

Natsue Abe

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,946
citations

361413

20
h-index

265206

42
g-index

75
all docs

75
docs citations

75
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	The origin and evolution of Archean lithospheric mantle. <i>Precambrian Research</i> , 2003, 127, 19-41.	2.7	432
2	Volcanism in Response to Plate Flexure. <i>Science</i> , 2006, 313, 1426-1428.	12.6	262
3	Primitive layered gabbros from fast-spreading lower oceanic crust. <i>Nature</i> , 2014, 505, 204-207.	27.8	125
4	Drilling constraints on lithospheric accretion and evolution at Atlantis Massif, Mid-Atlantic Ridge 30°N. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	112
5	Reaction of orthopyroxene in peridotite xenoliths with alkali-basalt melt and its implication for genesis of alpine-type chromitite. <i>American Mineralogist</i> , 1995, 80, 1041-1047.	1.9	80
6	Mantle peridotites from the Western Pacific. <i>Gondwana Research</i> , 2007, 11, 180-199.	6.0	73
7	Geochemical characteristics of the uppermost mantle beneath the Japan island arcs: implications for upper mantle evolution. <i>Physics of the Earth and Planetary Interiors</i> , 1998, 107, 233-248.	1.9	72
8	Dynamic Accretion Beneath a Slow-Spreading Ridge Segment: IODP Hole 1473A and the Atlantis Bank Oceanic Core Complex. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12631-12659.	3.4	53
9	Petit-spot lava fields off the central Chile trench induced by plate flexure. <i>Geochemical Journal</i> , 2013, 47, 249-257.	1.0	39
10	Pre-subduction metasomatic enrichment of the oceanic lithosphere induced by plate flexure. <i>Nature Geoscience</i> , 2016, 9, 898-903.	12.9	39
11	Podiform chromitite in the arc mantle: chromitite xenoliths from the Takashima alkali basalt, Southwest Japan arc. <i>Mineralium Deposita</i> , 1994, 29, 434-438.	4.1	37
12	TIARES Project—Tomographic investigation by seafloor array experiment for the Society hotspot. <i>Earth, Planets and Space</i> , 2012, 64, i-iv.	2.5	33
13	Hydration processes in the arc mantle; petrology of the Megata peridotite xenoliths, the Northeast Japan arc. <i>Journal of Mineralogy, Petrology and Economic Geology</i> , 1992, 87, 305-317.	0.1	31
14	Subsurface structure of the "petit-spot" volcanoes on the northwestern Pacific Plate. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	29
15	Direct evidence for upper mantle structure in the NW Pacific Plate: Microstructural analysis of a petit-spot peridotite xenolith. <i>Earth and Planetary Science Letters</i> , 2011, 302, 194-202.	4.4	28
16	Seismic anisotropy in the uppermost mantle, back-arc region of the northeast Japan arc: Petrophysical analyses of Ichinomegata peridotite xenoliths. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	26
17	Petrology of podiform chromitite from the ocean floor at the 15°20'N FZ in the MAR, Site 1271, ODP Leg 209. <i>Journal of Mineralogical and Petrological Sciences</i> , 2011, 106, 97-102.	0.9	25
18	Electrical conductivity of old oceanic mantle in the northwestern Pacific I: 1-D profiles suggesting differences in thermal structure not predictable from a plate cooling model. <i>Earth, Planets and Space</i> , 2017, 69, .	2.5	23

