Albrecht W Hofmann

List of Publications by Year
in descending order

58 papers	13,176 citations	71102 41 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	5347 citing authors

#	Article	IF	Citations
1	Chemical differentiation of the Earth: the relationship between mantle, continental crust, and oceanic crust. Earth and Planetary Science Letters, 1988, 90, 297-314.	4.4	2,891
2	Mantle plumes from ancient oceanic crust. Earth and Planetary Science Letters, 1982, 57, 421-436.	4.4	1,367
3	An olivine-free mantle source of Hawaiian shield basalts. Nature, 2005, 434, 590-597.	27.8	942
4	himu-em: The French Polynesian connection. Earth and Planetary Science Letters, 1992, 110, 99-119.	4.4	589
5	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	563
6	Coupled major and trace elements as indicators of the extent of melting in mid-ocean-ridge peridotites. Nature, 2001, 410, 677-681.	27.8	528
7	FOZO, HIMU, and the rest of the mantle zoo. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	512
8	Segregation of subducted oceanic crust in the convecting mantle. Journal of Geophysical Research, 1994, 99, 19867-19884.	3.3	477
9	The Amount of Recycled Crust in Sources of Mantle-Derived Melts. Science, 2007, 316, 412-417.	12.6	470
10	Recycled oceanic crust observed in â€˜ghost plagioclaseâ€™ within the source of Mauna Loa lavas. Nature, 2000, 404, 986-990.	27.8	366
11	Garnet-field Melting and Late-stage Refertilization in 'Residual' Abyssal Peridotites from the Central Indian Ridge. Journal of Petrology, 2002, 43, 2305-2338.	2.8	321
12	The heterogeneous Iceland plume: Ndâ€Srâ€O isotopes and trace element constraints. Journal of Geophysical Research, 1993, 98, 15833-15850.	3.3	288
13	Ancient, highly heterogeneous mantle beneath Gakkel ridge, Arctic Ocean. Nature, 2008, 452, 311-316.	27.8	288
14	The Preparation and Preliminary Characterisation of Eight Geological MPI-DING Reference Glasses for In-Situ Microanalysis. Geostandards and Geoanalytical Research, 2000, 24, 87-133.	3.1	286
15	The role of sediment recycling in EM-1 inferred from Os, Pb, Hf, Nd, Sr isotope and trace element systematics of the Pitcairn hotspot. Earth and Planetary Science Letters, 2002, 196, 197-212.	4.4	274
16	Oxygen isotope constraints on the sources of Hawaiian volcanism. Earth and Planetary Science Letters, 1996, 144, 453-467.	4.4	202
17	Ba, Rb and Cs in the Earth's Mantle. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1983, 38, 256-266.	1.5	191
18	Fossil plume head beneath the Arabian lithosphere?. Earth and Planetary Science Letters, 1992, 114, 193-209.	4.4	178

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19	Early crust on top of the Earth's core. Physics of the Earth and Planetary Interiors, 2005, 148, 109-130.	1.9	176
20	Melt percolation monitored by Os isotopes and HSE abundances: a case study from the mantle section of the Troodos Ophiolite. Earth and Planetary Science Letters, 2002, 204, 385-402.	4.4	169
21	Contrasting geochemical patterns in the 3.7â€“3.8 Ga pillow basalt cores and rims, Isua greenstone belt, Southwest Greenland: implications for postmagmatic alteration processes. Geochimica Et Cosmochimica Acta, 2003, 67, 441-457.	3.9	137
22	The 320 kyr Pb isotope evolution of Mauna Kea lavas recorded in the HSDP-2 drill core. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	129
23	Case studies on the origin of basalt: III. Petrogenesis of the Mauna Ulu eruption, Kilauea, 1969?1971. Contributions To Mineralogy and Petrology, 1984, 88, 24-35.	3.1	128
24	Multi-stage meltâ€“rock interaction in the Mt. Maggiore (Corsica, France) ophiolitic peridotites: microstructural and geochemical evidence. Contributions To Mineralogy and Petrology, 2008, 156, 453-475.	3.1	108
25	Partitioning of U, Pb, Cs, Yb, Hf, Re and Os between chromian diopsidic pyroxene and haplobasaltic liquid. Chemical Geology, 1987, 62, 191-208.	3.3	92
26	Significance of large, refractory dunite bodies in the upper mantle of the Bay of Islands Ophiolite. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	92
27	Sr-Nd-Pb isotope evidence against plume-asthenosphere mixing north of Iceland. Earth and Planetary Science Letters, 1991, 107, 243-255.	4.4	87
28	Sources of Anfengshan basalts: Subducted lower crust in the Sulu UHP belt, China. Earth and Planetary Science Letters, 2009, 286, 426-435.	4.4	87
29	Dynamics and internal structure of the Hawaiian plume. Earth and Planetary Science Letters, 2010, 295, 231-240.	4.4	86
30	A young source for the Hawaiian plume. Nature, 2011, 476, 434-437.	27.8	82
31	Dynamics and internal structure of a lower mantle plume conduit. Earth and Planetary Science Letters, 2009, 282, 314-322.	4.4	76
32	Recycled ancient ghost carbonate in the Pitcairn mantle plume. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8682-8687.	7.1	73
33	Origin of MORB enrichment and relative trace element compatibilities along the Mid-Atlantic Ridge between 10Â° and 24Â°N. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	72
34	Non-chondritic HSE budget in Earth's upper mantle evidenced by abyssal peridotites from Gakkel ridge (Arctic Ocean). Earth and Planetary Science Letters, 2009, 283, 122-132.	4.4	72
35	Depth of formation of subcontinental off-craton peridotites. Earth and Planetary Science Letters, 2007, 261, 620-634.	4.4	71
36	Geochemistry of peridotites and mafic igneous rocks from the Central Dinaric Ophiolite Belt, Yugoslavia. Contributions To Mineralogy and Petrology, 1991, 106, 201-216.	3.1	66

