

Alan Matthews

List of Publications by Year in descending order

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6,069
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94433

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69
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docs citations

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times ranked

4489
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| # | 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. | 3.9 | 825 |
| 2 | Glacial/interglacial temperature variations in Soreq cave speleothems as recorded by $\delta^{18}O$ -clumped isotope thermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5351-5360. | 3.9 | 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. | 3.9 | 261 |
| 4 | Oxygen isotope fractionation during the dolomitization of calcium carbonate. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 1431-1438. | 3.9 | 236 |
| 5 | 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 |
| 6 | Levantine cranium from Manot Cave (Israel) foreshadows the first European modern humans. <i>Nature</i> , 2015, 520, 216-219. | 27.8 | 191 |
| 7 | Oxygen isotope fractionations involving pyroxenes: The calibration of mineral-pair geothermometers. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 631-644. | 3.9 | 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. | 3.0 | 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. | 1.7 | 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. | 3.0 | 183 |
| 11 | Desert speleothems reveal climatic window for African exodus of early modern humans. <i>Geology</i> , 2007, 35, 831. | 4.4 | 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. | 3.0 | 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. | 3.1 | 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. | 1.7 | 149 |
| 15 | Copper isotope fractionation in sedimentary copper mineralization (Timna Valley, Israel). <i>Chemical Geology</i> , 2007, 243, 238-254. | 3.3 | 148 |
| 16 | The dolomitization of CaCO ₃ : an experimental study at 252–295°C. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 297-308. | 3.9 | 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. | 3.3 | 126 |
| 18 | Fluid-rock interactions during ultra-high pressure metamorphism, Dabie Shan, China. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 1685-1696. | 3.9 | 117 |

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|----|---|-----|-----------|
| 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. | 3.1 | 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. | 3.1 | 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. | 3.3 | 91 |
| 23 | Seasonal resolution of Eastern Mediterranean climate change since 34ka from a Soreq Cave speleothem. Geochimica Et Cosmochimica Acta, 2012, 89, 240-255. | 3.9 | 91 |
| 24 | The tectono-metamorphic evolution of a dismembered ophiolite (Tinos, Cyclades, Greece). Geological Magazine, 1996, 133, 237-254. | 1.5 | 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. | 3.1 | 88 |
| 26 | Controls on iron-isotope fractionation in organic-rich sediments (Kimmeridge Clay, Upper Jurassic,) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 | 3.9 | 80 |
| 27 | Oxygen isotope fractionation between zoisite and water. Geochimica Et Cosmochimica Acta, 1983, 47, 645-654. | 3.9 | 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. | 3.3 | 79 |
| 29 | 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 |
| 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. | 3.3 | 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. | 4.4 | 71 |
| 32 | Environmental Controls of Speleothem Mineralogy in a Karstic Dolomitic Terrain (Soreq Cave, Israel). Journal of Geology, 1991, 99, 189-207. | 1.4 | 68 |
| 33 | A preliminary mixing model for Fe isotopes in soils. Chemical Geology, 2005, 222, 23-34. | 3.3 | 67 |
| 34 | Cooling during the exhumation of a blueschist terrane: Sifnos (Cyclades), Greece. European Journal of Mineralogy, 1992, 4, 619-634. | 1.3 | 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. | 4.4 | 61 |

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|----|---|-----|-----------|
| 37 | Accounting for kinetic isotope effects in Soreq Cave (Israel) speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 143, 303-318. | 3.9 | 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. | 3.0 | 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. | 3.9 | 37 |
| 40 | 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 |
| 41 | Oxygen isotope fractionation in decarbonation metamorphism: the Mottled Zone event. <i>Earth and Planetary Science Letters</i> , 1978, 39, 179-192. | 4.4 | 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. | 1.7 | 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. | 3.1 | 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. | 3.9 | 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. | 3.0 | 30 |
| 46 | The stable isotopic evolution of a metamorphic complex, Naxos, Greece. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 391-403. | 3.1 | 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. | 1.3 | 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. | 1.3 | 25 |
| 49 | Oxygen isotope fractionation between rutile and water and geothermometry of metamorphic eclogites. <i>Mineralogical Magazine</i> , 1979, 43, 405-413. | 1.4 | 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. | 3.3 | 24 |
| 51 | Tracing water column euxinia in Eastern Mediterranean Sapropels S5 and S7. <i>Chemical Geology</i> , 2020, 545, 119627. | 3.3 | 22 |
| 52 | Large molybdenum isotope variations trace subsurface fluid migration along the Dead Sea transform. <i>Geology</i> , 2009, 37, 463-466. | 4.4 | 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. | 3.1 | 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. | 4.4 | 20 |

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|----|---|-----|-----------|
| 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. | 3.1 | 19 |
| 56 | 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 |
| 57 | 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 |
| 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. | 2.6 | 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 4.4 16 | 4.4 | 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. | 3.9 | 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. | 3.1 | 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. | 1.3 | 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. | 3.1 | 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. | 1.3 | 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. | 3.9 | 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. | 3.2 | 6 |
| 69 | Pliocene-Pleistocene palaeoclimate reconstruction from Ashalim Cave speleothems, Negev Desert, Israel. <i>Geological Society Special Publication</i> , 2018, 466, 201-216. | 1.3 | 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 |