

Axel Hofmann

List of Publications by Year in descending order

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99
papers

4,662
citations

109321

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h-index

102487

66
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all docs

99
docs citations

99
times ranked

3348
citing authors

#	ARTICLE	IF	CITATIONS
1	The onset of deep recycling of supracrustal materials at the Paleo-Mesoarchean boundary. National Science Review, 2022, 9, nwab136.	9.5	14
2	The Late Palaeozoic Ice Age unconformity in southern Namibia viewed as a patchwork mosaic. Depositional Record, 2022, 8, 419-435.	1.7	8
3	Geology, zircon U-Pb dating and $^{107}\text{Lu}/^{176}\text{Lu}$ data for the Julie greenstone belt and associated rocks in NW Ghana: Implications for Birimian-to-Tarkwaian correlation and crustal evolution. Journal of African Earth Sciences, 2022, 186, 104444.	2.0	11
4	Crustal modelling from Pan-African granites of the Colomine Gold District, SE Cameroon: Insights from zircon U-Pb dating and Lu-Hf isotope systematics. Journal of African Earth Sciences, 2022, 187, 104441.	2.0	2
5	2470 million-year-old banded iron formation reveals a climatic oscillation consistent with the Gleissberg solar cycle. Communications Earth & Environment, 2022, 3, .	6.8	3
6	The origin of early continental crust: New clues from coupling Ge/Si ratios with silicon isotopes. Earth and Planetary Science Letters, 2022, 582, 117415.	4.4	14
7	The Archaean geological history of the Singhbhum Craton, India – a proposal for a consistent framework of craton evolution. Earth-Science Reviews, 2022, 228, 103994.	9.1	18
8	Anoxic continental surface weathering recorded by the $^{2.95}\text{Ga}$ Denny Dalton Paleosol (Pongola) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.9	11
9	Mesoarchaeoan acidic volcanic lakes: A critical ecological niche in early land colonisation. Earth and Planetary Science Letters, 2021, 556, 116725.	4.4	6
10	Chromium isotope systematics and the diagenesis of marine carbonates. Earth and Planetary Science Letters, 2021, 562, 116824.	4.4	24
11	$^{3.51}\text{Ga}$ old felsic volcanic rocks and carbonaceous cherts from the Gorumahisani Greenstone Belt – Insights into the Palaeoarchaeoan record of the Singhbhum Craton, India. Precambrian Research, 2021, 357, 106109.	2.7	22
12	A lithium-isotope perspective on the evolution of carbon and silicon cycles. Nature, 2021, 595, 394-398.	27.8	56
13	Cellular remains in a ~3.42-billion-year-old subseafloor hydrothermal environment. Science Advances, 2021, 7, .	10.3	34
14	Coupled stable chromium and iron isotopic fractionation tracing magmatic mineral crystallization in Archean komatiite-tholeiite suites. Chemical Geology, 2021, 576, 120121.	3.3	12
15	Age of the Dominion-Nsuze Igneous Province, the first intracratonic Igneous Province of the Kaapvaal Craton. Precambrian Research, 2021, 363, 106335.	2.7	12
16	Limited expression of the Paleoproterozoic Oklo natural nuclear reactor phenomenon in the aftermath of a widespread deoxygenation event ~2.11–2.06 billion years ago. Chemical Geology, 2021, 578, 120315.	3.3	3
17	Possible discontinuous evolution of atmospheric xenon suggested by Archean barites. Chemical Geology, 2021, 581, 120405.	3.3	4
18	Barberton Greenstone Belt, Sedimentology. , 2021, , 1-3.		0

