

Edwin Gnos

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,203
citations

201674

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155660

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docs citations

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3093
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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	Meteorite reconnaissance in Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2372-2394.	1.6	8
12	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
13	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
14	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
15	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
16	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
17	Ca-Al-silicate inclusions in natural moissanite (SiC). <i>American Mineralogist</i> , 2016, 101, 71-81.	1.9	11
18	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

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19	Ash Shutbah: A possible impact structure in Saudi Arabia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1902-1914.	1.6	5
20	Rare earth element mineralogy and geochemistry in a laterite profile from Madagascar. <i>Applied Geochemistry</i> , 2014, 41, 218-228.	3.0	125
21	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
22	“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
23	The Wabar impact craters, Saudi Arabia, revisited. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2000-2014.	1.6	25
24	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
25	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
26	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
27	Constraints on fluid evolution during metamorphism from U-Th-Pb systematics in Alpine hydrothermal monazite. <i>Chemical Geology</i> , 2012, 326-327, 61-71.	3.3	74
28	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
29	Trabzonite, $\text{Ca}_4[\text{Si}_3\text{O}_9(\text{OH})]\text{OH}$: crystal structure, revised formula, new occurrence and relation to killalaite. <i>Mineralogical Magazine</i> , 2012, 76, 455-472.	1.4	9
30	Proposing new approaches for dating young volcanic eruptions by luminescence methods. <i>Geochronometria</i> , 2012, 39, 48-56.	0.8	12
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	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
33	Very low strengths of interplanetary meteoroids and small asteroids. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1525-1550.	1.6	145
34	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
35	Evaluation of the utility of handheld XRF in meteoritics. <i>X-Ray Spectrometry</i> , 2011, 40, 449-463.	1.4	20
36	Editorial: Tjerk Peters (1936-2009). <i>Swiss Journal of Geosciences</i> , 2010, 103, 1-2.	1.2	2

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37	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
38	PROVENANCE OF MARBLES FROM NAXOS BASED ON MICROSTRUCTURAL AND GEOCHEMICAL CHARACTERIZATION. <i>Archaeometry</i> , 2010, 52, 209-228.	1.3	21
39	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
40	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
41	The Twannberg (Switzerland) IIG iron meteorites: Mineralogy, chemistry, and CRE ages. <i>Meteoritics and Planetary Science</i> , 2009, 44, 187-199.	1.6	15
42	The Jiddat al Harasis 073 strewn field, Sultanate of Oman. <i>Meteoritics and Planetary Science</i> , 2009, 44, 375-387.	1.6	28
43	Formation and composition of rhabdophane, bastnaesite and hydrated thorium minerals during alteration: Implications for geochronology and low-temperature processes. <i>Chemical Geology</i> , 2008, 254, 238-248.	3.3	107
44	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
45	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
46	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
47	The regolith portion of the lunar meteorite Sayh al Uhaymir 169. <i>Meteoritics and Planetary Science</i> , 2007, 42, 2137-2152.	1.6	12
48	Studies on Uruq al Hadd meteorite. <i>Planetary and Space Science</i> , 2007, 55, 859-863.	1.7	14
49	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
50	Late Neoproterozoic, Ordovician and Carboniferous events recorded in monazites from southern-central Madagascar. <i>Precambrian Research</i> , 2006, 144, 278-296.	2.7	34
51	Relationship among metamorphic grade, vesuvianite "rod polytypism," and vesuvianite composition. <i>American Mineralogist</i> , 2006, 91, 862-870.	1.9	28
52	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
53	Pinpointing the Source of a Lunar Meteorite: Implications for the Evolution of the Moon. <i>Science</i> , 2004, 305, 657-659.	12.6	140
54	Origin of diffuse superstructure reflections in labuntsovite-group minerals. <i>American Mineralogist</i> , 2004, 89, 1655-1666.	1.9	11

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55	Compositional changes of a dicalcium phosphate dihydrate cement after implantation in sheep. <i>Biomaterials</i> , 2003, 24, 3463-3474.	11.4	132
56	Mantle xenolith-bearing Maastrichtian to Tertiary alkaline magmatism in Oman. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	15
57	Rock-forming moissanite (natural \hat{I} -silicon carbide). <i>American Mineralogist</i> , 2003, 88, 1817-1821.	1.9	53
58	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
59	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
60	Crystal chemistry of the polysome ferrohogbomite-2N2S, a long-known but newly defined mineral species. <i>European Journal of Mineralogy</i> , 2002, 14, 957-967.	1.3	10
61	Cretaceous volcanic rocks of the South Tethyan suture zone, Pakistan: implications for the Réunion hotspot and Deccan Traps. <i>Earth and Planetary Science Letters</i> , 2002, 203, 295-310.	4.4	136
62	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
63	P_{4n} and P_{4n+1} long-range ordering in low-temperature vesuvianites. <i>American Mineralogist</i> , 2000, 85, 563-569.	1.9	31
64	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
65	Kinoshitalite, $Ba(Mg)_3(Al)_2Si_2O_{10}(OH,F)_2$, a brittle mica from a manganese deposit in Oman: Paragenesis and crystal chemistry. <i>American Mineralogist</i> , 2000, 85, 242-250.	1.9	25
66	Late Palaeozoic to Neogene geodynamic evolution of the northeastern Oman margin. <i>Geological Magazine</i> , 2000, 137, 1-18.	1.5	62
67	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
68	Hot and Dry Deep Crustal Xenoliths from Tibet. <i>Science</i> , 2000, 287, 2463-2466.	12.6	278
69	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
70	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
71	The conundrum of samail: explaining the metamorphic history. <i>Tectonophysics</i> , 1997, 279, 215-226.	2.2	88
72	Rapid emplacement of the Oman ophiolite: Thermal and geochronologic constraints. <i>Tectonics</i> , 1996, 15, 1230-1247.	2.8	308

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73	Formation and evolution of the Masirah ophiolite constrained by paleomagnetic study of volcanic rocks. <i>Tectonophysics</i> , 1996, 253, 53-64.	2.2	25
74	Structural evolution of the northern end of the Oman Ophiolite and enclosed granulites. <i>Tectonophysics</i> , 1996, 254, 111-137.	2.2	37
75	Kanoite, donpeacorite and tirodite: Mn-Mg-silicates from a manganese quartzite in the United Arab Emirates. <i>European Journal of Mineralogy</i> , 1996, 8, 251-262.	1.3	8
76	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
77	$^{40}\text{Ar}/^{39}\text{Ar}$ dating of the emplacement of the Muslim Bagh ophiolite, Pakistan. <i>Tectonophysics</i> , 1995, 250, 169-181.	2.2	48
78	A new structural interpretation for the emplacement of the Masirah ophiolites (Oman): a main Paleocene intra-oceanic thrust. <i>Geodinamica Acta</i> , 1995, 8, 13-19.	2.2	22
79	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
80	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
81	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