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19	Petrological feature of spinel lherzolite xenolith from Oki-Dogo Island: An implication for variety of the upper mantle peridotite beneath southwestern Japan. <i>Island Arc</i> , 2003, 12, 219-232.	1.1	22
20	Noble gas isotopic compositions of mantle xenoliths from northwestern Pacific lithosphere. <i>Chemical Geology</i> , 2009, 268, 313-323.	3.3	21
21	Expedition 360 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
22	Site U1473. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	20
23	Examination of gas hydrate-bearing deep ocean sediments by X-ray Computed Tomography and verification of physical property measurements of sediments. <i>Marine and Petroleum Geology</i> , 2019, 108, 239-248.	3.3	19
24	Podiform chromitite formation in a low-Cr/high-Al system: An example from the Southwest Indian Ridge (SWIR). <i>Mineralogy and Petrology</i> , 2014, 108, 533-549.	1.1	16
25	Permeability Profiles Across the Crust-Mantle Sections in the Oman Drilling Project Inferred From Dry and Wet Resistivity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018698.	3.4	16
26	Petrochemistry of serpentinized peridotite from the Iberia Abyssal Plain (ODP Leg 173): its character intermediate between suboceanic and sub-continental upper mantle. <i>Geological Society Special Publication</i> , 2001, 187, 143-159.	1.3	15
27	Petrology of peridotite xenoliths in alkali basalt (11Ma) from Boun, Korea: An insight into the upper mantle beneath the East Asian continental margin.. <i>Journal of Mineralogical and Petrological Sciences</i> , 2001, 96, 89-99.	0.9	15
28	Peridotite xenoliths and essential ejecta from the Ninomegata crater, the Northeastern Japan arc.. <i>Journal of Mineralogy, Petrology and Economic Geology</i> , 1995, 90, 41-49.	0.1	14
29	Petrography and Geochemistry of the mantle xenoliths: Implications for lithospheric mantle beneath the Japan arcs. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 143-158.	0.1	14
30	Porosity, permeability, and grain size of sediment cores from gas-hydrate-bearing sites and their implication for overpressure in shallow argillaceous formations: Results from the national gas hydrate program expedition 02, Krishna-Godavari Basin, India. <i>Marine and Petroleum Geology</i> , 2019, 108, 332-347.	3.3	13
31	Significance and Variety of Mantle-crust Boundary in the Oman Ophiolite. <i>Journal of Geography (Chigaku Zasshi)</i> , 2003, 112, 750-768.	0.3	12
32	Indian Monsoonal Variations During the Past 80Kyr Recorded in NGHP-02 Hole 19B, Western Bay of Bengal: Implications From Chemical and Mineral Properties. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 148-165.	2.5	12
33	Major Mineral Fraction and Physical Properties of Carbonated Peridotite (Listvenite) From ICDP Oman Drilling Project Hole BT1B Inferred From X-ray CT Core Images. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022719.	3.4	11
34	Formation and Evolution of Oceanic Lithosphere: New Insights on Crustal Structure and Igneous Geochemistry from ODP/IODP Sites 1256, U1309, and U1415. <i>Developments in Marine Geology</i> , 2014, , 449-505.	0.4	10
35	Strength characteristics of sediments from a gas hydrate deposit in the Krishna-Godavari Basin on the eastern margin of India. <i>Marine and Petroleum Geology</i> , 2019, 108, 348-355.	3.3	10
36	Hybridization of Dunite and Gabbroic Materials in Hole 1271B from Mid-Atlantic Ridge 15°N: Implications for Melt Flow and Reaction in the Upper Mantle. , 0, , .		10

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37	The MoHole: A Crustal Journey and Mantle Quest, Workshop in Kanazawa, Japan, 3–5 June 2010. <i>Scientific Drilling</i> , 0, 10, 56-63.	0.6	10
38	Submarine lava fields in French Polynesia. <i>Marine Geology</i> , 2016, 373, 39-48.	2.1	9
39	Melt&€rock interactions and fabric development of peridotites from North Pond in the Kane area, Mid&€Atlantic Ridge: Implications of microstructural and petrological analyses of peridotite samples from IODP Hole U1382A. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2298-2322.	2.5	8
40	Garnet xenocryst from petit-spot lavas as an indicator for off-axis mantle refertilization at intermediate spreading ridges. <i>Geology</i> , 2017, 45, 1091-1094.	4.4	8
41	Constraints on the fluid supply rate into and through gas hydrate reservoir systems as inferred from pore-water chloride and in situ temperature profiles, Krishna-Godavari Basin, India. <i>Marine and Petroleum Geology</i> , 2019, 108, 368-376.	3.3	8
42	An origin of the along-arc compositional variation in the Izu-Bonin arc system. <i>Geoscience Frontiers</i> , 2020, 11, 1621-1634.	8.4	8
43	Geological aspects of peridotite and related xenoliths in volcanic rocks: an example from the Japan arcs. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 133-142.	0.1	8
44	Investigation of the Petrologic Nature of the Moho toward the Mohole. <i>Journal of Geography (Chigaku Zasshi)</i> , 2008, 117, 110-123.	0.3	7
45	Mission Moho: Formation and evolution of oceanic lithosphere. <i>Eos</i> , 2006, 87, 539.	0.1	6
46	Crack geometry of serpentinized peridotites inferred from onboard ultrasonic data from the Oman Drilling Project. <i>Tectonophysics</i> , 2021, 814, 228978.	2.2	6
47	Ophiolites and ultramafic rocks. , 0, , 223-250.		6
48	Hole U1473A remediation operations, Expedition 362T. <i>Proceedings of the International Ocean Discovery Program</i> , 0, , .	0.0	6
49	Equivalent formation strength as a proxy tool for exploring for the location and distribution of gas hydrates. <i>Marine and Petroleum Geology</i> , 2019, 108, 356-367.	3.3	5
50	Workshop report: Exploring deep oceanic crust off Hawai'i. <i>Scientific Drilling</i> , 0, 29, 69-82.	0.6	5
51	Effects of Alteration and Cracks on the Seismic Velocity Structure of Oceanic Lithosphere Inferred From Ultrasonic Measurements of Mafic and Ultramafic Samples Collected by the Oman Drilling Project. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021923.	3.4	5
52	Subsurface Structure of the "Petit-spot" Intra-plate Volcanism, in the Northwestern Pacific. <i>JAMSTEC Report of Research and Development</i> , 2006, 3, 31-42.	0.2	5
53	A cold seep triggered by a hot ridge subduction. <i>Scientific Reports</i> , 2021, 11, 20923.	3.3	5
54	Comments on "Garnet-bearing spinel harzburgite xenolith from Arato-yama alkali basalt, southwest Japan". by Yamamoto et al.. <i>Ganseki Kobutsu Kagaku</i> , 2001, 30, 190-193.	0.1	5

