Takeshi Hanyu

List of Publications by Year
in descending order

49 papers	1,929 citations	279798 23 h-index	254184 43 g-index
51 all docs	51 docs citations	51 times ranked	1628 citing authors

#	Article	IF	Citations
1	Contribution of slab melting and slab dehydration to magmatism in the NE Japan arc for the last 25 Myr: Constraints from geochemistry. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	2.5	176
2	Geochemical modeling of dehydration and partial melting of subducting lithosphere: Toward a comprehensive understanding of high-Mg andesite formation in the Setouchi volcanic belt, SW Japan. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	150
3	The uniform and low 3He/4He ratios of HIMU basalts as evidence for their origin as recycled materials. Nature, 1997, 390, 273-276.	27.8	131
4	The Petrology and Geochemistry of St. Helena Alkali Basalts: Evaluation of the Oceanic Crust-recycling Model for HIMU OIB. Journal of Petrology, 2011, 52, 791-838.	2.8	125
5	Key new pieces of the HIMU puzzle from olivines and diamond inclusions. Nature, 2016, 537, 666-670.	27.8	118
6	Geochemical characteristics and origin of the HIMU reservoir: A possible mantle plume source in the lower mantle. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	105
7	Limited latitudinal mantle plume motion for the Louisville hotspot. Nature Geoscience, 2012, 5, 911-917.	12.9	85
8	Uranium isotope systematics of ferromanganese crusts in the Pacific Ocean: Implications for the marine 238U/235U isotope system. Geochimica Et Cosmochimica Acta, 2014, 146, 43-58.	3.9	85
9	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
10	Geochemical Differences of the Hawaiian Shield Lavas: Implications for Melting Process in the Heterogeneous Hawaiian Plume. Journal of Petrology, 2009, 50, 1553-1573.	2.8	68
11	Noble gas study of the Reunion hotspot: evidence for distinct less-degassed mantle sources. Earth and Planetary Science Letters, 2001, 193, 83-98.	4.4	60
12	Isotope evolution in the HIMU reservoir beneath St. Helena: Implications for the mantle recycling of U and Th. Geochimica Et Cosmochimica Acta, 2014, 143, 232-252.	3.9	54
13	A contribution of slab-melts to the formation of high-Mg andesite magmas; Hf isotopic evidence from SW Japan. Geophysical Research Letters, 2002, 29, 8-1-8-4.	4.0	53
14	Noble gas study of HIMU and EM ocean island basalts in the Polynesian region. Geochimica Et Cosmochimica Acta, 1999, 63, 1181-1201.	3.9	42
15	Southern Louisiana salt dome xenoliths: First glimpse of Jurassic (ca. 160 Ma) Gulf of Mexico crust. Geology, 2011, 39, 315-318.	4.4	41
16	Constraints on the origin of the HIMU reservoir from Heâ€"Neâ€"Ar isotope systematics. Earth and Planetary Science Letters, 2011, 307, 377-386.	4.4	36
17	Magnesium isotopic fractionation during basalt differentiation as recorded by evolved magmas. Earth and Planetary Science Letters, 2021, 565, 116954.	4.4	28
18	Variety of the drift pumice clasts from the 2021 <scp>Fukutokuâ€Okaâ€noâ€Ba</scp> eruption, Japan. Island Arc, 2022, 31, .	1.1	28

