

Edwin Gnos

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,203
citations

201674

27
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155660

55
g-index

88
all docs

88
docs citations

88
times ranked

3093
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Rapid emplacement of the Oman ophiolite: Thermal and geochronologic constraints. <i>Tectonics</i> , 1996, 15, 1230-1247. | 2.8 | 308 |
| 2 | Hot and Dry Deep Crustal Xenoliths from Tibet. <i>Science</i> , 2000, 287, 2463-2466. | 12.6 | 278 |
| 3 | Late Cretaceous/early Tertiary convergence between the Indian and Arabian plates recorded in ophiolites and related sediments. <i>Tectonophysics</i> , 1997, 271, 1-19. | 2.2 | 146 |
| 4 | Very low strengths of interplanetary meteoroids and small asteroids. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1525-1550. | 1.6 | 145 |
| 5 | Pinpointing the Source of a Lunar Meteorite: Implications for the Evolution of the Moon. <i>Science</i> , 2004, 305, 657-659. | 12.6 | 140 |
| 6 | Cretaceous volcanic rocks of the South Tethyan suture zone, Pakistan: implications for the RÅ©union hotspot and Deccan Traps. <i>Earth and Planetary Science Letters</i> , 2002, 203, 295-310. | 4.4 | 136 |
| 7 | Compositional changes of a dicalcium phosphate dihydrate cement after implantation in sheep. <i>Biomaterials</i> , 2003, 24, 3463-3474. | 11.4 | 132 |
| 8 | Rare earth element mineralogy and geochemistry in a laterite profile from Madagascar. <i>Applied Geochemistry</i> , 2014, 41, 218-228. | 3.0 | 125 |
| 9 | Formation and composition of rhabdophane, bastnÅsite and hydrated thorium minerals during alteration: Implications for geochronology and low-temperature processes. <i>Chemical Geology</i> , 2008, 254, 238-248. | 3.3 | 107 |
| 10 | Weathering of meteorites from Oman: Correlation of chemical and mineralogical weathering proxies with ¹⁴ C terrestrial ages and the influence of soil chemistry. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1215-1239. | 1.6 | 106 |
| 11 | The conundrum of samail: explaining the metamorphic history. <i>Tectonophysics</i> , 1997, 279, 215-226. | 2.2 | 88 |
| 12 | Constraints on fluid evolution during metamorphism from Uâ€“Thâ€“Pb systematics in Alpine hydrothermal monazite. <i>Chemical Geology</i> , 2012, 326-327, 61-71. | 3.3 | 74 |
| 13 | Peak Metamorphic Conditions of Garnet Amphibolites Beneath the Semail Ophiolite: Implications for an Inverted Pressure Gradient. <i>International Geology Review</i> , 1998, 40, 281-304. | 2.1 | 70 |
| 14 | K-Ar ages of the metamorphic sole of the Semail Ophiolite: implications for ophiolite cooling history. <i>Contributions To Mineralogy and Petrology</i> , 1993, 113, 325-332. | 3.1 | 62 |
| 15 | Late Palaeozoic to Neogene geodynamic evolution of the northeastern Oman margin. <i>Geological Magazine</i> , 2000, 137, 1-18. | 1.5 | 62 |
| 16 | Rock-forming moissanite (natural Î±-silicon carbide). <i>American Mineralogist</i> , 2003, 88, 1817-1821. | 1.9 | 53 |
| 17 | Sayh al Uhaymir 094: A new martian meteorite from the Oman desert. <i>Meteoritics and Planetary Science</i> , 2002, 37, 835-854. | 1.6 | 52 |
| 18 | Amino acid composition, petrology, geochemistry, ¹⁴ C terrestrial age and oxygen isotopes of the ShiÅr 033 CR chondrite. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1581-1595. | 1.6 | 50 |