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37	The relationship between websterite and peridotite in the Balmuccia peridotite massif (NW Italy) as revealed by trace element variations in clinopyroxene. Contributions To Mineralogy and Petrology, 1995, 121, 275-288.	3.1	65
38	A Quantitative Link Between Recycling and Osmium Isotopes. Science, 2008, 321, 536-536.	12.6	57
39	Uî—¸Thî—¸Ra systematics in Kilauea and Mauna Loa basalts, Hawaii. Chemical Geology, 1994, 116, 163-180.	3.3	49
40	Trace element distribution between clinopyroxene and garnet in gabbroic rocks of the deep crust: An ion microprobe study. Geochimica Et Cosmochimica Acta, 1992, 56, 2371-2385.	3.9	45
41	187 Os-enriched domain in an Archean mantle plume: evidence from 2.8 Ga komatiites of the Kostomuksha greenstone belt, NW Baltic Shield. Earth and Planetary Science Letters, 2001, 186, 513-526.	4.4	45
42	Pyroxenite Layers in the Northern Apenninesâ€™ Upper Mantle (Italy)â€"Generation by Pyroxenite Melting and Melt Infiltration. Journal of Petrology, 2016, 57, 625-653.	2.8	41
43	Primary positive Eu anomaly in clinopyroxenes of low-crust gabbroic rocks. Geochimica Et Cosmochimica Acta, 1992, 56, 2363-2370.	3.9	40
44	Meter-scale Nd isotopic heterogeneity in pyroxenite-bearing Ligurian peridotites encompasses global-scale upper mantle variability. Geology, 2013, 41, 1055-1058.	4.4	38
45	Isotopic equilibrium between mantle peridotite and melt: Evidence from the Corsica ophiolite. Earth and Planetary Science Letters, 2009, 288, 601-610.	4.4	36
46	Archean cratonic mantle recycled at a mid-ocean ridge. Science Advances, 2022, 8, .	10.3	30
47	The mafic-ultramafic complex near Finero (Ivrea-Verbano Zone), I. Chemistry of MORB-like magmas. Chemical Geology, 1997, 140, 207-222.	3.3	29
48	Displaced helium and carbon in the Hawaiian plume. Earth and Planetary Science Letters, 2011, 312, 226-236.	4.4	26
49	Nephelinites in eastern China originating from the mantle transition zone. Chemical Geology, 2021, 576, 120276.	3.3	22
50	Compositional diversity among primitive lavas of Mauritius, Indian Ocean: Implications for mantle sources. Journal of Volcanology and Geothermal Research, 2007, 164, 76-94.	2.1	19
51	Dynamics of rheological heterogeneities in mantle plumes. Earth and Planetary Science Letters, 2018, 499, 74-82.	4.4	18
52	Lead isotopes and the age of the Earth â€" a geochemical accident. Geological Society Special Publication, 2001, 190, 223-236.	1.3	13
53	Geodynamic Setting of the Tertiary Hocheifel Volcanism (Germany), Part II: Geochemistry and Sr, Nd and Pb Isotopic Compositions. , 2007, , 207-239.		8
54	Just add water. Nature, 2003, 425, 24-25.	27.8	6

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55	Mantle Plumes. Encyclopedia of Earth Sciences Series, 2011, , 857-869.	0.1	5
56	Mass conservation â€“ elemental and isotopic fractionation. , 2003, , 23-46.		0
57	Mantle Plumes. Encyclopedia of Earth Sciences Series, 2021, , 1094-1107.	0.1	0
58	Mantle Plumes. Encyclopedia of Earth Sciences Series, 2020, , 1-13.	0.1	0