

Frederick A Frey

List of Publications by Year in descending order

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61
papers

8,599
citations

61984

43
h-index

123424

61
g-index

61
all docs

61
docs citations

61
times ranked

3665
citing authors

#	ARTICLE	IF	CITATIONS
1	Basaltic rocks from the Andean Southern Volcanic Zone: Insights from the comparison of along-strike and small-scale geochemical variations and their sources. <i>Lithos</i> , 2016, 258-259, 115-132.	1.4	56
2	Compositional variation within thick (>10 m) flow units of Mauna Kea Volcano cored by the Hawaii Scientific Drilling Project. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 182-197.	3.9	6
3	The geochemical components that distinguish Loa- and Kea-trend Hawaiian shield lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 160-181.	3.9	21
4	Compositional heterogeneity of the Sugarloaf melilite nephelinite flow, Honolulu Volcanics, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 251-277.	3.9	18
5	Depleted components in the source of hotspot magmas: Evidence from the Ninetyeast Ridge (Kerguelen). <i>Earth and Planetary Science Letters</i> , 2015, 426, 293-304.	4.4	24
6	The distribution of geochemical heterogeneities in the source of Hawaiian shield lavas as revealed by a transect across the strike of the Loa and Kea spatial trends: East Molokai to West Molokai to Penguin Bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 214-237.	3.9	17
7	The Influence of Mantle Plumes in Generation of Indian Oceanic Crust. <i>Geophysical Monograph Series</i> , 2013, , 57-89.	0.1	17
8	Compositional diversity of Mauna Kea shield lavas recovered by the Hawaii Scientific Drilling Project: Inferences on source lithology, magma supply, and the role of multiple volcanoes. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	36
9	Tectonics of the Ninetyeast Ridge derived from spreading records in adjacent oceanic basins and age constraints of the ridge. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	69
10	Ancient carbonate sedimentary signature in the Hawaiian plume: Evidence from Mahukona volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	29
11	The Val Gabbro Plutonic Suite: A Sub-volcanic Intrusion Emplaced at the End of Flood Basalt Volcanism on the Kerguelen Archipelago. <i>Journal of Petrology</i> , 2008, 49, 79-105.	2.8	19
12	Iron/manganese ratio and manganese content in shield lavas from Koâ™olau Volcano, Hawaiiâ™i. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4557-4569.	3.9	27
13	Geochemical characteristics of West Molokai shieldâ€and postshieldâ€stage lavas: Constraints on Hawaiian plume models. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	48
14	Flood basalts from Mt. Capitole in the central Kerguelen Archipelago: Insights into the growth of the archipelago and source components contributing to plume-related volcanism. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	17
15	The amount of recycled crust in sources of mantle-derived melts. <i>Science</i> , 2007, 316, 412-7.	12.6	822
16	Recycled oceanic crust in the Hawaiian Plume: evidence from temporal geochemical variations within the Koolau Shield. <i>Contributions To Mineralogy and Petrology</i> , 2005, 149, 556-575.	3.1	89
17	Role of lithosphereâ€asthenosphere interaction in the genesis of Quaternary alkali and tholeiitic basalts from Datong, western North China Craton. <i>Chemical Geology</i> , 2005, 224, 247-271.	3.3	266
18	East Molokai and other Kea-trend volcanoes: Magmatic processes and sources as they migrate away from the Hawaiian hot spot. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	37