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|----|--|-----|-----------|
| 19 | 40Ar/39Ar dating of the emplacement of the Muslim Bagh ophiolite, Pakistan. <i>Tectonophysics</i> , 1995, 250, 169-181. | 2.2 | 48 |
| 20 | Weathering of ordinary chondrites from Oman: Correlation of weathering parameters with ¹⁴ C terrestrial ages and a refined weathering scale. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1685-1700. | 1.6 | 46 |
| 21 | Manganvesuvianite and tweddillite, two new Mn ³⁺ -silicate minerals from the Kalahari manganese fields, South Africa. <i>Mineralogical Magazine</i> , 2002, 66, 137-150. | 1.4 | 42 |
| 22 | Sapphirine-quartz and sapphirine-corundum assemblages in metamorphic rocks associated with the Semail Ophiolite (United Arab Emirates). <i>Contributions To Mineralogy and Petrology</i> , 1994, 116, 398-410. | 3.1 | 37 |
| 23 | Structural evolution of the northern end of the Oman Ophiolite and enclosed granulites. <i>Tectonophysics</i> , 1996, 254, 111-137. | 2.2 | 37 |
| 24 | The Source of the Great Dyke, Zimbabwe, and Its Tectonic Significance: Evidence from Re-Os Isotopes. <i>Journal of Geology</i> , 2003, 111, 565-578. | 1.4 | 36 |
| 25 | Late Neoproterozoic, Ordovician and Carboniferous events recorded in monazites from southern-central Madagascar. <i>Precambrian Research</i> , 2006, 144, 278-296. | 2.7 | 34 |
| 26 | Th-Pb ion probe dating of zoned hydrothermal monazite and its implications for repeated shear zone activity: An example from the Central Alps, Switzerland. <i>Tectonics</i> , 2017, 36, 671-689. | 2.8 | 34 |
| 27 | <i>P</i> and <i>P</i> nc long-range ordering in low-temperature vesuvianites. <i>American Mineralogist</i> , 2000, 85, 563-569. | 1.9 | 31 |
| 28 | Relationship among metamorphic grade, vesuvianite "rod polytypism," and vesuvianite composition. <i>American Mineralogist</i> , 2006, 91, 862-870. | 1.9 | 28 |
| 29 | The Jiddat al Harasis 073 strewn field, Sultanate of Oman. <i>Meteoritics and Planetary Science</i> , 2009, 44, 375-387. | 1.6 | 28 |
| 30 | Tetrahedral vacancies and cation ordering in low-temperature Mn-bearing vesuvianites: Indication of a hydrogarnet-like substitution. <i>American Mineralogist</i> , 2000, 85, 570-577. | 1.9 | 27 |
| 31 | The timing of the tectono-metamorphic evolution at the Neoproterozoic-Phanerozoic boundary in central southern Madagascar. <i>Precambrian Research</i> , 2011, 185, 131-148. | 2.7 | 27 |
| 32 | Formation and evolution of the Masirah ophiolite constrained by paleomagnetic study of volcanic rocks. <i>Tectonophysics</i> , 1996, 253, 53-64. | 2.2 | 25 |
| 33 | Kinoshitalite, Ba(Mg) ₃ (Al ₂ Si ₂)O ₁₀ (OH,F) ₂ , a brittle mica from a manganese deposit in Oman: Paragenesis and crystal chemistry. <i>American Mineralogist</i> , 2000, 85, 242-250. | 1.9 | 25 |
| 34 | The Wabar impact craters, Saudi Arabia, revisited. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2000-2014. | 1.6 | 25 |
| 35 | Stratigraphic and tectonic evolution of the northwestern Indian plate and Kabul Block. <i>Geological Society Special Publication</i> , 2000, 170, 467-476. | 1.3 | 22 |
| 36 | A new perspective on the significance of the Ranotsara shear zone in Madagascar. <i>International Journal of Earth Sciences</i> , 2010, 99, 1827-1847. | 1.8 | 22 |