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19	A revised classification scheme of pyrite in the Witwatersrand Basin and application to placer gold deposits. <i>Earth-Science Reviews</i> , 2020, 201, 103064.	9.1	14
20	Uranium isotope evidence for Mesoarchean biological oxygen production in shallow marine and continental settings. <i>Earth and Planetary Science Letters</i> , 2020, 551, 116583.	4.4	13
21	Hafnium-Neodymium isotope, trace element and U-Pb zircon age constraints on the petrogenesis of the 3.44–3.46 Ga Dwalile greenstone remnant, Ancient gneiss Complex, Swaziland. <i>Precambrian Research</i> , 2020, 351, 105970.	2.7	6
22	Constraining provenance for the uraniferous Paleoproterozoic Francevillian Group sediments (Gabon) with detrital zircon geochronology and geochemistry. <i>Precambrian Research</i> , 2020, 343, 105724.	2.7	6
23	The Mesoarchean Dominion Group and the onset of intracontinental volcanism on the Kaapvaal craton – Geological, geochemical and temporal constraints. <i>Gondwana Research</i> , 2020, 84, 131-150.	6.0	11
24	Early continental crust generated by reworking of basalts variably silicified by seawater. <i>Nature Geoscience</i> , 2019, 12, 769-773.	12.9	45
25	A paleosol record of the evolution of Cr redox cycling and evidence for an increase in atmospheric oxygen during the Neoproterozoic. <i>Geobiology</i> , 2019, 17, 579-593.	2.4	27
26	Reply to the comment by Pr�at and Weber on. <i>Earth and Planetary Science Letters</i> , 2019, 511, 259-261.	4.4	3
27	Petrochemical characterization of Neoproterozoic Colomine granitoids, SE Cameroon: Implications for gold mineralization. <i>Lithos</i> , 2019, 344-345, 175-192.	1.4	21
28	Ice margin fluctuation sequences and grounding zone wedges: The record of the Late Palaeozoic Ice Age in the eastern Karoo Basin (Dwyka Group, South Africa). <i>Depositional Record</i> , 2019, 5, 247-271.	1.7	24
29	Limited oxygen production in the Mesoarchean ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6647-6652.	7.1	42
30	The Pongola Supergroup: Mesoarchean Deposition Following Kaapvaal Craton Stabilization. <i>Regional Geology Reviews</i> , 2019, , 225-254.	1.2	15
31	Archaean Granitoid – Greenstone Geology of the Southeastern Part of the Kaapvaal Craton. <i>Regional Geology Reviews</i> , 2019, , 33-54.	1.2	10
32	Mesoarchean Gold Mineralisation in the Barberton Greenstone Belt: A Review. <i>Regional Geology Reviews</i> , 2019, , 171-184.	1.2	7
33	The Paleoproterozoic Record of the Zimbabwe Craton. , 2019, , 855-864.		4
34	Petrogenesis of the Neoproterozoic diorite-granite association in the Wangwushan area, southern North China Craton: Implications for continental crust evolution. <i>Precambrian Research</i> , 2019, 326, 84-104.	2.7	16
35	Two-step deoxygenation at the end of the Paleoproterozoic Lomagundi Event. <i>Earth and Planetary Science Letters</i> , 2018, 486, 70-83.	4.4	58
36	Isotopic evidence for oxygenated Mesoarchean shallow oceans. <i>Nature Geoscience</i> , 2018, 11, 133-138.	12.9	86

