

# Takashi Miyazaki

## List of Publications by Year in descending order

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78  
papers

2,453  
citations

201674

27  
h-index

214800

47  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2097  
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. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.   | 2.5 | 176       |
| 2  | Geochronological constraints on Meso- and Neoproterozoic regional metamorphism and magmatism in the Dharwar craton, southern India. <i>Journal of Asian Earth Sciences</i> , 2013, 78, 18-38.  | 2.3 | 137       |
| 3  | 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       |
| 4  | Silicic Magmas in the Izu-Bonin Oceanic Arc and Implications for Crustal Evolution. <i>Journal of Petrology</i> , 2009, 50, 685-723.   | 2.8 | 112       |
| 5  | Sr and Nd isotope ratios of twelve GSJ rock reference samples. <i>Geochemical Journal</i> , 1998, 32, 345-350.   | 1.0 | 109       |
| 6  | 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       |
| 7  | 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        |
| 8  | Possible juvenile Palaeoproterozoic 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        |
| 9  | 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        |
| 10 | 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        |
| 11 | 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        |
| 12 | SIMS zircon U-Pb and mica K-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        |
| 13 | 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. <i>Journal of Petrology</i> , 2008, 49, 1971-2008.                                | 2.8 | 62        |
| 14 | Rb-Sr Geochronology, Nd-Sr Isotopes and Whole Rock Geochemistry of Yelagiri and Sevattur Syenites, Tamil Nadu, South India. <i>Gondwana Research</i> , 2000, 3, 39-53.   | 6.0 | 61        |
| 15 | The Petrology and Geochemistry of Oto-Zan Composite Lava Flow on Shodo-Shima Island, SW Japan: Remelting of a Solidified High-Mg Andesite Magma. <i>Journal of Petrology</i> , 2006, 47, 595-629.  | 2.8 | 58        |
| 16 | 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        |
| 17 | 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        |
| 18 | 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        |

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|----|--|-----|-----------|
| 19 | 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        |
| 20 | 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        |
| 21 | 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        |
| 22 | 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        |
| 23 | 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        |
| 24 | Missing western half of the Pacific-Ridge interaction with a stationary boundary between the Indian and Pacific mantles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3309-3332.  | 2.5 | 34        |
| 25 | Precise determination of Sr isotope ratios in igneous rock samples and application to micro-analysis of plagioclase phenocrysts. <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 59-64.  | 0.2 | 34        |
| 26 | 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        |
| 27 | 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        |
| 28 | 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        |
| 29 | 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        |
| 30 | 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        |
| 31 | Development of a fully automated open-column chemical-separation system&mdash;COLUMN SPIDER&mdash;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        |
| 32 | Collision-induced post-plateau volcanism: Evidence from a seamount on Ontong Java Plateau. <i>Lithos</i> , 2017, 294-295, 87-96.   | 1.4 | 21        |
| 33 | 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        |
| 34 | 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. <i>Gondwana Research</i> , 2003, 6, 585-594.   | 6.0 | 20        |
| 35 | 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        |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | Clinopyroxene and bulk rock Sr <sup>87</sup> /Nd <sup>143</sup> -Hf <sup>177</sup> /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        |
| 38 | Identifying volatile mantle trend with the water-fluorine-cerium systematics of basaltic glass. <i>Chemical Geology</i> , 2019, 522, 283-294.  | 3.3 | 18        |
| 39 | Improved Nd chemical separation technique for <sup>143</sup> Nd/ <sup>144</sup> 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        |
| 40 | Rb-Sr and Sm-Nd Geochronology of the Eppawala Metamorphic Rocks and Carbonatite, Wannai Complex, Sri Lanka. <i>Gondwana Research</i> , 2001, 4, 409-420.   | 6.0 | 17        |
| 41 | Hf-Nd isotope constraints on the origin of Dehshir Ophiolite, Central Iran. <i>Island Arc</i> , 2012, 21, 202-214.   | 1.1 | 17        |
| 42 | 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        |
| 43 | 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        |
| 44 | 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        |
| 45 | New synthesis method of silica-gel for lead isotope analysis.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2003, 79B, 58-62.  | 3.8 | 15        |
| 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 | Precise Nd isotope analysis of igneous rocks using cation exchange chromatography and thermal ionization mass spectrometry (TIMS). <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 65-71.  | 0.2 | 15        |
| 48 | 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        |
| 49 | Geochemical mapping of slab-derived fluid and source mantle along Japan arcs. <i>Gondwana Research</i> , 2019, 70, 36-49.  | 6.0 | 14        |
| 50 | Site U1437. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .   | 0.0 | 14        |
| 51 | Expedition 350 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .   | 0.0 | 13        |
| 52 | Precise Pb isotope analysis of igneous rocks using fully-automated double spike thermal ionization mass spectrometry (FA-DS-TIMS). <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 73-80.  | 0.2 | 13        |
| 53 | Cooling history of the Puttetti alkali syenite pluton, southern India. <i>Gondwana Research</i> , 2005, 8, 567-574.  | 6.0 | 10        |
| 54 | 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        |