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|----|--|-----|-----------|
| 37 | A new structural interpretation for the emplacement of the Masirah ophiolites (Oman): a main Paleocene intra-oceanic thrust. <i>Geodynamica Acta</i> , 1995, 8, 13-19. | 2.2 | 22 |
| 38 | PROVENANCE OF MARBLES FROM NAXOS BASED ON MICROSTRUCTURAL AND GEOCHEMICAL CHARACTERIZATION. <i>Archaeometry</i> , 2010, 52, 209-228. | 1.3 | 21 |
| 39 | Dating brittle tectonic movements with cleft monazite: Fluid-rock interaction and formation of REE minerals. <i>Tectonics</i> , 2013, 32, 1176-1189. | 2.8 | 21 |
| 40 | The complex exposure history of the Jiddat al Harasis 073 L-chondrite shower. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1691-1708. | 1.6 | 20 |
| 41 | Evaluation of the utility of handheld XRF in meteoritics. <i>X-Ray Spectrometry</i> , 2011, 40, 449-463. | 1.4 | 20 |
| 42 | Jiddat al Harasis 556: A howardite impact melt breccia with an H chondrite component. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1558-1574. | 1.6 | 19 |
| 43 | Electrodynamic Disaggregation: Does it Affect Apatite Fission Track and (U-Th)/He Analyses?. <i>Geostandards and Geoanalytical Research</i> , 2010, 34, 39-48. | 3.1 | 18 |
| 44 | Constraining deformation phases in the Aar Massif and the Gotthard Nappe (Switzerland) using Th-Pb crystallization ages of fissure monazite-(Ce). <i>Lithos</i> , 2019, 342-343, 223-238. | 1.4 | 18 |
| 45 | Age of cleft monazites in the eastern Tauern Window: constraints on crystallization conditions of hydrothermal monazite. <i>Swiss Journal of Geosciences</i> , 2015, 108, 55-74. | 1.2 | 17 |
| 46 | Mantle xenolith-bearing Maastrichtian to Tertiary alkaline magmatism in Oman. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a. | 2.5 | 15 |
| 47 | The Twannberg (Switzerland) IIG iron meteorites: Mineralogy, chemistry, and CRE ages. <i>Meteoritics and Planetary Science</i> , 2009, 44, 187-199. | 1.6 | 15 |
| 48 | Late Quaternary history of the Vakinankaratra volcanic field (central Madagascar): insights from luminescence dating of phreatomagmatic eruption deposits. <i>Bulletin of Volcanology</i> , 2014, 76, 1. | 3.0 | 15 |
| 49 | Petrology and geochemistry of feldspathic impact melt breccia Abar al' Uj 012, the first lunar meteorite from Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2016, 51, 1830-1848. | 1.6 | 15 |
| 50 | Studies on Uruq al Hadd meteorite. <i>Planetary and Space Science</i> , 2007, 55, 859-863. | 1.7 | 14 |
| 51 | Light noble gases in 12 meteorites from the Omani desert, Australia, Mauritania, Canada, and Sweden. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1401-1414. | 1.6 | 14 |
| 52 | Tephroite-hausmannite-galaxite from a granulite-facies manganese rock of the United Arab Emirates. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 372-377. | 3.1 | 13 |
| 53 | The regolith portion of the lunar meteorite Sayh al Uhaymir 169. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2137-2152. | 1.6 | 12 |
| 54 | Proposing new approaches for dating young volcanic eruptions by luminescence methods. <i>Geochronometria</i> , 2012, 39, 48-56. | 0.8 | 12 |