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19	Noble gas systematics of submarine alkalic lavas near the Hawaiian hotspot. Chemical Geology, 2005, 214, 135-155.	3.3	27
20	Tiny droplets of ocean island basalts unveil Earthâ€™s deep chlorine cycle. Nature Communications, 2019, 10, 60.	12.8	26
21	Open system behavior of helium in case of the HIMU source area. Geophysical Research Letters, 1998, 25, 687-690.	4.0	25
22	Constraints on HIMU and EM by Sr and Nd isotopes re-examined. Earth, Planets and Space, 2000, 52, 61-70.	2.5	25
23	Thallium isotope systematics in volcanic rocks from St. Helena â€“ Constraints on the origin of the HIMU reservoir. Chemical Geology, 2018, 476, 292-301.	3.3	24
24	W isotope compositions of oceanic islands basalts from French Polynesia and their meaning for coreâ€“mantle interaction. Chemical Geology, 2009, 260, 37-46.	3.3	23
25	Acrossâ€•and alongâ€arc geochemical variations of lava chemistry in the Sangihe arc: Various fluid and melt slab fluxes in response to slab temperature. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	23
26	Development of a fully automated open-column chemical-separation system—COLUMNSPIDER—and its application to Sr-Nd-Pb isotope analyses of igneous rock samples. Journal of Mineralogical and Petrological Sciences, 2012, 107, 74-86.	0.9	22
27	Noble gas isotopic compositions of mantle xenoliths from northwestern Pacific lithosphere. Chemical Geology, 2009, 268, 313-323.	3.3	21
28	Collision-induced post-plateau volcanism: Evidence from a seamount on Ontong Java Plateau. Lithos, 2017, 294-295, 87-96.	1.4	21
29	Clinopyroxene and bulk rock Srâ€“Ndâ€“Hfâ€“Pb isotope compositions of Raivavae ocean island basalts: Does clinopyroxene record early stage magma chamber processes?. Chemical Geology, 2018, 482, 18-31.	3.3	19
30	Noble gas and geochronology study of the Hana Ridge, Haleakala volcano, Hawaii; implications to the temporal change of magma source and the structural evolution of the submarine ridge. Chemical Geology, 2007, 238, 1-18.	3.3	16
31	Geochemical diversity in submarine HIMU basalts from Austral Islands, French Polynesia. Contributions To Mineralogy and Petrology, 2013, 166, 1285-1304.	3.1	16
32	An eclogitic component in the Pitcairn mantle plume: Evidence from olivine compositions and Fe isotopes of basalts. Geochimica Et Cosmochimica Acta, 2022, 318, 415-427.	3.9	15
33	Pb isotope analyses of silicate rocks and minerals with Faraday detectors using enhanced-sensitivity laser ablation-multiple collector-inductively coupled plasma mass spectrometry. Geochemical Journal, 2013, 47, 369-384.	1.0	14
34	Hafnium isotope ratios of nine GSJ reference samples. Geochemical Journal, 2005, 39, 83-90.	1.0	14
35	Multi-chronology of volcanic rocks leading to reliable age estimates of volcanic activity: an example from the Setouchi volcanic rocks on Shodo-Shima Island, SW Japan. Journal of the Geological Society of Japan, 2010, 116, 661-679.	0.6	13
36	Magmatic processes revealed by noble gas signatures: the case of Unzen Volcano, Japan.. Geochemical Journal, 1997, 31, 395-405.	1.0	12

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37	Source materials for inception stage Hawaiian magmas: Pbâ€He isotope variations for early Kilauea. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	12
38	Origin of hotspots in the South Pacific: Recent advances in seismological and geochemical models. Geochemical Journal, 2013, 47, 259-284.	1.0	12
39	Deep plume origin of the Louisville hotspot: Noble gas evidence. Geochemistry, Geophysics, Geosystems, 2014, 15, 565-576.	2.5	12
40	Accumulation of â€˜anti-continentâ€™ at the base of the mantle and its recycling in mantle plumes. Geochimica Et Cosmochimica Acta, 2014, 143, 23-33.	3.9	11
41	Reâ€Os isotope and platinum group elements of a FOcal ZOne mantle source, <scp>L</scp>ouisville Seamounts Chain, <scp>P</scp>acific ocean. Geochemistry, Geophysics, Geosystems, 2015, 16, 486-504.	2.5	11
42	Determination of total CO2 in melt inclusions with shrinkage bubbles. Chemical Geology, 2020, 557, 119855.	3.3	11
43	Noble gas systematics of the Hawaiian volcanoes based on the analysis of Loihi, Kilauea and Koolau submarine rocks. Geophysical Monograph Series, 2002, , 373-389.	0.1	10
44	Linking Chemical Heterogeneity to Lithological Heterogeneity of the Samoan Mantle Plume With Feâ€Srâ€Ndâ€Pb Isotopes. Journal of Geophysical Research: Solid Earth, 2021, 126, .	3.4	10
45	Two-stages of plume tail volcanism formed Ojin Rise Seamounts adjoining Shatsky Rise. Lithos, 2020, 372-373, 105652.	1.4	6
46	Isotopic evidence for a link between the Lyra Basin and Ontong Java Plateau. Special Paper of the Geological Society of America, 0, , 251-269.	0.5	5
47	Testing the Ontong Java Nui Hypothesis: The Largest Supervolcano Ever on Earth. Journal of Geography (Chigaku Zasshi), 2021, 130, 559-584.	0.3	4
48	High-precision <i>in situ</i> analysis of Pb isotopes in melt inclusions by LA-ICP-MS and application of Independent Component Analysis. Geochemical Journal, 2018, 52, 69-74.	1.0	3
49	Review of five years of activity at IFREE /JAMSTEC. JAMSTEC Report of Research and Development, 2009, 9, 2_43-2_94.	0.2	1