

Albrecht W Hofmann

List of Publications by Year in descending order

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58
papers

13,176
citations

71102

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161849

54
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59
all docs

59
docs citations

59
times ranked

5347
citing authors

#	ARTICLE	IF	CITATIONS
1	Archean cratonic mantle recycled at a mid-ocean ridge. <i>Science Advances</i> , 2022, 8, .	10.3	30
2	Mantle Plumes. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 1094-1107.	0.1	0
3	Nephelinites in eastern China originating from the mantle transition zone. <i>Chemical Geology</i> , 2021, 576, 120276.	3.3	22
4	Mantle Plumes. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-13.	0.1	0
5	Dynamics of rheological heterogeneities in mantle plumes. <i>Earth and Planetary Science Letters</i> , 2018, 499, 74-82.	4.4	18
6	Recycled ancient ghost carbonate in the Pitcairn mantle plume. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8682-8687.	7.1	73
7	Pyroxenite Layers in the Northern Apenninesâ€™ Upper Mantle (Italy)â€™ Generation by Pyroxenite Melting and Melt Infiltration. <i>Journal of Petrology</i> , 2016, 57, 625-653.	2.8	41
8	Meter-scale Nd isotopic heterogeneity in pyroxenite-bearing Ligurian peridotites encompasses global-scale upper mantle variability. <i>Geology</i> , 2013, 41, 1055-1058.	4.4	38
9	A young source for the Hawaiian plume. <i>Nature</i> , 2011, 476, 434-437.	27.8	82
10	Displaced helium and carbon in the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2011, 312, 226-236.	4.4	26
11	Mantle Plumes. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 857-869.	0.1	5
12	Dynamics and internal structure of the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2010, 295, 231-240.	4.4	86
13	Dynamics and internal structure of a lower mantle plume conduit. <i>Earth and Planetary Science Letters</i> , 2009, 282, 314-322.	4.4	76
14	Non-chondritic HSE budget in Earth's upper mantle evidenced by abyssal peridotites from Gakkel ridge (Arctic Ocean). <i>Earth and Planetary Science Letters</i> , 2009, 283, 122-132.	4.4	72
15	Sources of Anfengshan basalts: Subducted lower crust in the Sulu UHP belt, China. <i>Earth and Planetary Science Letters</i> , 2009, 286, 426-435.	4.4	87
16	Isotopic equilibrium between mantle peridotite and melt: Evidence from the Corsica ophiolite. <i>Earth and Planetary Science Letters</i> , 2009, 288, 601-610.	4.4	36
17	Multi-stage meltâ€™rock interaction in the Mt. Maggiore (Corsica, France) ophiolitic peridotites: microstructural and geochemical evidence. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 453-475.	3.1	108
18	Ancient, highly heterogeneous mantle beneath Gakkel ridge, Arctic Ocean. <i>Nature</i> , 2008, 452, 311-316.	27.8	288

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19	A Quantitative Link Between Recycling and Osmium Isotopes. <i>Science</i> , 2008, 321, 536-536.	12.6	57
20	Geodynamic Setting of the Tertiary Hocheifel Volcanism (Germany), Part II: Geochemistry and Sr, Nd and Pb Isotopic Compositions. , 2007, , 207-239.		8
21	Depth of formation of subcontinental off-craton peridotites. <i>Earth and Planetary Science Letters</i> , 2007, 261, 620-634.	4.4	71
22	Compositional diversity among primitive lavas of Mauritius, Indian Ocean: Implications for mantle sources. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 164, 76-94.	2.1	19
23	The Amount of Recycled Crust in Sources of Mantle-Derived Melts. <i>Science</i> , 2007, 316, 412-417.	12.6	470
24	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	563
25	Origin of MORB enrichment and relative trace element compatibilities along the Mid-Atlantic Ridge between 10° and 24°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	72
26	An olivine-free mantle source of Hawaiian shield basalts. <i>Nature</i> , 2005, 434, 590-597.	27.8	942
27	Early crust on top of the Earth's core. <i>Physics of the Earth and Planetary Interiors</i> , 2005, 148, 109-130.	1.9	176
28	FOZO, HIMU, and the rest of the mantle zoo. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	512
29	Just add water. <i>Nature</i> , 2003, 425, 24-25.	27.8	6
30	The 320 kyr Pb isotope evolution of Mauna Kea lavas recorded in the HSDP-2 drill core. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	129
31	Significance of large, refractory dunite bodies in the upper mantle of the Bay of Islands Ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	92
32	Contrasting geochemical patterns in the 3.7–3.8 Ga pillow basalt cores and rims, Isua greenstone belt, Southwest Greenland: implications for postmagmatic alteration processes. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 441-457.	3.9	137
33	Mass conservation – elemental and isotopic fractionation. , 2003, , 23-46.		0
34	Garnet-field Melting and Late-stage Refertilization in 'Residual' Abyssal Peridotites from the Central Indian Ridge. <i>Journal of Petrology</i> , 2002, 43, 2305-2338.	2.8	321
35	The role of sediment recycling in EM-1 inferred from Os, Pb, Hf, Nd, Sr isotope and trace element systematics of the Pitcairn hotspot. <i>Earth and Planetary Science Letters</i> , 2002, 196, 197-212.	4.4	274
36	Melt percolation monitored by Os isotopes and HSE abundances: a case study from the mantle section of the Troodos Ophiolite. <i>Earth and Planetary Science Letters</i> , 2002, 204, 385-402.	4.4	169

