

Stanley R Hart

List of Publications by Year in descending order

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67
papers

15,519
citations

38742

50
h-index

110387

64
g-index

67
all docs

67
docs citations

67
times ranked

6210
citing authors

#	ARTICLE	IF	CITATIONS
1	A large-scale isotope anomaly in the Southern Hemisphere mantle. <i>Nature</i> , 1984, 309, 753-757.	27.8	2,275
2	Major and trace element composition of the depleted MORB mantle (DMM). <i>Earth and Planetary Science Letters</i> , 2005, 231, 53-72.	4.4	2,237
3	Experimental cpx/melt partitioning of 24 trace elements. <i>Contributions To Mineralogy and Petrology</i> , 1993, 113, 1-8.	3.1	933
4	Heterogeneous mantle domains: signatures, genesis and mixing chronologies. <i>Earth and Planetary Science Letters</i> , 1988, 90, 273-296.	4.4	834
5	In search of a bulk-Earth composition. <i>Chemical Geology</i> , 1986, 57, 247-267.	3.3	595
6	Nickel partitioning between olivine and silicate melt. <i>Earth and Planetary Science Letters</i> , 1978, 40, 203-219.	4.4	546
7	Silica enrichment in the continental upper mantle via melt/rock reaction. <i>Earth and Planetary Science Letters</i> , 1998, 164, 387-406.	4.4	476
8	ReOs isotope systematics of HIMU and EMII oceanic island basalts from the south Pacific Ocean. <i>Earth and Planetary Science Letters</i> , 1993, 114, 353-371.	4.4	434
9	Alteration of basaltic glass: Mechanisms and significance for the oceanic crust-seawater budget. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 337-350.	3.9	429
10	Evidence for hotspot-related carbonatite metasomatism in the oceanic upper mantle. <i>Nature</i> , 1993, 365, 221-227.	27.8	370
11	Large scale isotopic Sr, Nd and O isotopic anatomy of altered oceanic crust: DSDP/ODP sites 417/418. <i>Earth and Planetary Science Letters</i> , 1995, 130, 169-185.	4.4	324
12	Helium isotopic variations in volcanic rocks from Loihi Seamount and the Island of Hawaii. <i>Earth and Planetary Science Letters</i> , 1983, 66, 388-406.	4.4	303
13	The hafnium paradox and the role of garnet in the source of mid-ocean-ridge basalts. <i>Nature</i> , 1989, 342, 420-422.	27.8	281
14	The return of subducted continental crust in Samoan lavas. <i>Nature</i> , 2007, 448, 684-687.	27.8	280
15	Strontium and samarium diffusion in diopside. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1589-1608.	3.9	274
16	Fluid dynamic and geochemical aspects of entrainment in mantle plumes. <i>Journal of Geophysical Research</i> , 1994, 99, 24275-24300.	3.3	258
17	The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 4059-4080.	3.9	255
18	Oxygen isotope variations in ocean island basalt phenocrysts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2281-2293.	3.9	223

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19	The control of alkalis and uranium in seawater by ocean crust alteration. <i>Earth and Planetary Science Letters</i> , 1982, 58, 202-212.	4.4	222
20	The mantle sources of ocean ridges, islands and arcs: the Hf-isotope connection. <i>Earth and Planetary Science Letters</i> , 1991, 104, 364-380.	4.4	213
21	Cretaceous ocean crust at DSDP Sites 417 and 418: Carbon uptake from weathering versus loss by magmatic outgassing. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 3091-3094.	3.9	199
22	Alteration of the oceanic crust: Processes and timing. <i>Earth and Planetary Science Letters</i> , 1981, 52, 311-327.	4.4	183
23	The boron isotopic composition of altered oceanic crust. <i>Chemical Geology</i> , 1995, 126, 119-135.	3.3	183
24	Rhenium abundances and systematics in oceanic basalts. <i>Chemical Geology</i> , 1997, 139, 185-205.	3.3	176
25	Kinetic control of skeletal Sr/Ca in a symbiotic coral: Implications for the paleotemperature proxy. <i>Paleoceanography</i> , 2001, 16, 20-26.	3.0	176
26	The geochemistry and evolution of early precambrian mantle. <i>Contributions To Mineralogy and Petrology</i> , 1977, 61, 109-128.	3.1	173
27	Volatile and trace elements in basaltic glasses from Samoa: Implications for water distribution in the mantle. <i>Earth and Planetary Science Letters</i> , 2006, 241, 932-951.	4.4	150
28	An ion probe study of annual cycles of Sr/Ca and other trace elements in corals. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3075-3084.	3.9	148
29	Kimberlite-borne garnet peridotite xenoliths from old enriched subcontinental lithosphere. <i>Earth and Planetary Science Letters</i> , 1985, 75, 116-128.	4.4	144
30	Geochemistry of hydrothermally altered oceanic crust: DSDP/ODP Hole 504B - Implications for seawater-crust exchange budgets and Sr- and Pb-isotopic evolution of the mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	143
31	Strontium isotopes in melt inclusions from Samoan basalts: Implications for heterogeneity in the Samoan plume. <i>Earth and Planetary Science Letters</i> , 2006, 245, 260-277.	4.4	128
32	Helium solubility in olivine and implications for high $^3\text{He}/^4\text{He}$ in ocean island basalts. <i>Nature</i> , 2005, 437, 1140-1143.	27.8	125
33	Sr, Nd and Pb isotopic and REE geochemistry of St. Paul's Rocks: the metamorphic and metasomatic development of an alkali basalt mantle source. <i>Contributions To Mineralogy and Petrology</i> , 1984, 85, 376-390.	3.1	114
34	Nd and Sr isotope evidence linking mid-ocean-ridge basalts and abyssal peridotites. <i>Nature</i> , 1994, 371, 57-60.	27.8	109
35	Hobbs Coast Cenozoic volcanism: Implications for the West Antarctic rift system. <i>Chemical Geology</i> , 1997, 139, 223-248.	3.3	100
36	Constraints on melt migration from mantle plumes: A trace element study of peridotite xenoliths from Savai'i, Western Samoa. <i>Journal of Geophysical Research</i> , 1994, 99, 24301-24321.	3.3	86