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|----|--|-----|-----------|
| 55 | Constraining long-term fault activity in the brittle domain through in situ dating of hydrothermal monazite. <i>Terra Nova</i> , 2018, 30, 440-446. | 2.1 | 12 |
| 56 | Insights into the tectonic history of the Western Alps through dating of fissure monazite in the Mont Blanc and Aiguilles Rouges Massifs. <i>Tectonophysics</i> , 2019, 750, 203-212. | 2.2 | 12 |
| 57 | Origin of diffuse superstructure reflections in labuntsovite-group minerals. <i>American Mineralogist</i> , 2004, 89, 1655-1666. | 1.9 | 11 |
| 58 | “Sweating meteorites” Water-soluble salts and temperature variation in ordinary chondrites and soil from the hot desert of Oman. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1958-1980. | 1.6 | 11 |
| 59 | Ca-Al-silicate inclusions in natural moissanite (SiC). <i>American Mineralogist</i> , 2016, 101, 71-81. | 1.9 | 11 |
| 60 | Geochronological and thermometric evidence of unusually hot fluids in an Alpine fissure of Lauzière granite (Belledonne, Western Alps). <i>Solid Earth</i> , 2019, 10, 211-223. | 2.8 | 11 |
| 61 | Crystal chemistry of the polysome ferrogobomite-2N2S, a long-known but newly defined mineral species. <i>European Journal of Mineralogy</i> , 2002, 14, 957-967. | 1.3 | 10 |
| 62 | Microstructures of coarse-grained marbles, analyzed using a new technique based on the bireflectance of calcite. <i>Tectonophysics</i> , 2009, 463, 175-184. | 2.2 | 9 |
| 63 | Trabzonite, Ca ₄ [Si ₃ O ₉ (OH)]OH: crystal structure, revised formula, new occurrence and relation to killalaite. <i>Mineralogical Magazine</i> , 2012, 76, 455-472. | 1.4 | 9 |
| 64 | Dating tectonic activity in the Lepontine Dome and Rhone-Simplon Fault regions through hydrothermal monazite-(Ce). <i>Solid Earth</i> , 2020, 11, 199-222. | 2.8 | 9 |
| 65 | ShiÅr 043 (IIIAB medium octahedrite): The first iron meteorite from the Oman desert. <i>Meteoritics and Planetary Science</i> , 2006, 41, A217. | 1.6 | 8 |
| 66 | Dolomite microstructures between 390° and 700°C: Indications for deformation mechanisms and grain size evolution. <i>Journal of Structural Geology</i> , 2016, 89, 144-152. | 2.3 | 8 |
| 67 | Meteorite reconnaissance in Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2372-2394. | 1.6 | 8 |
| 68 | Kanoite, donpeacorite and tirodite: Mn-Mg-silicates from a manganiferous quartzite in the United Arab Emirates. <i>European Journal of Mineralogy</i> , 1996, 8, 251-262. | 1.3 | 8 |
| 69 | Jiddat al Harasis 422: A ureilite with an extremely high degree of shock melting. <i>Meteoritics and Planetary Science</i> , 2011, 46, 134-148. | 1.6 | 7 |
| 70 | Quenched primary melt in Ramlat as Sahmah 517 – Snapshot of ureilite anatexis in the early solar system. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 1-20. | 3.9 | 7 |
| 71 | Episodes of fissure formation in the Alps: connecting quartz fluid inclusion, fissure monazite age, and fissure orientation data. <i>Swiss Journal of Geosciences</i> , 2021, 114, 14. | 1.2 | 7 |
| 72 | UNUSUAL FIBROUS SODIAN TAINIOLITE EPITACTIC ON PHLOGOPITE FROM MARBLE XENOLITHS OF MONT SAINT-HILAIRE, QUEBEC, CANADA. <i>Canadian Mineralogist</i> , 2007, 45, 541-549. | 1.0 | 5 |

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|----|---|-----|-----------|
| 73 | DETRITAL MONAZITE IN THE TIM MERSOI BASIN, NIGER: PROVENANCE AND CONTRIBUTION TO THE URANIUM BUDGET IN SILICICLASTIC SEDIMENTS. <i>Canadian Mineralogist</i> , 2011, 49, 487-501. | 1.0 | 5 |
| 74 | Ash Shutbah: A possible impact structure in Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1902-1914. | 1.6 | 5 |
| 75 | Cenozoic deformation in the Tauern Window (Eastern Alps) constrained by in situ Th-Pb dating of fissure monazite. <i>Solid Earth</i> , 2020, 11, 437-467. | 2.8 | 5 |
| 76 | Microcrystals coating the wing membranes of a living insect (Psocoptera: Psyllipsocidae) from a Brazilian cave. <i>Scientific Reports</i> , 2012, 2, 408. | 3.3 | 4 |
| 77 | Ion microprobe dating of fissure monazite in the Western Alps: insights from the Argentera Massif and the Piemontais and Briançonnais Zones. <i>Swiss Journal of Geosciences</i> , 2020, 113, . | 1.2 | 4 |
| 78 | Meteorite terrestrial ages in Oman based on gamma spectrometry and sediment dating, focusing on the Ramlat Fasad dense collection area. <i>Meteoritics and Planetary Science</i> , 2021, 56, 2017-2034. | 1.6 | 3 |
| 79 | Editorial: Tjerk Peters (1936–2009). <i>Swiss Journal of Geosciences</i> , 2010, 103, 1-2. | 1.2 | 2 |
| 80 | Sandstone sample analysis and additional structural data from Jabal Rayah, a possible impact structure in Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2652-2660. | 1.6 | 0 |
| 81 | Tephroite-hausmannite-galaxite from a granulite-facies manganese rock of the United Arab Emirates. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 372-377. | 3.1 | 0 |