

Takashi Miyazaki

List of Publications by Year in descending order

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78
papers

2,453
citations

201674

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214800

47
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80
docs citations

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times ranked

2097
citing authors

#	ARTICLE	IF	CITATIONS
1	Secular Variations in Provenance of Sedimentary Components in the Western North Pacific Ocean Constrained by Sr Isotopic Features of Deep-sea Sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	2.5	8
2	A part per trillion isotope ratio analysis of $^{90}\text{Sr}/^{88}\text{Sr}$ using energy-filtered thermal ionization mass spectrometry. <i>Scientific Reports</i> , 2022, 12, 1151.	3.3	6
3	Linking Chemical Heterogeneity to Lithological Heterogeneity of the Samoan Mantle Plume With Fe-Sr-Nd-Pb Isotopes. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	10
4	The earliest stage of Izu rear-arc volcanism revealed by drilling at Site U1437, International Ocean Discovery Program Expedition 350. <i>Island Arc</i> , 2020, 29, e12340.	1.1	8
5	Isotope Dilution-Total Evaporation-Thermal Ionization Mass Spectrometric Direct Determination of Radioactive Strontium-90 in Microdrop Samples. <i>Analytical Chemistry</i> , 2020, 92, 16058-16065.	6.5	10
6	The First 10 Million Years of Rear-arc Magmas Following Backarc Basin Formation Behind the Izu Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009114.	2.5	2
7	Two-stages of plume tail volcanism formed Ojin Rise Seamounts adjoining Shatsky Rise. <i>Lithos</i> , 2020, 372-373, 105652.	1.4	6
8	Statistic and Isotopic Characterization of Deep-sea Sediments in the Western North Pacific Ocean: Implications for Genesis of the Sediment Extremely Enriched in Rare Earth Elements. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3402-3430.	2.5	49
9	The Zealandia Volcanic Complex: Further evidence of a lower crustal "hot zone" beneath the Mariana Intra-oceanic Arc, Western Pacific. <i>Island Arc</i> , 2019, 28, e12308.	1.1	2
10	Identifying volatile mantle trend with the water-fluorine-cerium systematics of basaltic glass. <i>Chemical Geology</i> , 2019, 522, 283-294.	3.3	18
11	Geochemical mapping of slab-derived fluid and source mantle along Japan arcs. <i>Gondwana Research</i> , 2019, 70, 36-49.	6.0	14
12	Tuffaceous Mud is a Volumetrically Important Volcaniclastic Facies of Submarine Arc Volcanism and Record of Climate Change. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1217-1243.	2.5	19
13	Clinopyroxene and bulk rock Sr-Nd-Hf-Pb isotope compositions of Raivavae ocean island basalts: Does clinopyroxene record early stage magma chamber processes?. <i>Chemical Geology</i> , 2018, 482, 18-31.	3.3	19
14	Plume-stagnant slab-lithosphere interactions: Origin of the late Cenozoic intra-plate basalts on the East Eurasia margin. <i>Lithos</i> , 2018, 300-301, 227-249.	1.4	46
15	Recycled ancient ghost carbonate in the Pitcairn mantle plume. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8682-8687.	7.1	73
16	U-Pb dating of calcite using LA-ICP-MS: Instrumental setup for non-matrix-matched age dating and determination of analytical areas using elemental imaging. <i>Geochemical Journal</i> , 2018, 52, 531-540.	1.0	16
17	Determination of stable isotope ratios of Ba by ^{130}Ba double-spike total evaporation method using thermal ionization mass spectrometry (DS-TEV-TIMS). <i>JAMSTEC Report of Research and Development</i> , 2018, 27, 109-118.	0.2	2
18	The missing half of the subduction factory: shipboard results from the Izu rear arc, IODP Expedition 350. <i>International Geology Review</i> , 2017, 59, 1677-1708.	2.1	23

