

Shiki Machida

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,361
citations

361296

20
h-index

330025

37
g-index

42
all docs

42
docs citations

42
times ranked

1064
citing authors

#	ARTICLE	IF	CITATIONS
1	Volcanism in Response to Plate Flexure. <i>Science</i> , 2006, 313, 1426-1428.	6.0	262
2	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.	1.1	91
3	Geochemistry and mineralogy of REY-rich mud in the eastern Indian Ocean. <i>Journal of Asian Earth Sciences</i> , 2014, 93, 25-36.	1.0	87
4	Uranium isotope systematics of ferromanganese crusts in the Pacific Ocean: Implications for the marine ²³⁸ U/ ²³⁵ U isotope system. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 146, 43-58.	1.6	85
5	Discovery of extremely REY-rich mud in the western North Pacific Ocean. <i>Geochemical Journal</i> , 2016, 50, 557-573.	0.5	68
6	Evidence for recycled plate material in Pacific upper mantle unrelated to plumes. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3028-3037.	1.6	59
7	Rare-earth, major, and trace element geochemistry of deep-sea sediments in the Indian Ocean: Implications for the potential distribution of REY-rich mud in the Indian Ocean. <i>Geochemical Journal</i> , 2015, 49, 621-635.	0.5	51
8	Geology and geochemistry of ferromanganese nodules in the Japanese Exclusive Economic Zone around Minamitorishima Island. <i>Geochemical Journal</i> , 2016, 50, 539-555.	0.5	50
9	Petrology and geochemistry of cross-chains in the Izu-Bonin back arc: Three mantle components with contributions of hydrous liquids from a deeply subducted slab. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	48
10	Geological factors responsible for REY-rich mud in the western North Pacific Ocean: Implications from mineralogy and grain size distributions. <i>Geochemical Journal</i> , 2016, 50, 591-603.	0.5	46
11	Geochemistry of REY-rich mud in the Japanese Exclusive Economic Zone around Minamitorishima Island. <i>Geochemical Journal</i> , 2016, 50, 575-590.	0.5	42
12	A new and prospective resource for scandium: Evidence from the geochemistry of deep-sea sediment in the western North Pacific Ocean. <i>Ore Geology Reviews</i> , 2018, 102, 260-267.	1.1	41
13	Petit-spot lava fields off the central Chile trench induced by plate flexure. <i>Geochemical Journal</i> , 2013, 47, 249-257.	0.5	39
14	Petit-spot geology reveals melts in upper-most asthenosphere dragged by lithosphere. <i>Earth and Planetary Science Letters</i> , 2015, 426, 267-279.	1.8	35
15	Backarc volcanism along the en echelon seamounts: The Enpo seamount chain in the northern Izu-Ogasawara arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	34
16	Missing western half of the Pacific late: Geochemical nature of the Izu-Bonin arc: Implications for the Pacific Ridge interaction with a stationary boundary between the Indian and Pacific mantles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 3309-3332.	1.0	34
17	Petit-spot as definitive evidence for partial melting in the asthenosphere caused by CO ₂ . <i>Nature Communications</i> , 2017, 8, 14302.	5.8	33
18	Acoustic characterization of pelagic sediments using sub-bottom profiler data: Implications for the distribution of REY-rich mud in the Minamitorishima EEZ, western Pacific. <i>Geochemical Journal</i> , 2016, 50, 605-619.	0.5	28

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19	Significant impacts of pelagic clay on average chemical composition of subducting sediments: New insights from discovery of extremely rare-earth elements and yttrium-rich mud at Ocean Drilling Program Site 1149 in the western North Pacific Ocean. <i>Journal of Asian Earth Sciences</i> , 2019, 186, 104059.	1.0	24
20	Chemostratigraphic Correlations of Deep-Sea Sediments in the Western North Pacific Ocean: A New Constraint on the Distribution of Mud Highly Enriched in Rare-Earth Elements. <i>Minerals (Basel)</i> , 2021, 11, 1100.	0.8	13
21	REY-Rich Mud. <i>Fundamental Theories of Physics</i> , 2015, , 79-127.	0.1	17
22	Direct ascent to the surface of asthenospheric magma in a region of convex lithospheric flexure. <i>International Geology Review</i> , 2018, 60, 1231-1243.	1.1	16
23	Visualisation method for the broad distribution of seafloor ferromanganese deposits. <i>Marine Georesources and Geotechnology</i> , 2021, 39, 267-279.	1.2	15
24	A Paleogene magmatic overprint on Cretaceous seamounts of the western Pacific. <i>Island Arc</i> , 2021, 30, e12386.	0.5	15
25	Petit-spot volcanoes on the oldest portion of the Pacific plate. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019, 154, 103142.	0.6	13
26	The mantle structure below petit-spot volcanoes. <i>Communications Earth & Environment</i> , 2022, 3, .	2.6	12
27	Fine-scale chemostratigraphy of cross-sectioned hydrogenous ferromanganese nodules from the western North Pacific. <i>Island Arc</i> , 2021, 30, e12395.	0.5	11
28	Regional mantle heterogeneity regulates melt production along the Réunion hotspot-influenced Central Indian Ridge. <i>Geochemical Journal</i> , 2014, 48, 433-449.	0.5	10
29	Submarine lava fields in French Polynesia. <i>Marine Geology</i> , 2016, 373, 39-48.	0.9	9
30	Myojin Rift, Izu-Bonin Arc as the Modern Analog of Hokuroku Basin, Northeast Japan: Geotectonic Significance of the New Hydrothermal Deposit in the Back-Arc Rift. <i>Resource Geology</i> , 2008, 58, 301-312.	0.3	8
31	Melting of recycled ancient crust responsible for the Gutenberg discontinuity. <i>Nature Communications</i> , 2020, 11, 172.	5.8	8
32	Tokoro Belt (NE Hokkaido): an exhumed, Jurassic-Early Cretaceous seamount in the Late Cretaceous accretionary prism of northern Japan. <i>Geological Magazine</i> , 2021, 158, 72-83.	0.9	8
33	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, .	1.0	8
34	New insights into the oceanic lithosphere from petit-spot volcanoes and "Super-Mohole" project. <i>Journal of the Geological Society of Japan</i> , 2010, 116, 1-12.	0.2	7
35	Three-Dimensional Structural Analysis of Ferromanganese Nodules from the Western North Pacific Ocean Using X-ray Computed Tomography. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1100.	0.8	7
36	Multi-approach characterization of shallow-water carbonates off Minamitorishima and their depositional settings/history. <i>Island Arc</i> , 2021, 30, e12400.	0.5	6

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37	A direct evidence for disturbance of whole sediment layer in the subducting Pacific plate by petit-spot magma–water/sediment interaction. <i>Marine Geology</i> , 2022, 444, 106712.	0.9	6
38	Intermittent Beginning to the Formation of Hydrogenous Ferromanganese Nodules in the Vast Field: Insights from Multi-Element Chemostratigraphy Using Microfocus X-ray Fluorescence. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1246.	0.8	3
39	Near bottom MBES survey mounted on a HOV at 5500m depth. , 2022, , .		2
40	Petrology, geochemistry, and geochronology of plutonic rocks from the present Southwest Indian Ridge: Implications for dropstone distribution in the Indian Ocean. <i>Polar Science</i> , 2021, 29, 100725.	0.5	0
41	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.	0.5	0
42	Editorial for Special Issue “Deep-Sea Ferromanganese Nodules and Related Mineral Resources: Genesis, Exploration, and Mining”. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 686.	0.8	0