33	A preliminary mixing model for Fe isotopes in soils. Chemical Geology, 2005, 222, 23-34.	1.4	67
34	Cooling during the exhumation of a blueschist terrane: Sifnos (Cyclades), Greece. European Journal of Mineralogy, 1992, 4, 619-634.	0.4	65
35	Evolution of the Cycladic Crystalline Complex: Petrology, Isotope Geochemistry and Geochronology. , 1987, , 389-428.		61
36	Constraints on effective diffusivity during oxygen isotope exchange at a marble-schist contact, Sifnos (Cyclades), Greece. Earth and Planetary Science Letters, 1989, 94, 208-216.	1.8	61

#	ARTICLE	IF	CITATIONS
37	Accounting for kinetic isotope effects in Soreq Cave (Israel) speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 143, 303-318.	1.6	49
38	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.	1.4	43
39	Experimental determination of oxygen isotope fractionations between CO ₂ vapor and soda-melilite melt. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 459-471.	1.6	37
40	Tracking redox controls and sources of sedimentary mineralization using copper and lead isotopes. <i>Chemical Geology</i> , 2012, 310-311, 23-35.	1.4	36
41	Oxygen isotope fractionation in decarbonation metamorphism: the Mottled Zone event. <i>Earth and Planetary Science Letters</i> , 1978, 39, 179-192.	1.8	35
42	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.	1.0	35
43	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.	1.2	34
44	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.	1.6	31
45	Comparison of climate and environment on the edge of the Palaeo-Agulhas Plain to the Little Karoo (South Africa) in Marine Isotope Stages 5a-c as indicated by speleothems. <i>Quaternary Science Reviews</i> , 2020, 235, 105803.	1.4	30
46	The stable isotopic evolution of a metamorphic complex, Naxos, Greece. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 391-403.	1.2	28
47	Post-metamorphic low $\delta^{13}\text{C}$ calcite in the Cycladic complex (Greece) and their implications for modeling fluid infiltration processes using carbon isotope compositions. <i>European Journal of Mineralogy</i> , 1994, 6, 365-380.	0.4	27
48	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). <i>European Journal of Mineralogy</i> , 1996, 8, 719-732.	0.4	25
49	Oxygen isotope fractionation between rutile and water and geothermometry of metamorphic eclogites. <i>Mineralogical Magazine</i> , 1979, 43, 405-413.	0.6	24
50	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.	1.4	24
51	Tracing water column euxinia in Eastern Mediterranean Sapropels S5 and S7. <i>Chemical Geology</i> , 2020, 545, 119627.	1.4	22
52	Large molybdenum isotope variations trace subsurface fluid migration along the Dead Sea transform. <i>Geology</i> , 2009, 37, 463-466.	2.0	21
53	Oxygen isotope thermometry of quartz-Al ₂ SiO ₅ veins in high-grade metamorphic rocks on Naxos island (Greece). <i>Contributions To Mineralogy and Petrology</i> , 2002, 143, 350-359.	1.2	20
54	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.	1.8	20

#	ARTICLE	IF	CITATIONS
55	Textural and isotopic development of marble assemblages during the Barrovian-style M2 metamorphic event, Naxos, Greece. <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 130-144.	1.2	19
56	Influences of kinetics and mechanism in metamorphism: a study of albite crystallization. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 387-402.	1.6	18
57	Chemical and stable isotope fractionation in manganese oxide-bearing phosphorite mineralization, Timna Valley, Israel. <i>Geological Magazine</i> , 1990, 127, 1-12.	0.9	18
58	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.	1.3	17
59	Oceanic and orogenic fluid-rock interaction in $^{18}\text{O}/^{16}\text{O}$ -enriched metagabbros of an ophiolite (Tinos, Tj ETQq1 1.0.784314 rgBT / Dv	1.8	16
60	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.	1.6	15
61	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
62	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.	1.2	14
63	Diffusional isotopic exchange across an interlayered marble-schist sequence with an application to Tinos, Cyclades, Greece. <i>Journal of Geophysical Research</i> , 1991, 96, 18073-18080.	3.3	14
64	Oxygen isotope geochemistry of the Rhodope polymetamorphic terrain in northern Greece: evidence for preservation of pre-metamorphic isotopic compositions. <i>European Journal of Mineralogy</i> , 1996, 8, 1139-1152.	0.4	13
65	Tracking fluid flow during deep crustal anatexis: metasomatism of peridotites (Naxos, Greece). <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 700-713.	1.2	11
66	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.	0.4	9
67	Kinetic fractionation of Fe isotopes during transport through a porous quartz-sand column. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5908-5919.	1.6	9
68	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.	1.5	6
69	Pliocene-Pleistocene palaeoclimate reconstruction from Ashalim Cave speleothems, Negev Desert, Israel. <i>Geological Society Special Publication</i> , 2018, 466, 201-216.	0.8	5
70	Chemical remanent magnetism related to the Dead Sea Rift: Evidence from Precambrian igneous rocks of Mount Timna, southern Israel. <i>Journal of Geophysical Research</i> , 1993, 98, 16001-16012.	3.3	4