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37	A review of Palaeoarchaean felsic volcanism in the eastern Kaapvaal craton: Linking plutonic and volcanic records. <i>Geoscience Frontiers</i> , 2018, 9, 667-688.	8.4	47
38	Petrographic and Micro-XRF analysis of multiple archean impact-derived spherule layers in drill core CT3 from the northern Barberton Greenstone Belt (South Africa). <i>Journal of African Earth Sciences</i> , 2018, 138, 264-288.	2.0	8
39	Characterization of kerogenous films and taphonomic modes of the Sirius Passet Lagerst�tte, Greenland. <i>Geology</i> , 2018, 46, 359-362.	4.4	14
40	3.2 Ga detrital uraninite in the Witwatersrand Basin, South Africa: Evidence of a reducing Archean atmosphere. <i>Geology</i> , 2018, 46, 295-298.	4.4	16
41	(Ca-Y)-phosphate inclusions in apatite crystals from Archean rocks from the Barberton Greenstone Belt and Pilbara Craton: First report of natural occurrence. <i>American Mineralogist</i> , 2018, 103, 307-313.	1.9	4
42	A Mesoarchean shift in uranium isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 238, 438-452.	3.9	52
43	Aerobic iron and manganese cycling in a redox-stratified Mesoarchean epicontinental sea. <i>Earth and Planetary Science Letters</i> , 2018, 500, 28-40.	4.4	54
44	Gold mobility during Palaeoarchaean submarine alteration. <i>Earth and Planetary Science Letters</i> , 2017, 462, 47-54.	4.4	11
45	Analytical requirements for quantitative X-ray fluorescence nano-imaging of metal traces in solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 91, 104-111.	11.4	35
46	Titanium isotopic evidence for felsic crust and plate tectonics 3.5 billion years ago. <i>Science</i> , 2017, 357, 1271-1274.	12.6	166
47	Juvenile crust formation in the Zimbabwe Craton deduced from the O-Hf isotopic record of 3.8-3.1 Ga detrital zircons. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 432-446.	3.9	37
48	Nondestructive spectroscopic and petrochemical investigations of Paleoarchean spherule layers from the ICDP drill core BARB5, Barberton Mountain Land, South Africa. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2441-2458.	1.6	14
49	Unusual manganese enrichment in the Mesoarchean Mozaan Group, Pongola Supergroup, South Africa. <i>Precambrian Research</i> , 2016, 281, 414-433.	2.7	35
50	An atmospheric source of S in Mesoarchaeon structurally-controlled gold mineralisation of the Barberton Greenstone Belt. <i>Precambrian Research</i> , 2016, 285, 10-20.	2.7	38
51	Source composition, fractional crystallization and magma mixing processes in the 3.48-3.43 Ga Tsawela tonalite suite (Ancient Gneiss Complex, Swaziland) - Implications for Palaeoarchaeon geodynamics. <i>Precambrian Research</i> , 2016, 276, 43-66.	2.7	58
52	Desilication in Archean weathering processes traced by silicon isotopes and Ge/Si ratios. <i>Chemical Geology</i> , 2016, 420, 139-147.	3.3	25
53	Precise U-Pb baddeleyite age dating of the Usushwana Complex, southern Africa - Implications for the Mesoarchaeon magmatic and sedimentological evolution of the Pongola Supergroup, Kaapvaal Craton. <i>Precambrian Research</i> , 2015, 267, 174-185.	2.7	39
54	Differentiating marine vs hydrothermal processes in Devonian carbonatemoounds using rare earth elements (Kess Kess moounds, Anti-Atlas, Morocco). <i>Chemical Geology</i> , 2015, 409, 69-86.	3.3	29