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37	187 Os-enriched domain in an Archean mantle plume: evidence from 2.8 Ga komatiites of the Kostomuksha greenstone belt, NW Baltic Shield. <i>Earth and Planetary Science Letters</i> , 2001, 186, 513-526.	4.4	45
38	Lead isotopes and the age of the Earth – a geochemical accident. <i>Geological Society Special Publication</i> , 2001, 190, 223-236.	1.3	13
39	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. <i>Nature</i> , 2001, 410, 677-681.	27.8	528
40	Recycled oceanic crust observed in “ghost plagioclase” within the source of Mauna Loa lavas. <i>Nature</i> , 2000, 404, 986-990.	27.8	366
41	The Preparation and Preliminary Characterisation of Eight Geological MPI-DING Reference Glasses for In-Situ Microanalysis. <i>Geostandards and Geoanalytical Research</i> , 2000, 24, 87-133.	3.1	286
42	The mafic-ultramafic complex near Finero (Ivrea-Verbano Zone), I. Chemistry of MORB-like magmas. <i>Chemical Geology</i> , 1997, 140, 207-222.	3.3	29
43	Oxygen isotope constraints on the sources of Hawaiian volcanism. <i>Earth and Planetary Science Letters</i> , 1996, 144, 453-467.	4.4	202
44	The relationship between websterite and peridotite in the Balmuccia peridotite massif (NW Italy) as revealed by trace element variations in clinopyroxene. <i>Contributions To Mineralogy and Petrology</i> , 1995, 121, 275-288.	3.1	65
45	Segregation of subducted oceanic crust in the convecting mantle. <i>Journal of Geophysical Research</i> , 1994, 99, 19867-19884.	3.3	477
46	U–Th–Ra systematics in Kilauea and Mauna Loa basalts, Hawaii. <i>Chemical Geology</i> , 1994, 116, 163-180.	3.3	49
47	The heterogeneous Iceland plume: Nd–Sr isotopes and trace element constraints. <i>Journal of Geophysical Research</i> , 1993, 98, 15833-15850.	3.3	288
48	Primary positive Eu anomaly in clinopyroxenes of low-crust gabbroic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2363-2370.	3.9	40
49	Trace element distribution between clinopyroxene and garnet in gabbroic rocks of the deep crust: An ion microprobe study. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 2371-2385.	3.9	45
50	himu-em: The French Polynesian connection. <i>Earth and Planetary Science Letters</i> , 1992, 110, 99-119.	4.4	589
51	Fossil plume head beneath the Arabian lithosphere?. <i>Earth and Planetary Science Letters</i> , 1992, 114, 193-209.	4.4	178
52	Sr-Nd-Pb isotope evidence against plume-asthenosphere mixing north of Iceland. <i>Earth and Planetary Science Letters</i> , 1991, 107, 243-255.	4.4	87
53	Geochemistry of peridotites and mafic igneous rocks from the Central Dinaric Ophiolite Belt, Yugoslavia. <i>Contributions To Mineralogy and Petrology</i> , 1991, 106, 201-216.	3.1	66
54	Chemical differentiation of the Earth: the relationship between mantle, continental crust, and oceanic crust. <i>Earth and Planetary Science Letters</i> , 1988, 90, 297-314.	4.4	2,891

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55	Partitioning of U, Pb, Cs, Yb, Hf, Re and Os between chromian diopsidic pyroxene and haplobasaltic liquid. <i>Chemical Geology</i> , 1987, 62, 191-208.	3.3	92
56	Case studies on the origin of basalt: III. Petrogenesis of the Mauna Ulu eruption, Kilauea, 1969?1971. <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 24-35.	3.1	128
57	Ba, Rb and Cs in the Earth's Mantle. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1983, 38, 256-266.	1.5	191
58	Mantle plumes from ancient oceanic crust. <i>Earth and Planetary Science Letters</i> , 1982, 57, 421-436.	4.4	1,367