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19	Enriched components in the Hawaiian plume: Evidence from Kahoolawe Volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	47
20	Geologic, geochemical, and geophysical consequences of plume involvement in the Emeishan flood-basalt province. <i>Geology</i> , 2004, 32, 917.	4.4	405
21	Lithium isotope geochemistry of the Hawaiian plume: Results from the Hawaii Scientific Drilling Project and Koolau Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	99
22	Trace of the Kerguelen mantle plume: Evidence from seamounts between the Kerguelen Archipelago and Heard Island, Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1-27.	2.5	56
23	Relationship between the early Kerguelen plume and continental flood basalts of the paleo-Eastern Gondwanan margins. <i>Earth and Planetary Science Letters</i> , 2002, 197, 35-50.	4.4	99
24	Origin of continental components in Indian Ocean basalts: Evidence from Elan Bank (Kerguelen) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50 5	4.4	59
25	Mineral chemistry of submarine lavas from Hilo Ridge, Hawaii: implications for magmatic processes within Hawaiian rift zones. <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 355-372.	3.1	39
26	Petrogenesis of the Flood Basalts Forming the Northern Kerguelen Archipelago: Implications for the Kerguelen Plume. <i>Journal of Petrology</i> , 1998, 39, 711-748.	2.8	21
27	Petrogenesis of the Bunbury Basalt, Western Australia: interaction between the Kerguelen plume and Gondwana lithosphere?. <i>Earth and Planetary Science Letters</i> , 1996, 144, 163-183.	4.4	113
28	Role of the Kerguelen Plume in generating the eastern Indian Ocean seafloor. <i>Journal of Geophysical Research</i> , 1996, 101, 13831-13849.	3.3	67
29	Temporal evolution of the kerguelen plume: Geochemical evidence from 38 to 82 ma lavas forming the Ninetyeast ridge. <i>Contributions To Mineralogy and Petrology</i> , 1995, 121, 12-28.	3.1	63
30	Submarine lavas from Mauna Kea Volcano, Hawaii: Implications for Hawaiian shield stage processes. <i>Journal of Geophysical Research</i> , 1994, 99, 15577.	3.3	52
31	Evolution of the lithosphere beneath Oahu, Hawaii: rare earth element abundances in mantle xenoliths. <i>Earth and Planetary Science Letters</i> , 1993, 119, 53-69.	4.4	68
32	Recent lavas from the Andean volcanic front (33 to 42°S); Interpretations of along-arc compositional variations. <i>Special Paper of the Geological Society of America</i> , 1991, , 57-78.	0.5	52
33	Geochemistry of Hannuoba basalts, eastern China: Constraints on the origin of continental alkalic and tholeiitic basalt. <i>Chemical Geology</i> , 1990, 88, 1-33.	3.3	188
34	Isotopic characteristics of Hannuoba basalts, eastern China: Implications for their petrogenesis and the composition of subcontinental mantle. <i>Chemical Geology</i> , 1990, 88, 35-52.	3.3	179
35	Geochemical variations in Andean basaltic and silicic lavas from the Villarrica-Lanin volcanic chain (39.5°; 1/2 S): an evaluation of source heterogeneity, fractional crystallization and crustal assimilation. <i>Contributions To Mineralogy and Petrology</i> , 1989, 103, 361-386.	3.1	161
36	Geochemistry of peridotite xenoliths in basalt from Hannuoba, Eastern China: Implications for subcontinental mantle heterogeneity. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 97-113.	3.9	231