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55	Discovery of extraterrestrial component carrier phases in Archean spherule layers: Implications for estimation of Archean bolide sizes. <i>Geology</i> , 2015, 43, 299-302.	4.4	17
56	The Nhlngano gneiss dome in south-west Swaziland – A record of crustal destabilization of the eastern Kaapvaal craton in the Neoproterozoic. <i>Precambrian Research</i> , 2015, 258, 109-132.	2.7	25
57	Fluid inclusion analysis of silicified Palaeoproterozoic oceanic crust – A record of Archean seawater?. <i>Precambrian Research</i> , 2015, 266, 150-164.	2.7	15
58	A trace element and Pb isotopic investigation into the provenance and deposition of stromatolitic carbonates, ironstones and associated shales of the ~3.0 Ga Pongola Supergroup, Kaapvaal Craton. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 57-78.	3.9	70
59	Chapter 7 A review of the current status of the Older Metamorphic Group and Older Metamorphic Tonalite Gneiss: insights into the Palaeoproterozoic history of the Singhbhum craton, India. <i>Geological Society Memoir</i> , 2015, 43, 103-107.	1.7	26
60	Palaeoproterozoic felsic magmatism: A melt inclusion study of 3.45 Ga old rhyolites from the Barberton Greenstone Belt, South Africa. <i>Chemical Geology</i> , 2015, 414, 69-83.	3.3	9
61	Barberton Greenstone Belt, <i>Sedimentology</i> . , 2015, , 244-246.		0
62	Generation of early Archean grey gneisses through melting of older crust in the eastern Kaapvaal craton, southern Africa. <i>Precambrian Research</i> , 2014, 255, 823-846.	2.7	84
63	Comparing orthomagmatic and hydrothermal mineralization models for komatiite-hosted nickel deposits in Zimbabwe using multiple-sulfur, iron, and nickel isotope data. <i>Mineralium Deposita</i> , 2014, 49, 75-100.	4.1	56
64	Trace element zoning of sulfides and quartz at Sheba and Fairview gold mines: Clues to Mesoproterozoic mineralisation in the Barberton Greenstone Belt, South Africa. <i>Ore Geology Reviews</i> , 2014, 56, 94-114.	2.7	36
65	Evidence for oxygenic photosynthesis half a billion years before the Great Oxidation Event. <i>Nature Geoscience</i> , 2014, 7, 283-286.	12.9	444
66	Diagenetic xenotime age constraints on the Sanjiaotang Formation, Luoyu Group, southern margin of the North China Craton: Implications for regional stratigraphic correlation and early evolution of eukaryotes. <i>Precambrian Research</i> , 2014, 251, 21-32.	2.7	51
67	High-grade metamorphism of ironstones in the Mesoproterozoic of southwest Swaziland. <i>Mineralogy and Petrology</i> , 2014, 108, 589-605.	1.1	6
68	Hydrothermal clay mineral formation in the uraniferous Paleoproterozoic FA Formation, Francavillan basin, Gabon. <i>Precambrian Research</i> , 2014, 246, 134-149.	2.7	8
69	Coupled Fe and S isotope variations in pyrite nodules from Archean shale. <i>Earth and Planetary Science Letters</i> , 2014, 392, 67-79.	4.4	86
70	Dykes of the 1.11Ga Umkondo LIP, Southern Africa: Clues to a complex plumbing system. <i>Precambrian Research</i> , 2014, 249, 129-143.	2.7	60
71	Crystallisation of magmatic topaz and implications for Nb-Ta-W mineralisation in F-rich silicic melts – The Ary-Bulak ongonite massif. <i>Lithos</i> , 2014, 202-203, 317-330.	1.4	21
72	Barberton Greenstone Belt, <i>Sedimentology</i> . , 2014, , 1-3.		0