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19	Characterization of sulfate mineral deposits in central Thailand. <i>Island Arc</i> , 2017, 26, e12175.	1.1	3
20	Collision-induced post-plateau volcanism: Evidence from a seamount on Ontong Java Plateau. <i>Lithos</i> , 2017, 294-295, 87-96.	1.4	21
21	Genesis of ultra-high-Ni olivine in high-Mg andesite lava triggered by seamount subduction. <i>Scientific Reports</i> , 2017, 7, 11515.	3.3	21
22	Geochemistry of the NW Pacific Plate: Origins of Indian and Pacific Mantles and Nature of Their Boundary. <i>Journal of Geography (Chigaku Zasshi)</i> , 2017, 126, 163-179.	0.3	4
23	Geochemical records from loess deposits in Japan over the last 210 kyr: Lithogenic source changes and paleoclimatic indications. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2745-2761.	2.5	16
24	Origin of unusual fractionation of Pb isotope ratios with calcium in thallium-spiked multiple collector-inductively coupled plasma mass spectrometry. <i>Geochemical Journal</i> , 2016, 50, 423-429.	1.0	2
25	Determination of relative Faraday cup efficiency factor using $\hat{\Lambda}$ exponential law mass fractionation model for multiple collector $\hat{\Lambda}$ thermal ionization mass spectrometry. <i>Geochemical Journal</i> , 2016, 50, 445-447.	1.0	5
26	Reply to comment by I. Pineda-Velasco, T. T. Nguyen, H. Kitagawa, and E. Nakamura on "Diverse magmatic effects of subducting a hot slab in SW Japan: Results from forward modeling". <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2853-2857.	2.5	16
27	Missing western half of the Pacific plate: Geochemical nature of the Izanagi-Pacific late-stage interaction with a stationary boundary between the Indian and Pacific mantles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3309-3332.	2.5	34
28	Petrological and geochemical evolution of the Tolbachik volcanic massif, Kamchatka, Russia. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 307, 156-181.	2.1	32
29	Geochemical variations in Japan Sea back-arc basin basalts formed by high-temperature adiabatic melting of mantle metasomatized by sediment subduction components. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1324-1347.	2.5	49
30	Spatial variation of Sr-Nd-Hf isotopic compositions in from Cretaceous to Paleogene granitoids from Northeastern Japan Arc. <i>Ganseki Kobutsu Kagaku</i> , 2015, 44, 91-111.	0.1	5
31	Isotope evolution in the HIMU reservoir beneath St. Helena: Implications for the mantle recycling of U and Th. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 143, 232-252.	3.9	54
32	Primary melt from Sannome-gata volcano, NE Japan arc: constraints on generation conditions of rear-arc magmas. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	20
33	Melting of the Uppermost Metasomatized Asthenosphere Triggered by Fluid Fluxing from Ancient Subducted Sediment: Constraints from the Quaternary Basalt Lavas at Chugaryeong Volcano, Korea. <i>Journal of Petrology</i> , 2014, 55, 499-528.	2.8	26
34	SIMS zircon U-Pb and mica ^{40}Ar geochronology, and Sr-Nd isotope geochemistry of Neoproterozoic granitoids and their bearing on the evolution of the north Eastern Desert, Egypt. <i>Gondwana Research</i> , 2014, 25, 1570-1598.	6.0	66
35	Analysis of stable isotope ratios of Ba by double-spike standard-sample bracketing using multiple-collector inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 483.	3.0	42
36	Mission Immiscible: Distinct Subduction Components Generate Two Primary Magmas at Pagan Volcano, Mariana Arc. <i>Journal of Petrology</i> , 2014, 55, 63-101.	2.8	69