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55	Seismic properties of gabbroic sections in oceanic core complexes: constraints from seafloor drilling. <i>Marine Geophysical Researches</i> , 2019, 40, 557-569.	1.2	4
56	Hole U1415I. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	4
57	Special issue "Earth Sciences of Mantle Xenoliths: A Window to Earth's Interior" Preface. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 131-132.	0.1	4
58	Hole U1415AJ. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	4
59	Tectonics and mechanism of a spreading ridge subduction at the Chile Triple Junction based on new marine geophysical data. <i>Geochemical Journal</i> , 2013, 47, 137-147.	1.0	3
60	Biotite in olivine gabbros from Atlantis Bank: Evidence for amphibolite-facies metasomatic alteration of the lower oceanic crust. <i>Lithos</i> , 2019, 348-349, 105176.	1.4	3
61	Hole U1415P. Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program, 0, , .	1.0	2
62	On porosity determination for hard rock drilling using core samples collected by the Oman Drilling Project. <i>Journal of the Geological Society of Japan</i> , 2020, 126, 713-717.	0.6	2
63	Ship-board determination of whole-rock (ultra-)trace element concentrations by laser ablation-inductively coupled plasma mass spectrometry analysis of pressed powder pellets aboard the D/V & Chiky>. <i>Scientific Drilling</i> , 0, 30, 75-99.	0.6	2
64	Simultaneous Measurements of Elastic Wave Velocity and Porosity of Epidosites Collected From the Oman Ophiolite: Implication for Low V_P/V_S Anomaly in the Oceanic Crust. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
65	Trans-Pacific Bathymetry Survey crossing over the Pacific, Antarctic, and Nazca plates. <i>JAMSTEC Report of Research and Development</i> , 2013, 17, 43-57.	0.2	1
66	IODP Expeditions 304 and 305 - Oceanic Core Complex Formation, Atlantis Massif. <i>Scientific Drilling</i> , 2005, , .	0.6	1
67	Preface: Geoscience dynamics in the Patagonia Archipelago - Southern Pacific Ocean. <i>Geochemical Journal</i> , 2013, 47, 93-95.	1.0	0
68	Metasomatized peridotite xenoliths from the cretaceous rift-related Natash volcanics and their bearing on the nature of the lithospheric mantle beneath the southern part of the Eastern Desert of Egypt. <i>Lithos</i> , 2020, 370-371, 105642.	1.4	0
69	Detrital Minerals in Surface Sediments from Hess Deep, Equatorial Pacific: Implications for the Lithologic Spread of Mafic-Ultramafic Rocks. , 0, , .		0
70	U-Pb dating of granitic cobble (dropstone) recovered from inner slope of the Chile Trench (48°S): Constraint for its provenance. <i>Geochemical Journal</i> , 2020, 54, 195-201.	1.0	0