

Masahiko Honda

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.

65
papers

3,038
citations

30
h-index

54
g-index

65
ext. papers

3,294
ext. citations

7.2
avg, IF

4.76
L-index

#	Paper	IF	Citations
65	Possible solar noble-gas component in Hawaiian basalts. <i>Nature</i> , 1991 , 349, 149-151	50.4	264
64	U-Th-He dating of apatite: A potential thermochronometer. <i>Geochimica Et Cosmochimica Acta</i> , 1987 , 51, 2865-2868	5.5	238
63	Noble gases in submarine pillow basalt glasses from Loihi and Kilauea, Hawaii: A solar component in the Earth. <i>Geochimica Et Cosmochimica Acta</i> , 1993 , 57, 859-874	5.5	180
62	High abundances of noble gas and chlorine delivered to the mantle by serpentinite subduction. <i>Nature Geoscience</i> , 2011 , 4, 807-812	18.3	165
61	Production of nucleogenic neon in the Earth from natural radioactive decay. <i>Journal of Geophysical Research</i> , 1997 , 102, 10291-10298		135
60	Global cooling initiated stony deserts in central Australia 24 Ma, dated by cosmogenic ^{21}Ne - ^{10}Be . <i>Geology</i> , 2005 , 33, 993	5	116
59	Sedimentary noble gases. <i>Geochimica Et Cosmochimica Acta</i> , 1980 , 44, 1875-1884	5.5	99
58	Subduction zone fluxes of halogens and noble gases in seafloor and forearc serpentinites. <i>Earth and Planetary Science Letters</i> , 2013 , 365, 86-96	5.3	96
57	Widespread assimilation of a seawater-derived component at Loihi Seamount, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 2749-2761	5.5	90
56	Preservation of near-solar neon isotopic ratios in Icelandic basalts. <i>Earth and Planetary Science Letters</i> , 2000 , 180, 309-324	5.3	84
55	Atmospheric contamination: A possible source for heavy noble gases in basalts from Loihi Seamount, Hawaii. <i>Geophysical Research Letters</i> , 1990 , 17, 705-708	4.9	81
54	Noble gases in diamonds: Occurrences of solarlike helium and neon. <i>Journal of Geophysical Research</i> , 1987 , 92, 12507		79
53	Quantifying brine assimilation by submarine magmas: Examples from the Galapagos Spreading Centre and Lau Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 123, 150-165	5.5	77
52	Systematic elemental fractionation of mantle-derived helium, neon, and argon in mid-oceanic ridge glasses. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 2863-2874	5.5	73
51	Halogen systematics (Cl, Br, I) in Mid-Ocean Ridge Basalts: A Macquarie Island case study. <i>Geochimica Et Cosmochimica Acta</i> , 2012 , 81, 82-93	5.5	71
50	Plume-like neon in a metasomatic apatite from the Australian lithospheric mantle. <i>Nature</i> , 1997 , 388, 162-164	50.4	65
49	Noble gases in anhydrous lherzolites from the newer volcanics, southeastern Australia: a MORB-like reservoir in the subcontinental mantle. <i>Geochimica Et Cosmochimica Acta</i> , 1998 , 62, 2521-2533	5.5	62

