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	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
2	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
3	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
4	Temperature and velocity measurements of a rising thermal plume. Geochemistry, Geophysics, Geosystems, 2015, 16, 579-599.	2.5	15
5	Ta'u and Ofu/Olosega volcanoes: The â€œTwin Sistersâ€•of Samoa, their P, T, X melting regime, and global implications. Geochemistry, Geophysics, Geosystems, 2014, 15, 2301-2318.	2.5	25
6	Age systematics of two young en echelon Samoan volcanic trails. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	56
7	Domains of depleted mantle: New evidence from hafnium and neodymium isotopes. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	69
8	Samoan hot spot track on a â€œhot spot highwayâ€• Implications for mantle plumes and a deep Samoan mantle source. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	77
9	Lithium isotope systematics of lavas from the Cookâ€“Austral Islands: Constraints on the origin of HIMU mantle. Earth and Planetary Science Letters, 2009, 277, 433-442.	4.4	67
10	Helium and neon isotopes in phenocrysts from Samoan lavas: Evidence for heterogeneity in the terrestrial high 3He/4He mantle. Earth and Planetary Science Letters, 2009, 287, 519-528.	4.4	44
11	The ⁸⁷Sr/⁸⁶Sr and ¹⁴³Nd/¹⁴⁴Nd 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
12	Globally elevated titanium, tantalum, and niobium (TITAN) in ocean island basalts with high ³He/⁴He. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	73
13	The return of subducted continental crust in Samoan lavas. Nature, 2007, 448, 684-687.	27.8	280
14	Volatile and trace elements in basaltic glasses from Samoa: Implications for water distribution in the mantle. Earth and Planetary Science Letters, 2006, 241, 932-951.	4.4	150
15	Strontium isotopes in melt inclusions from Samoan basalts: Implications for heterogeneity in the Samoan plume. Earth and Planetary Science Letters, 2006, 245, 260-277.	4.4	128
16	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
17	Helium solubility in olivine and implications for high 3He/4He in ocean island basalts. Nature, 2005, 437, 1140-1143.	27.8	125
18	Major and trace element composition of the depleted MORB mantle (DMM). Earth and Planetary Science Letters, 2005, 231, 53-72.	4.4	2,237

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19	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
20	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
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. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	143
22	Kinetic control of skeletal Sr/Ca in a symbiotic coral: Implications for the paleotemperature proxy. Paleoceanography, 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. Chemical Geology, 2000, 165, 215-241.	3.3	77
24	The fingerprint of seawater circulation in a 500-meter section of ocean crust gabbros. Geochimica Et Cosmochimica Acta, 1999, 63, 4059-4080.	3.9	255
25	Growth-step-selective incorporation of boron on the calcite surface. Geochimica Et Cosmochimica Acta, 1998, 62, 2915-2922.	3.9	61
26	Silica enrichment in the continental upper mantle via melt/rock reaction. Earth and Planetary Science Letters, 1998, 164, 387-406.	4.4	476
27	Oxygen isotope variations in ocean island basalt phenocrysts. Geochimica Et Cosmochimica Acta, 1997, 61, 2281-2293.	3.9	223
28	Rhenium abundances and systematics in oceanic basalts. Chemical Geology, 1997, 139, 185-205.	3.3	176
29	Hobbs Coast Cenozoic volcanism: Implications for the West Antarctic rift system. Chemical Geology, 1997, 139, 223-248.	3.3	100
30	An ion probe study of annual cycles of Sr/Ca and other trace elements in corals. Geochimica Et Cosmochimica Acta, 1996, 60, 3075-3084.	3.9	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. Geochimica Et Cosmochimica Acta, 1996, 60, 4551-4562.	3.9	24
32	The boron isotopic composition of altered oceanic crust. Chemical Geology, 1995, 126, 119-135.	3.3	183