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37	Agents of low temperature ocean crust alteration. Contributions To Mineralogy and Petrology, 1981, 77, 150-157.	3.1	85
38	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6448-6453.	7.1	81
39	Rhenium-osmium isotope systematics and platinum group element concentrations in oceanic crust from DSDP/ODP Sites 504 and 417/418. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	80
40	Geochemistry of Late Cenozoic basalts from the Crary Mountains: characterization of mantle sources in Marie Byrd Land, Antarctica. Chemical Geology, 2000, 165, 215-241.	3.3	77
41	Samoan hot spot track on a "hot spot highway" Implications for mantle plumes and a deep Samoan mantle source. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	77
42	Globally elevated titanium, tantalum, and niobium (TITAN) in ocean island basalts with high $^{3}\text{He}/^{4}\text{He}$. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	73
43	Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	69
44	Lithium isotope systematics of lavas from the Cook "Austral Islands: Constraints on the origin of HIMU mantle. Earth and Planetary Science Letters, 2009, 277, 433-442.	4.4	67
45	Osmium-isotope ratios of platinum-group minerals associated with ultramafic intrusions: Os-isotopic evolution of the oceanic mantle. Earth and Planetary Science Letters, 1991, 107, 499-514.	4.4	66
46	Sr, Nd, and Pb isotopic character of Tertiary basalts from southwest Poland. Geochimica Et Cosmochimica Acta, 1989, 53, 2689-2696.	3.9	61
47	Growth-step-selective incorporation of boron on the calcite surface. Geochimica Et Cosmochimica Acta, 1998, 62, 2915-2922.	3.9	61
48	Os Partitioning Between Phases in Lherzolite and Basalt. Geophysical Monograph Series, 0, , 123-134.	0.1	59
49	Age systematics of two young en echelon Samoan volcanic trails. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	56
50	Vein mineral ages of old oceanic crust. Journal of Geophysical Research, 1980, 85, 7195-7200.	3.3	54
51	Geochemical evolution of the New England seamount chain: Isotopic and trace-element constraints. Chemical Geology, 1987, 64, 35-54.	3.3	53
52	Deglacial sea surface temperatures of the western tropical Pacific: A new look at old coral. Paleoceanography, 2004, 19, n/a-n/a.	3.0	51
53	Cenozoic volcanism in Antarctica: Jones Mountains and Peter I Island. Geochimica Et Cosmochimica Acta, 1995, 59, 3379-3388.	3.9	50
54	Contribution of metapelitic sediments to the composition, heat production, and seismic velocity of the lower crust of southern New Mexico, U.S.A.. Earth and Planetary Science Letters, 1989, 95, 367-381.	4.4	49

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55	Quantitative analysis of silicates by ion microprobe. International Journal of Mass Spectrometry and Ion Physics, 1982, 44, 231-255.	1.3	45
56	Helium and neon isotopes in phenocrysts from Samoan lavas: Evidence for heterogeneity in the terrestrial high $^3\text{He}/^4\text{He}$ mantle. Earth and Planetary Science Letters, 2009, 287, 519-528.	4.4	44
57	Fluid circulation in the oceanic crust: Contrast between volcanic and plutonic regimes. Journal of Geophysical Research, 1994, 99, 3163-3173.	3.3	30
58	The $^{87}\text{Sr}/^{86}\text{Sr}$ and $^{143}\text{Nd}/^{144}\text{Nd}$ disequilibrium between Polynesian hot spot lavas and the clinopyroxenes they host: Evidence complementing isotopic disequilibrium in melt inclusions. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	25
59	Ta'u and Ofu/Olosega volcanoes: The "Twin Sisters" of Samoa, their P, T, X melting regime, and global implications. Geochemistry, Geophysics, Geosystems, 2014, 15, 2301-2318.	2.5	25
60	Melt and source mantle compositions in the Late Archaean: A study of strontium and neodymium isotope and trace elements in clinopyroxenes from shoshonitic alkaline rocks. Geochimica Et Cosmochimica Acta, 1996, 60, 4551-4562.	3.9	24
61	Reply to D.B. Clarke and M.J. O'Hara, "nickel, and the existence of high-MgO liquids in nature" Earth and Planetary Science Letters, 1979, 44, 159-161.	4.4	15
62	Temperature and velocity measurements of a rising thermal plume. Geochemistry, Geophysics, Geosystems, 2015, 16, 579-599.	2.5	15
63	Experimental determination of Pb partitioning between sulfide melt and basalt melt as a function of P, T and X. Geochimica Et Cosmochimica Acta, 2016, 185, 9-20.	3.9	15
64	Reconciling the shadow of a subduction signature with rift geochemistry and tectonic environment in Eastern Marie Byrd Land, Antarctica. Lithos, 2016, 260, 134-153.	1.4	10
65	Petrogenesis of Lava from Christmas Island, Northeast Indian Ocean: Implications for the Nature of Recycled Components in Non-Plume Intraplate Settings. Geosciences (Switzerland), 2022, 12, 118.	2.2	3
66	Response : Mantle Plumes and Mantle Sources. Science, 1992, 258, 821-822.	12.6	0
67	<i>Response</i> : Mantle Plumes and Mantle Sources. Science, 1992, 258, 821-822.	12.6	0