

Naoto Hirano

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

1,063
citations

18
h-index

32
g-index

49
ext. papers

1,239
ext. citations

5.4
avg, IF

4.15
L-index

#	Paper	IF	Citations
45	Volcanism in response to plate flexure. <i>Science</i> , 2006 , 313, 1426-8	33.3	210
44	The chemical structure of the Hawaiian mantle plume. <i>Nature</i> , 2005 , 436, 837-40	50.4	83
43	Mechanisms of low-flux intraplate volcanic fields Basin and Range (North America) and northwest Pacific Ocean. <i>Geology</i> , 2010 , 38, 55-58	5	60
42	Evidence for recycled plate material in Pacific upper mantle unrelated to plumes. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 3028-3037	5.5	49
41	Seamounts, knolls and petit-spot monogenetic volcanoes on the subducting Pacific Plate. <i>Basin Research</i> , 2008 , 20, 543-553	3.2	48
40	Depleted mantle wedge and sediment fingerprint in unusual basalts from the Manihiki Plateau, central Pacific Ocean. <i>Geology</i> , 2007 , 35, 595	5	45
39	Young, olivine xenocryst-bearing alkali-basalt from the oceanward slope of the Japan Trench. <i>Contributions To Mineralogy and Petrology</i> , 2004 , 148, 47-54	3.5	44
38	Paleo-Moho depth determined from the pressure of CO ₂ fluid inclusions: Raman spectroscopic barometry of mantle- and crust-derived rocks. <i>Earth and Planetary Science Letters</i> , 2007 , 253, 369-377	5.3	40
37	Geology and geochemistry of ferromanganese nodules in the Japanese Exclusive Economic Zone around Minamitorishima Island. <i>Geochemical Journal</i> , 2016 , 50, 539-555	0.9	36
36	Melt-rich lithosphere-asthenosphere boundary inferred from petit-spot volcanoes. <i>Geology</i> , 2014 , 42, 967-970	5	35
35	Petit-spot lava fields off the central Chile trench induced by plate flexure. <i>Geochemical Journal</i> , 2013 , 47, 249-257	0.9	33
34	Petit-spot volcanism: A new type of volcanic zone discovered near a trench. <i>Geochemical Journal</i> , 2011 , 45, 157-167	0.9	30
33	Petit-spot geology reveals melts in upper-most asthenosphere dragged by lithosphere. <i>Earth and Planetary Science Letters</i> , 2015 , 426, 267-279	5.3	29
32	Missing western half of the Pacific Plate: Geochemical nature of the Izanagi-Pacific Ridge interaction with a stationary boundary between the Indian and Pacific mantles. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 3309-3332	3.6	28
31	Subsurface structure of the petit-spot volcanoes on the northwestern Pacific Plate. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	25
30	Petit-spot as definitive evidence for partial melting in the asthenosphere caused by CO ₂ . <i>Nature Communications</i> , 2017 , 8, 14302	17.4	23
29	Carbon dioxide emission to Earth's surface by deep-sea volcanism. <i>Geology</i> , 2013 , 41, 1167-1170	5	20

28	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	5.3	19
27	Noble gas isotopic compositions of mantle xenoliths from northwestern Pacific lithosphere. <i>Chemical Geology</i> , 2009 , 268, 313-323	4.2	18
26	Construction of I-Xe and 40Ar-39Ar Dating System Using a Modified VG3600 Mass Spectrometer and the First I-Xe Data Obtained in Japan. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2004 , 52, 219-229	0.2	18
25	Conformity and precision of CO ₂ densimetry in CO ₂ inclusions: microthermometry versus Raman microspectroscopic densimetry. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 1126-1133	2.3	17
24	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,	2.9	16
23	Retentivity of CO ₂ in fluid inclusions in mantle minerals. <i>European Journal of Mineralogy</i> , 2011 , 23, 805-815	1.5	16
22	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. <i>Chemical Geology</i> , 2007 , 238, 1-18	4.2	15
21	Direct ascent to the surface of asthenospheric magma in a region of convex lithospheric flexure. <i>International Geology Review</i> , 2018 , 60, 1231-1243	2.3	12
20	Occurrence of the sandstone included in the alkali-basalt lava flow from the western Mineoka Belt, Boso Peninsula, Japan, and its tectonic significance.. <i>Journal of the Geological Society of Japan</i> , 2002 , 108, 691-700	0.6	12
19	Submarine lava fields in French Polynesia. <i>Marine Geology</i> , 2016 , 373, 39-48	3.3	8
18	Role of plutonic and metamorphic block exhumation in a forearc ophiolite mélange belt: An example from the Mineoka belt, Japan 2011 ,		8
17	Petit-spot volcanoes on the oldest portion of the Pacific plate. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2019 , 154, 103142	2.5	6
16	Relict chromian spinels in Tulu Dimtu serpentinites and listvenite, Western Ethiopia: implications for the timing of listvenite formation. <i>International Geology Review</i> , 2017 , 59, 1621-1631	2.3	6
15	A Paleogene magmatic overprint on Cretaceous seamounts of the western Pacific. <i>Island Arc</i> , 2021 , 30, e12386	2	6
14	Long-lived early Cretaceous seamount volcanism in the Mariana Trench, Western Pacific Ocean. <i>Marine Geology</i> , 2002 , 189, 371-379	3.3	5
13	The nature of faulting and deformation in the Mineoka ophiolite, NW Pacific Rim. <i>Geological Society Special Publication</i> , 2003 , 218, 299-314	1.7	5
12	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	0.6	5
11	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	5

10	Melting of recycled ancient crust responsible for the Gutenberg discontinuity. <i>Nature Communications</i> , 2020 , 11, 172	17.4	5
9	Geochemical/Petrological Interactions between Subducting Lithosphere and Petit-spot Magmas. <i>Journal of Geography (Chigaku Zasshi)</i> , 2017 , 126, 195-206	0.5	4
8	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	2	4
7	Noble gas isotopic compositions of seamount lavas from the central Chile trench: Implications for petit-spot volcanism and the lithosphere asthenosphere boundary. <i>Earth and Planetary Science Letters</i> , 2020 , 552, 116611	5.3	3
6	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	3.3	2
5	Multi-approach characterization of shallow-water carbonates off Minamitorishima and their depositional settings/history. <i>Island Arc</i> , 2021 , 30, e12400	2	2
4	Alkali basalt from the Seifu Seamount in the Sea of Japan: post-spreading magmatism in a back-arc setting. <i>Solid Earth</i> , 2020 , 11, 23-36	3.3	1
3	Tectonic implications of carbonate deposits on the eastern slope of the Hahajima Seamount in the collision zone between the Izu-Bonin Arc on the Philippine Sea Plate and the Ogasawara Plateau on the Pacific Plate. <i>Island Arc</i> , 2020 , 29, e12368	2	1
2	Cretaceous to Miocene NW Pacific Plate Kinematic Constraints: Paleomagnetism and Ar-Ar Geochronology in the Mineoka Ophiolite Mélange (Japan). <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021492	3.6	1
1	The mantle structure below petit-spot volcanoes. <i>Communications Earth & Environment</i> , 2022 , 3,	6.1	1