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|----|--|-----|-----------|
| 55 | Expedition 350 methods. Proceedings of the International Ocean Discovery Program, 0, , .   | 0.0 | 10        |
| 56 | 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        |
| 57 | Linking Chemical Heterogeneity to Lithological Heterogeneity of the Samoan Mantle Plume With Fe-Sr-Nd-Pb Isotopes. Journal of Geophysical Research: Solid Earth, 2021, 126, .  | 3.4 | 10        |
| 58 | 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         |
| 59 | The earliest stage of Izu rear-arc volcanism revealed by drilling at Site U1437, International Ocean Discovery Program Expedition 350. Island Arc, 2020, 29, e12340.   | 1.1 | 8         |
| 60 | Secular Variations in Provenance of Sedimentary Components in the Western North Pacific Ocean Constrained by Sr Isotopic Features of Deep-Sea Sediments. Geochemistry, Geophysics, Geosystems, 2022, 23, .   | 2.5 | 8         |
| 61 | Microanalysis of Pb isotope ratios of low-Pb glass samples by femtosecond laser ablation-multiple ion counter-ICP-mass spectrometry (fsLA-MIC-ICP-MS). Geochemical Journal, 2014, 48, 309-320.   | 1.0 | 7         |
| 62 | Two-stages of plume tail volcanism formed Ojin Rise Seamounts adjoining Shatsky Rise. Lithos, 2020, 372-373, 105652.   | 1.4 | 6         |
| 63 | A part per trillion isotope ratio analysis of <sup>90</sup> Sr/ <sup>88</sup> Sr using energy-filtered thermal ionization mass spectrometry. Scientific Reports, 2022, 12, 1151.   | 3.3 | 6         |
| 64 | 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         |
| 65 | Determination of relative Faraday cup efficiency factor using $\lambda$ exponential law mass fractionation model for multiple collector $\lambda$ thermal ionization mass spectrometry. Geochemical Journal, 2016, 50, 445-447.  | 1.0 | 5         |
| 66 | Spatial variation of Sr-Nd-Hf isotopic compositions in from Cretaceous to Paleogene granitoids from Northeastern Japan Arc. Ganseki Kobutsu Kagaku, 2015, 44, 91-111.  | 0.1 | 5         |
| 67 | 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         |
| 68 | Geochemistry of the NW Pacific Plate: Origins of Indian and Pacific Mantles and Nature of Their Boundary. Journal of Geography (Chigaku Zasshi), 2017, 126, 163-179.   | 0.3 | 4         |
| 69 | Wave-PV hybrid generation system carried in the offshore floating type wave power device "Mighty Whale". , 0, , .  |     | 3         |
| 70 | Characterization of sulfate mineral deposits in central Thailand. Island Arc, 2017, 26, e12175.  | 1.1 | 3         |
| 71 | Site U1436. Proceedings of the International Ocean Discovery Program, 0, , .   | 0.0 | 3         |
| 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 | Petrogenesis and Source Characteristics of Alkaline Plutons in Tamil Nadu, South India: Evidence for Enriched Lithospheric Mantle. <i>Gondwana Research</i> , 2001, 4, 706-707.  | 6.0 | 2         |
| 74 | 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         |
| 75 | 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         |
| 76 | 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         |
| 77 | Determination of stable isotope ratios of Ba by $^{130}\text{Ba}$ 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         |
| 78 | The change of chemical and Sr, Nd isotopic compositions of Cretaceous granitic rocks during weathering process. <i>Ganseki Kobutsu Kagaku</i> , 2004, 33, 185-196.   | 0.1 | 1         |