

# Stanley R Hart

## List of Publications by Year in descending order

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67  
papers

15,519  
citations

44444

50  
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124990

64  
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67  
all docs

67  
docs citations

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times ranked

7022  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petrogenesis of Lava from Christmas Island, Northeast Indian Ocean: Implications for the Nature of Recycled Components in Non-Plume Intraplate Settings. <i>Geosciences (Switzerland)</i> , 2022, 12, 118.	1.0	3
2	Experimental determination of Pb partitioning between sulfide melt and basalt melt as a function of P, T and X. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 9-20.	1.6	15
3	Reconciling the shadow of a subduction signature with rift geochemistry and tectonic environment in Eastern Marie Byrd Land, Antarctica. <i>Lithos</i> , 2016, 260, 134-153.	0.6	10
4	Temperature and velocity measurements of a rising thermal plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 579-599.	1.0	15
5	Ta'u and Ofu/Olosega volcanoes: The "Twin Sisters" of Samoa, their P, T, X melting regime, and global implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2301-2318.	1.0	25
6	Age systematics of two young en echelon Samoan volcanic trails. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	56
7	Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	69
8	Samoa hot spot track on a "hot spot highway" Implications for mantle plumes and a deep Samoan mantle source. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	77
9	Lithium isotope systematics of lavas from the Cook "Austral Islands: Constraints on the origin of HIMU mantle. <i>Earth and Planetary Science Letters</i> , 2009, 277, 433-442.	1.8	67
10	Helium and neon isotopes in phenocrysts from Samoan lavas: Evidence for heterogeneity in the terrestrial high $^3\text{He}/^4\text{He}$ mantle. <i>Earth and Planetary Science Letters</i> , 2009, 287, 519-528.	1.8	44
11	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. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	25
12	Globally elevated titanium, tantalum, and niobium (TITAN) in ocean island basalts with high $^3\text{He}/^4\text{He}$ . <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	73
13	The return of subducted continental crust in Samoan lavas. <i>Nature</i> , 2007, 448, 684-687.	13.7	280
14	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.	1.8	150
15	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.	1.8	128
16	Vailulu'u Seamount, Samoa: Life and death on an active submarine volcano. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6448-6453.	3.3	81
17	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.	13.7	125
18	Major and trace element composition of the depleted MORB mantle (DMM). <i>Earth and Planetary Science Letters</i> , 2005, 231, 53-72.	1.8	2,237

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19	Deglacial sea surface temperatures of the western tropical Pacific: A new look at old coral. <i>Paleoceanography</i> , 2004, 19, n/a-n/a.	3.0	51
20	Rhenium-osmium isotope systematics and platinum group element concentrations in oceanic crust from DSDP/ODP Sites 504 and 417/418. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	80
21	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, .	1.0	143
22	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
23	Geochemistry of Late Cenozoic basalts from the Crary Mountains: characterization of mantle sources in Marie Byrd Land, Antarctica. <i>Chemical Geology</i> , 2000, 165, 215-241.	1.4	77
24	The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 4059-4080.	1.6	255
25	Growth-step-selective incorporation of boron on the calcite surface. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2915-2922.	1.6	61
26	Silica enrichment in the continental upper mantle via melt/rock reaction. <i>Earth and Planetary Science Letters</i> , 1998, 164, 387-406.	1.8	476
27	Oxygen isotope variations in ocean island basalt phenocrysts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 2281-2293.	1.6	223
28	Rhenium abundances and systematics in oceanic basalts. <i>Chemical Geology</i> , 1997, 139, 185-205.	1.4	176
29	Hobbs Coast Cenozoic volcanism: Implications for the West Antarctic rift system. <i>Chemical Geology</i> , 1997, 139, 223-248.	1.4	100
30	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.	1.6	148
31	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. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4551-4562.	1.6	24
32	The boron isotopic composition of altered oceanic crust. <i>Chemical Geology</i> , 1995, 126, 119-135.	1.4	183
33	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.	1.8	324
34	Cenozoic volcanism in Antarctica: Jones Mountains and Peter I Island. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 3379-3388.	1.6	50
35	Fluid dynamic and geochemical aspects of entrainment in mantle plumes. <i>Journal of Geophysical Research</i> , 1994, 99, 24275-24300.	3.3	258
36	Nd and Sr isotope evidence linking mid-ocean-ridge basalts and abyssal peridotites. <i>Nature</i> , 1994, 371, 57-60.	13.7	109

