

Albrecht W Hofmann

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54
papers

11,073
citations

40
h-index

59
g-index

59
ext. papers

11,999
ext. citations

10.8
avg, IF

6.21
L-index

#	Paper	IF	Citations
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	5.3	2529
53	Mantle plumes from ancient oceanic crust. <i>Earth and Planetary Science Letters</i> , 1982 , 57, 421-436	5.3	1190
52	An olivine-free mantle source of Hawaiian shield basalts. <i>Nature</i> , 2005 , 434, 590-7	50.4	753
51	himu-em: The French Polynesian connection. <i>Earth and Planetary Science Letters</i> , 1992 , 110, 99-119	5.3	529
50	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. <i>Nature</i> , 2001 , 410, 677-81	50.4	460
49	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	3.6	445
48	FOZO, HIMU, and the rest of the mantle zoo. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	421
47	Segregation of subducted oceanic crust in the convecting mantle. <i>Journal of Geophysical Research</i> , 1994 , 99, 19867-19884		414
46	Recycled oceanic crust observed in 'ghost plagioclase' within the source of Mauna Loa lavas. <i>Nature</i> , 2000 , 404, 986-90	50.4	340
45	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	3.9	273
44	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	5.3	242
43	The heterogeneous Iceland plume: Nd-Sr-O isotopes and trace element constraints. <i>Journal of Geophysical Research</i> , 1993 , 98, 15833		241
42	Ancient, highly heterogeneous mantle beneath Gakkel ridge, Arctic Ocean. <i>Nature</i> , 2008 , 452, 311-6	50.4	236
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	3.6	235
40	The Amount of Recycled Crust in Sources of Mantle-Derived Melts. <i>Science</i> , 2007 , 316, 412-417	33.3	210
39	Oxygen isotope constraints on the sources of Hawaiian volcanism. <i>Earth and Planetary Science Letters</i> , 1996 , 144, 453-467	5.3	186
38	Ba, Rb and Cs in the Earth's Mantle. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1983 , 38, 256-266	1.4	164

37	Fossil plume head beneath the Arabian lithosphere?. <i>Earth and Planetary Science Letters</i> , 1992 , 114, 193-209	3.9	157
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	5.3	155
35	Early crust on top of the Earth's core. <i>Physics of the Earth and Planetary Interiors</i> , 2005 , 148, 109-130	2.3	144
34	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	5.5	120
33	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	3.6	115
32	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	3.5	114
31	Multi-stage melt-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	3.5	95
30	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	4.2	86
29	Sr-Nd-Pb isotope evidence against plume-asthenosphere mixing north of Iceland. <i>Earth and Planetary Science Letters</i> , 1991 , 107, 243-255	5.3	80
28	Dynamics and internal structure of the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 231-240	5.3	76
27	Significance of large, refractory dunite bodies in the upper mantle of the Bay of Islands Ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4,	3.6	75
26	Sources of Anfengshan basalts: Subducted lower crust in the Sulu UHP belt, China. <i>Earth and Planetary Science Letters</i> , 2009 , 286, 426-435	5.3	72
25	A young source for the Hawaiian plume. <i>Nature</i> , 2011 , 476, 434-7	5.4	67
24	Dynamics and internal structure of a lower mantle plume conduit. <i>Earth and Planetary Science Letters</i> , 2009 , 282, 314-322	5.3	65
23	Origin of MORB enrichment and relative trace element compatibilities along the Mid-Atlantic Ridge between 10°N and 24°N. <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	64
22	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	5.3	61
21	Depth of formation of subcontinental off-craton peridotites. <i>Earth and Planetary Science Letters</i> , 2007 , 261, 620-634	5.3	59
20	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	3.5	56

19	A quantitative link between recycling and osmium isotopes. <i>Science</i> , 2008 , 321, 536	33.3	52
18	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	3.5	50
17	U?Th?Ra systematics in Kilauea and Mauna Loa basalts, Hawaii. <i>Chemical Geology</i> , 1994 , 116, 163-180	4.2	45
16	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	11.5	42
15	Geochemistry: An Introduction 2003 ,		42
14	187Os-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	5.3	40
13	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	5.5	38
12	Pyroxenite Layers in the Northern Apennines Upper Mantle (Italy) Generation by Pyroxenite Melting and Melt Infiltration. <i>Journal of Petrology</i> , 2016 , 57, 625-653	3.9	35
11	Isotopic equilibrium between mantle peridotite and melt: Evidence from the Corsica ophiolite. <i>Earth and Planetary Science Letters</i> , 2009 , 288, 601-610	5.3	32
10	Meter-scale Nd isotopic heterogeneity in pyroxenite-bearing Ligurian peridotites encompasses global-scale upper mantle variability. <i>Geology</i> , 2013 , 41, 1055-1058	5	31
9	Primary positive Eu anomaly in clinopyroxenes of low-crust gabbroic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 2363-2370	5.5	30
8	The mafic-ultramafic complex near Finero (Ivrea-Verbano Zone), I. Chemistry of MORB-like magmas. <i>Chemical Geology</i> , 1997 , 140, 207-222	4.2	24
7	Displaced helium and carbon in the Hawaiian plume. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 226-236	5.3	22
6	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	2.8	18
5	Lead isotopes and the age of the Earth a geochemical accident. <i>Geological Society Special Publication</i> , 2001 , 190, 223-236	1.7	11
4	Dynamics of rheological heterogeneities in mantle plumes. <i>Earth and Planetary Science Letters</i> , 2018 , 499, 74-82	5.3	10
3	Geodynamic Setting of the Tertiary Hoheifel Volcanism (Germany), Part II: Geochemistry and Sr, Nd and Pb Isotopic Compositions 2007 , 207-239		7
2	Nephelinites in eastern China originating from the mantle transition zone. <i>Chemical Geology</i> , 2021 , 576, 120276	4.2	4

- 1 Mass conservation [Elemental and isotopic fractionation] **2003**, 23-46