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37	Coeval felsic and Mafic Magmas in neorchean calc-alkaline magmatic arcs, Dharwar craton, Southern India: Field and petrographic evidence from mafic to Hybrid magmatic enclaves and synplutonic Mafic dykes. <i>Journal of the Geological Society of India</i> , 2014, 84, 5-28.	1.1	36
38	Microanalysis of Pb isotope ratios of low-Pb glass samples by femtosecond laser ablation-multiple ion counter-ICP-mass spectrometry (fsLA-MIC-ICP-MS). <i>Geochemical Journal</i> , 2014, 48, 309-320.	1.0	7
39	High-Mg Adakite and Low-Ca Boninite from a Bonin Fore-arc Seamount: Implications for the Reaction between Slab Melts and Depleted Mantle. <i>Journal of Petrology</i> , 2013, 54, 1149-1175.	2.8	91
40	Geochronological constraints on Meso- and Neorchean regional metamorphism and magmatism in the Dharwar craton, southern India. <i>Journal of Asian Earth Sciences</i> , 2013, 78, 18-38.	2.3	137
41	Melting of dehydrated oceanic crust from the stagnant slab and of the hydrated mantle transition zone: Constraints from Cenozoic alkaline basalts in eastern China. <i>Chemical Geology</i> , 2013, 359, 32-48.	3.3	117
42	Primary Magmas at the Volcanic Front of the NE Japan Arc: Coeval Eruption of Crustal Low-K Tholeiitic and Mantle-derived Medium-K Calc-Alkaline Basalts at Azuma Volcano. <i>Journal of Petrology</i> , 2013, 54, 103-148.	2.8	38
43	Pb isotope analyses of silicate rocks and minerals with Faraday detectors using enhanced-sensitivity laser ablation-multiple collector-inductively coupled plasma mass spectrometry. <i>Geochemical Journal</i> , 2013, 47, 369-384.	1.0	14
44	Across- and along-arc geochemical variations of lava chemistry in the Sangihe arc: Various fluid and melt slab fluxes in response to slab temperature. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	23
45	Development of a fully automated open-column chemical-separation system—COLUMN SPIDER—and its application to Sr-Nd-Pb isotope analyses of igneous rock samples. <i>Journal of Mineralogical and Petrological Sciences</i> , 2012, 107, 74-86.	0.9	22
46	Petrogenesis of the Kaikomagatake granitoid pluton in the Izu Collision Zone, central Japan: implications for transformation of juvenile oceanic arc into mature continental crust. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 611-629.	3.1	15
47	Hf¹76;/Nd isotope constraints on the origin of Dehshir Ophiolite, Central Iran. <i>Island Arc</i> , 2012, 21, 202-214.	1.1	17
48	Improved Nd chemical separation technique for ¹⁴³ Nd/ ¹⁴⁴ Nd analysis in geological samples using packed Ln resin columns. <i>JAMSTEC Report of Research and Development</i> , 2012, 15, 27-33.	0.2	18
49	Geochemical characteristics and origin of the HIMU reservoir: A possible mantle plume source in the lower mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	2.5	105
50	Possible juvenile Palaeoarchean TTG magmatism in eastern India and its constraints for the evolution of the Singhbhum craton. <i>Geological Magazine</i> , 2011, 148, 340-347.	1.5	81
51	Southern Louisiana salt dome xenoliths: First glimpse of Jurassic (ca. 160 Ma) Gulf of Mexico crust. <i>Geology</i> , 2011, 39, 315-318.	4.4	41
52	Silicic Magmas in the Izu¹60;Bonin Oceanic Arc and Implications for Crustal Evolution. <i>Journal of Petrology</i> , 2009, 50, 685-723.	2.8	112
53	Geochemical Differences of the Hawaiian Shield Lavas: Implications for Melting Process in the Heterogeneous Hawaiian Plume. <i>Journal of Petrology</i> , 2009, 50, 1553-1573.	2.8	68
54	Synplutonic mafic dykes from late Archaean granitoids in the Eastern Dharwar Craton, southern India. <i>Journal of the Geological Society of India</i> , 2009, 73, 117-130.	1.1	30