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37	Fluid circulation in the oceanic crust: Contrast between volcanic and plutonic regimes. <i>Journal of Geophysical Research</i> , 1994, 99, 3163-3173.	3.3	30
38	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
39	Experimental cpx/melt partitioning of 24 trace elements. <i>Contributions To Mineralogy and Petrology</i> , 1993, 113, 1-8.	1.2	933
40	Evidence for hotspot-related carbonatite metasomatism in the oceanic upper mantle. <i>Nature</i> , 1993, 365, 221-227.	13.7	370
41	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.	1.8	434
42	Response : Mantle Plumes and Mantle Sources. <i>Science</i> , 1992, 258, 821-822.	6.0	0
43	<i>Response</i> : Mantle Plumes and Mantle Sources. <i>Science</i> , 1992, 258, 821-822.	6.0	0
44	Osmium-isotope ratios of platinum-group minerals associated with ultramafic intrusions: Os-isotopic evolution of the oceanic mantle. <i>Earth and Planetary Science Letters</i> , 1991, 107, 499-514.	1.8	66
45	The mantle sources of ocean ridges, islands and arcs: the Hf-isotope connection. <i>Earth and Planetary Science Letters</i> , 1991, 104, 364-380.	1.8	213
46	The hafnium paradox and the role of garnet in the source of mid-ocean-ridge basalts. <i>Nature</i> , 1989, 342, 420-422.	13.7	281
47	Sr, Nd, and Pb isotopic character of Tertiary basalts from southwest Poland. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2689-2696.	1.6	61
48	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.	1.6	199
49	Contribution of metapelitic sediments to the composition, heat production, and seismic velocity of the lower crust of southern New Mexico, U.S.A.. <i>Earth and Planetary Science Letters</i> , 1989, 95, 367-381.	1.8	49
50	Heterogeneous mantle domains: signatures, genesis and mixing chronologies. <i>Earth and Planetary Science Letters</i> , 1988, 90, 273-296.	1.8	834
51	Geochemical evolution of the New England seamount chain: Isotopic and trace-element constraints. <i>Chemical Geology</i> , 1987, 64, 35-54.	1.4	53
52	In search of a bulk-Earth composition. <i>Chemical Geology</i> , 1986, 57, 247-267.	1.4	595
53	Kimberlite-borne garnet peridotite xenoliths from old enriched subcontinental lithosphere. <i>Earth and Planetary Science Letters</i> , 1985, 75, 116-128.	1.8	144
54	A large-scale isotope anomaly in the Southern Hemisphere mantle. <i>Nature</i> , 1984, 309, 753-757.	13.7	2,275

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55	Sr, Nd and Pb isotopic and REE geochemistry of St. Paul's Rocks: the metamorphic and metasomatic development of an alkali basalt mantle source. Contributions To Mineralogy and Petrology, 1984, 85, 376-390.	1.2	114
56	Strontium and samarium diffusion in diopside. Geochimica Et Cosmochimica Acta, 1984, 48, 1589-1608.	1.6	274
57	Alteration of basaltic glass: Mechanisms and significance for the oceanic crust-seawater budget. Geochimica Et Cosmochimica Acta, 1983, 47, 337-350.	1.6	429
58	Helium isotopic variations in volcanic rocks from Loihi Seamount and the Island of Hawaii. Earth and Planetary Science Letters, 1983, 66, 388-406.	1.8	303
59	The control of alkalis and uranium in seawater by ocean crust alteration. Earth and Planetary Science Letters, 1982, 58, 202-212.	1.8	222
60	Quantitative analysis of silicates by ion microprobe. International Journal of Mass Spectrometry and Ion Physics, 1982, 44, 231-255.	1.3	45
61	Alteration of the oceanic crust: Processes and timing. Earth and Planetary Science Letters, 1981, 52, 311-327.	1.8	183
62	Agents of low temperature ocean crust alteration. Contributions To Mineralogy and Petrology, 1981, 77, 150-157.	1.2	85
63	Vein mineral ages of old oceanic crust. Journal of Geophysical Research, 1980, 85, 7195-7200.	3.3	54
64	Reply to D.B. Clarke and M.J. O'Hara, "Cobalt, nickel, and the existence of high-MgO liquids in nature". Earth and Planetary Science Letters, 1979, 44, 159-161.	1.8	15
65	Nickel partitioning between olivine and silicate melt. Earth and Planetary Science Letters, 1978, 40, 203-219.	1.8	546
66	The geochemistry and evolution of early precambrian mantle. Contributions To Mineralogy and Petrology, 1977, 61, 109-128.	1.2	173
67	Os Partitioning Between Phases in Lherzolite and Basalt. Geophysical Monograph Series, 0, , 123-134.	0.1	59