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37	Evolution of the upper mantle beneath southeast Australia: geochemical evidence from peridotite xenoliths in Mount Leura basanite. <i>Earth and Planetary Science Letters</i> , 1989, 93, 195-209.	4.4	32
38	Geochemical evolution of Kohala Volcano, Hawaii. <i>Contributions To Mineralogy and Petrology</i> , 1987, 95, 100-113.	3.1	62
39	Multiple sources for basaltic arc rocks from the southern volcanic zone of the Andes (34°-41°S): Trace element and isotopic evidence for contributions from subducted oceanic crust, mantle, and continental crust. <i>Journal of Geophysical Research</i> , 1986, 91, 5963-5983.	3.3	334
40	Petrology of volcanic rocks from Kaula Island, Hawaii. <i>Contributions To Mineralogy and Petrology</i> , 1986, 94, 461-471.	3.1	47
41	Multistage mantle processes. <i>Geology</i> , 1985, 13, 742.	4.4	1
42	Trace element and isotopic geochemistry of lavas from Haleakala Volcano, east Maui, Hawaii: Implications for the origin of Hawaiian basalts. <i>Journal of Geophysical Research</i> , 1985, 90, 8743-8768.	3.3	292
43	The Ronda high temperature peridotite: Geochemistry and petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 2469-2491.	3.9	306
44	Petrogenesis of the Laguna del Maule volcanic complex, Chile (36½ S). <i>Contributions To Mineralogy and Petrology</i> , 1984, 88, 133-149.	3.1	86
45	Geochemical characteristics of the south Tuscany (Italy) volcanic province: Constraints on lava petrogenesis. <i>Chemical Geology</i> , 1984, 43, 203-221.	3.3	52
46	Geochemistry of tholeiitic and alkalic lavas from the Koolau Range, Oahu, Hawaii: Implications for Hawaiian volcanism. <i>Earth and Planetary Science Letters</i> , 1984, 69, 141-158.	4.4	146
47	Rare Earth Element Abundances in Upper Mantle Rocks. <i>Developments in Geochemistry</i> , 1984, 2, 153-203.	0.1	83
48	Origin of Hawaiian tholeiite and alkalic basalt. <i>Nature</i> , 1983, 302, 785-789.	27.8	220
49	Geochemistry of diverse basalt types from Loihi Seamount, Hawaii: petrogenetic implications. <i>Earth and Planetary Science Letters</i> , 1983, 66, 337-355.	4.4	169
50	Petrology and Trace Element Geochemistry of the Honolulu Volcanics, Oahu: Implications for the Oceanic Mantle below Hawaii. <i>Journal of Petrology</i> , 1982, 23, 447-504.	2.8	472
51	Geochemical characteristics of boninite series volcanics: implications for their source. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 2099-2115.	3.9	481
52	Petrology, geochemistry and original tectonic setting of basalts from the Mozambique Basin and Ridge (DSDP Sites 248, 249 and 250), and from the Southwest Indian Ridge (DSDP Site 251). <i>Marine Geology</i> , 1982, 48, 175-195.	2.1	19
53	The origin of lavas from the Ninetyeast Ridge, eastern Indian Ocean: An evaluation of fractional crystallization models. <i>Journal of Geophysical Research</i> , 1980, 85, 4405-4420.	3.3	23
54	Tholeiitic and alkali basalts from the Mid-Atlantic Ridge at 43° N. <i>Contributions To Mineralogy and Petrology</i> , 1979, 70, 127-141.	3.1	85

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55	Geochemical characteristics of central Chile (33°S-34°S) granitoids. <i>Contributions To Mineralogy and Petrology</i> , 1979, 70, 439-450.	3.1	46
56	Distribution of trace elements between garnet megacrysts and host volcanic liquids of kimberlitic to rhyolitic composition. <i>Geochimica Et Cosmochimica Acta</i> , 1978, 42, 771-787.	3.9	330
57	Ultramafic inclusions from San Carlos, Arizona: Petrologic and geochemical data bearing on their petrogenesis. <i>Earth and Planetary Science Letters</i> , 1978, 38, 129-176.	4.4	852
58	Geochemistry and petrology of dredged basalts from the Bouvet triple junction, South Atlantic. <i>Geochimica Et Cosmochimica Acta</i> , 1977, 41, 1105-1118.	3.9	66
59	The mineralogy, geochemistry and origin of lherzolite inclusions in Victorian basanites. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 1023-1059.	3.9	655
60	An experimental study of the partitioning of a rare earth element (Gd) in the system diopside-aqueous vapour. <i>Geochimica Et Cosmochimica Acta</i> , 1974, 38, 545-565.	3.9	55
61	Rare-Earth abundances in some ultramafic rocks. <i>Journal of Geophysical Research</i> , 1971, 76, 2057-2070.	3.3	68