33	Large scale isotopic Sr, Nd and O isotopic anatomy of altered oceanic crust: DSDP/ODP sites417/418. Earth and Planetary Science Letters, 1995, 130, 169-185.	4.4	324
34	Cenozoic volcanism in Antarctica: Jones Mountains and Peter I Island. Geochimica Et Cosmochimica Acta, 1995, 59, 3379-3388.	3.9	50
35	Fluid dynamic and geochemical aspects of entrainment in mantle plumes. Journal of Geophysical Research, 1994, 99, 24275-24300.	3.3	258
36	Nd and Sr isotope evidence linking mid-ocean-ridge basalts and abyssal peridotites. Nature, 1994, 371, 57-60.	27.8	109

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37	Fluid circulation in the oceanic crust: Contrast between volcanic and plutonic regimes. Journal of Geophysical Research, 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. Journal of Geophysical Research, 1994, 99, 24301-24321.	3.3	86
39	Experimental cpx/melt partitioning of 24 trace elements. Contributions To Mineralogy and Petrology, 1993, 113, 1-8.	3.1	933
40	Evidence for hotspot-related carbonatite metasomatism in the oceanic upper mantle. Nature, 1993, 365, 221-227.	27.8	370
41	ReOs isotope systematics of HIMU and EMII oceanic island basalts from the south Pacific Ocean. Earth and Planetary Science Letters, 1993, 114, 353-371.	4.4	434
42	Response : Mantle Plumes and Mantle Sources. Science, 1992, 258, 821-822.	12.6	0
43	Response : Mantle Plumes and Mantle Sources. Science, 1992, 258, 821-822.	12.6	0
44	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
45	The mantle sources of ocean ridges, islands and arcs: the Hf-isotope connection. Earth and Planetary Science Letters, 1991, 104, 364-380.	4.4	213
46	The hafnium paradox and the role of garnet in the source of mid-ocean-ridge basalts. Nature, 1989, 342, 420-422.	27.8	281
47	Sr, Nd, and Pb isotopic character of Tertiary basalts from southwest Poland. Geochimica Et Cosmochimica Acta, 1989, 53, 2689-2696.	3.9	61
48	Cretaceous ocean crust at DSDP Sites 417 and 418: Carbon uptake from weathering versus loss by magmatic outgassing. Geochimica Et Cosmochimica Acta, 1989, 53, 3091-3094.	3.9	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.. Earth and Planetary Science Letters, 1989, 95, 367-381.	4.4	49
50	Heterogeneous mantle domains: signatures, genesis and mixing chronologies. Earth and Planetary Science Letters, 1988, 90, 273-296.	4.4	834
51	Geochemical evolution of the New England seamount chain: Isotopic and trace-element constraints. Chemical Geology, 1987, 64, 35-54.	3.3	53
52	In search of a bulk-Earth composition. Chemical Geology, 1986, 57, 247-267.	3.3	595
53	Kimberlite-borne garnet peridotite xenoliths from old enriched subcontinental lithosphere. Earth and Planetary Science Letters, 1985, 75, 116-128.	4.4	144
54	A large-scale isotope anomaly in the Southern Hemisphere mantle. Nature, 1984, 309, 753-757.	27.8	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.	3.1	114
56	Strontium and samarium diffusion in diopside. Geochimica Et Cosmochimica Acta, 1984, 48, 1589-1608.	3.9	274
57	Alteration of basaltic glass: Mechanisms and significance for the oceanic crust-seawater budget. Geochimica Et Cosmochimica Acta, 1983, 47, 337-350.	3.9	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.	4.4	303
59	The control of alkalies and uranium in seawater by ocean crust alteration. Earth and Planetary Science Letters, 1982, 58, 202-212.	4.4	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.	4.4	183
62	Agents of low temperature ocean crust alteration. Contributions To Mineralogy and Petrology, 1981, 77, 150-157.	3.1	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, â€œnickel, and the existence of high-MgO liquids in natureâ€• Earth and Planetary Science Letters, 1979, 44, 159-161.	4.4	15
65	Nickel partitioning between olivine and silicate melt. Earth and Planetary Science Letters, 1978, 40, 203-219.	4.4	546
66	The geochemistry and evolution of early precambrian mantle. Contributions To Mineralogy and Petrology, 1977, 61, 109-128.	3.1	173
67	Os Partitioning Between Phases in Lherzolite and Basalt. Geophysical Monograph Series, 0, , 123-134.	0.1	59