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73	Exceptional preservation of expandable clay minerals in the ca. 2.1Ga black shales of the Francevillian basin, Gabon and its implication for atmospheric oxygen accumulation. <i>Chemical Geology</i> , 2013, 362, 181-192.	3.3	31
74	Sulfur record of rising and falling marine oxygen and sulfate levels during the Lomagundi event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18300-18305.	7.1	174
75	Iron isotope composition of some Archean and Proterozoic iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 158-169.	3.9	147
76	Zircon SHRIMP dating confirms a Palaeoarchean supracrustal terrain in the southeastern Kaapvaal Craton, southern Africa. <i>Gondwana Research</i> , 2012, 21, 818-828.	6.0	29
77	Implications of in situ calcification for photosynthesis in a ~3.3Ga-old microbial biofilm from the Barberton greenstone belt, South Africa. <i>Earth and Planetary Science Letters</i> , 2011, 310, 468-479.	4.4	75
78	Archean Hydrothermal Systems in the Barberton Greenstone Belt and Their Significance as a Habitat for Early Life. , 2011, , 51-78.		15
79	Geodynamo, Solar Wind, and Magnetopause 3.4 to 3.45 Billion Years Ago. <i>Science</i> , 2010, 327, 1238-1240.	12.6	256
80	Rare Earth Element and yttrium compositions of Archean and Paleoproterozoic Fe formations revisited: New perspectives on the significance and mechanisms of deposition. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6387-6405.	3.9	373
81	Towards a complete magmatic barcode for the Zimbabwe craton: Baddeleyite Uâ€Pb dating of regional dolerite dyke swarms and sill complexes. <i>Precambrian Research</i> , 2010, 183, 388-398.	2.7	148
82	A review of the stratigraphy and geological setting of the Palaeoproterozoic Magondi Supergroup, Zimbabwe â€“ Type locality for the Lomagundi carbon isotope excursion. <i>Precambrian Research</i> , 2010, 182, 254-273.	2.7	44
83	Multiple sulphur and iron isotope composition of detrital pyrite in Archean sedimentary rocks: A new tool for provenance analysis. <i>Earth and Planetary Science Letters</i> , 2009, 286, 436-445.	4.4	113
84	Diagenetic Fe-carbonates in Paleoarchean felsic sedimentary rocks (Hooggenoeg Formation,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 budget of seawater. <i>Precambrian Research</i> , 2009, 172, 255-278.	2.7	20
85	Evidence for a 3.45â€billionâ€yearâ€old magnetic remanence: Hints of an ancient geodynamo from conglomerates of South Africa. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	40
86	Microbial remains in some earliest Earth rocks: Comparison with a potential modern analogue. <i>Precambrian Research</i> , 2008, 164, 187-200.	2.7	82
87	Silica alteration zones in the Barberton greenstone belt: A window into seafloor processes 3.5â€“3.3Ga ago. <i>Chemical Geology</i> , 2008, 257, 221-239.	3.3	157
88	Chapter 5.5 Silicified Basalts, Bedded Cherts and Other Sea Floor Alteration Phenomena of the 3.4 Ga Nondweni Greenstone Belt, South Africa. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 2007, 15, 571-605.	0.2	36
89	Carbonaceous Cherts in the Barberton Greenstone Belt and Their Significance for the Study of Early Life in the Archean Record. <i>Astrobiology</i> , 2007, 7, 355-388.	3.0	99
90	Archean spherule layers in the Barberton greenstone belt, South Africa: A discussion of problems related to the impact interpretation. , 2006, , .		18

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91	The geochemistry of sedimentary rocks from the Fig Tree Group, Barberton greenstone belt: Implications for tectonic, hydrothermal and surface processes during mid-Archaean times. <i>Precambrian Research</i> , 2005, 143, 23-49.	2.7	187
92	The Belingwe Greenstone Belt: Ensialic or Oceanic?. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 2004, , 487-538.	0.2	21
93	The geochemistry of Archaean shales derived from a Mafic volcanic sequence, Belingwe greenstone belt, Zimbabwe: provenance, source area unroofing and submarine versus subaerial weathering. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 421-440.	3.9	64
94	Continental setting inferred for emplacement of the 2.9â€“2.7 Ga Belingwe Greenstone Belt, Zimbabwe: Comment and Reply. <i>Geology</i> , 2003, 31, e30-e31.	4.4	4
95	Pb- and Nd-isotope systematics of stromatolitic limestones from the 2.7 Ga Ngezi Group of the Belingwe Greenstone Belt: constraints on timing of deposition and provenance. <i>Precambrian Research</i> , 2002, 114, 277-294.	2.7	55
96	Thrust-related accretion of an Archaean greenstone belt in the Midlands of Zimbabwe. <i>Journal of Structural Geology</i> , 2002, 24, 1707-1727.	2.3	29
97	Horizontal tectonic deformation geometries in a late Archaean sedimentary sequence, Belingwe greenstone belt, Zimbabwe. <i>Tectonics</i> , 2001, 20, 909-932.	2.8	17
98	Cyclicity of Triassic to Lower Jurassic continental red beds of the Argana Valley, Morocco: implications for palaeoclimate and basin evolution. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 161, 229-266.	2.3	65
99	Continental extensional setting for the Archean Belingwe Greenstone Belt, Zimbabwe: Comment and Reply. <i>Geology</i> , 1999, 27, 667.	4.4	5