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55	Precise determination of Sr isotope ratios in igneous rock samples and application to micro-analysis of plagioclase phenocrysts. JAMSTEC Report of Research and Development, 2009, 2009, 59-64.	0.2	34
56	Precise Nd isotope analysis of igneous rocks using cation exchange chromatography and thermal ionization mass spectrometry (TIMS). JAMSTEC Report of Research and Development, 2009, 2009, 65-71.	0.2	15
57	Precise Pb isotope analysis of igneous rocks using fully-automated double spike thermal ionization mass spectrometry (FA-DS-TIMS). JAMSTEC Report of Research and Development, 2009, 2009, 73-80.	0.2	13
58	New Insights into Andesite Genesis: the Role of Mantle-derived Calc-alkalic and Crust-derived Tholeiitic Melts in Magma Differentiation beneath Zao Volcano, NE Japan. Journal of Petrology, 2008, 49, 1971-2008.	2.8	62
59	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
60	The Petrology and Geochemistry of Oto-Zan Composite Lava Flow on Shodo-Shima Island, SW Japan: Remelting of a Solidified High-Mg Andesite Magma. Journal of Petrology, 2006, 47, 595-629.	2.8	58
61	Cooling history of the Puttetti alkali syenite pluton, southern India. Gondwana Research, 2005, 8, 567-574.	6.0	10
62	The change of chemical and Sr, Nd isotopic compositions of Cretaceous granitic rocks during weathering process. Ganseki Kobutsu Kagaku, 2004, 33, 185-196.	0.1	1
63	Enriched Subcontinental Lithospheric Mantle in the Northern Part of the South Indian Granulite Terrain: Evidence from Yelagiri and Sevattur Syenite Plutons, Tamil Nadu, South India. Gondwana Research, 2003, 6, 585-594.	6.0	20
64	New synthesis method of silica-gel for lead isotope analysis.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2003, 79B, 58-62.	3.8	15
65	Rb-Sr and K-Ar geochronology and petrogenesis of the Aji Granite in the eastern Sanuki district, Ryoke Belt, southwest Japan. Journal of Mineralogical and Petrological Sciences, 2003, 98, 19-30.	0.9	10
66	Rb-Sr and Sm-Nd Mineral Isochron Ages of the Metamorphic Rocks in the Namaqualand Metamorphic Complex, South Africa. Gondwana Research, 2002, 5, 771-779.	6.0	4
67	Rb-Sr and Sm-Nd Geochronology of the Eppawala Metamorphic Rocks and Carbonatite, Wannai Complex, Sri Lanka. Gondwana Research, 2001, 4, 409-420.	6.0	17
68	Petrogenesis and Source Characteristics of Alkaline Plutons in Tamil Nadu, South India: Evidence for Enriched Lithospheric Mantle. Gondwana Research, 2001, 4, 706-707.	6.0	2
69	Rb-Sr Geochronology, Nd-Sr Isotopes and Whole Rock Geochemistry of Yelagiri and Sevattur Syenites, Tamil Nadu, South India. Gondwana Research, 2000, 3, 39-53.	6.0	61
70	Sr, Nd, C and O isotopic compositions of carbonatite and peralkaline silicate rocks from the Zhidoy complex, Russia. Evidence for binary mixing, liquid immiscibility and a heterogeneous depleted mantle source region.. Journal of Mineralogical and Petrological Sciences, 2000, 95, 162-172.	0.9	8
71	Sr and Nd isotope ratios of twelve GSJ rock reference samples.. Geochemical Journal, 1998, 32, 345-350.	1.0	109
72	Geochronological and Geochemical Characterization of Some Alkaline Plutons from Tamil Nadu, South India: Implications for the Pan-African Orogeny. Gondwana Research, 1997, 1, 154.	6.0	2

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73	Wave-PV hybrid generation system carried in the offshore floating type wave power device "Mighty Whale". , 0, , .		3
74	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
75	Expedition 350 summary. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	13
76	Expedition 350 methods. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	10
77	Site U1436. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	3
78	Site U1437. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	14