48	Noble gases in pyroxenites and metasomatised peridotites from the Newer Volcanics, southeastern Australia: implications for mantle metasomatism. <i>Chemical Geology</i> , 2000 , 168, 49-73	4.2	60
47	Isotopic tracing of volcanic source regions from Hawaii: decoupling of gaseous from lithophile magma components. <i>Earth and Planetary Science Letters</i> , 1996 , 144, 185-198	5.3	54
46	Noble gases in submarine pillow basalt glasses from the Lau Basin: Detection of a solar component in backarc basin basalts. <i>Earth and Planetary Science Letters</i> , 1993 , 120, 135-148	5.3	54
45	Helium, neon and argon isotope systematics in Kerguelen ultramafic xenoliths: implications for mantle source signatures. <i>Earth and Planetary Science Letters</i> , 1996 , 138, 29-38	5.3	53
44	Solar noble gases in the Earth: The systematics of helium-neon isotopes in mantle derived samples. <i>Lithos</i> , 1993 , 30, 257-265	2.9	53
43	Noble gases in mafic phenocrysts and xenoliths from New Zealand. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 4411-4427	5.5	52
42	Astronomical calibration of ⁴⁰ Ar/ ³⁹ Ar reference minerals using high-precision, multi-collector (ARGUSVI) mass spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 196, 351-369	5.5	49
41	Experimental studies of He and Ar degassing during rock fracturing. <i>Earth and Planetary Science Letters</i> , 1982 , 59, 429-436	5.3	49
40	Primordial helium and neon in the Earth: A speculation on early degassing. <i>Geophysical Research Letters</i> , 1998 , 25, 1951-1954	4.9	48
39	Subduction-related halogens (Cl, Br and I) and H ₂ O in magmatic glasses from Southwest Pacific Backarc Basins. <i>Earth and Planetary Science Letters</i> , 2014 , 400, 165-176	5.3	45
38	The atmospheric inventory of xenon and noble gases in shales: THE PLASTIC BAG EXPERIMENT. <i>Journal of Geophysical Research</i> , 1984 , 89, 4597-4611		43
37	Fluid sources and the role of abiogenic-CH ₄ in Archean gold mineralization: Constraints from noble gases and halogens. <i>Precambrian Research</i> , 2011 , 189, 313-327	3.9	42
36	A primordial solar-neon enriched component in the source of EM-I-type ocean island basalts from the Pitcairn Seamounts, Polynesia. <i>Earth and Planetary Science Letters</i> , 2005 , 236, 597-612	5.3	39
35	Unusual noble gas compositions in polycrystalline diamonds: preliminary results from the Jwaneng kimberlite, Botswana. <i>Chemical Geology</i> , 2004 , 203, 347-358	4.2	29
34	Cosmogenic ²¹ Ne exposure dating of young basaltic lava flows from the Newer Volcanic Province, western Victoria, Australia. <i>Quaternary Geochronology</i> , 2010 , 5, 1-9	2.7	28
33	The noble gas systematics of late-orogenic H ₂ O/O ₂ fluids, Mt Isa, Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 1428-1450	5.5	27
32	Redetermination of the ²¹ Ne relative abundance of the atmosphere, using a high resolution, multi-collector noble gas mass spectrometer (HELIX-MC Plus). <i>International Journal of Mass Spectrometry</i> , 2015 , 387, 1-7	1.9	26
31	Halogens and noble gases in Mathematician Ridge meta-gabbros, NE Pacific: implications for oceanic hydrothermal root zones and global volatile cycles. <i>Contributions To Mineralogy and Petrology</i> , 2015 , 170, 1	3.5	25

30	40Ar-39Ar ages of guyots in the western Pacific and discussion of their evolution. <i>Geophysical Journal International</i> , 1977 , 51, 475-485	2.6	24
29	Summary of geochronological studies of submarine rocks from the western Pacific Ocean. <i>Geodynamic Series</i> , 1983 , 137-142		23
28	New constraints on regional brecciation in the Wernecke Mountains, Canada, from He, Ne, Ar, Kr, Xe, Cl, Br and I in fluid inclusions. <i>Chemical Geology</i> , 2008 , 255, 33-46	4.2	22
27	Cosmogenic 3He and 21Ne surface exposure dating of young basalts from Southern Mendoza, Argentina. <i>Quaternary Geochronology</i> , 2014 , 19, 76-86	2.7	19
26	Hydrothermal Fluid Origins of Carbonate-Hosted Pb-Zn Deposits of the Sanjiang Thrust Belt, Tibet: Indications from Noble Gases and Halogens. <i>Economic Geology</i> , 2017 , 112, 1247-1268	4.3	18
25	I-Xe systematics in LL chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 1988 , 52, 1113-1121	5.5	18
24	Xenon compositions of magmatic zircons in 3.64 and 3.81 Ga meta-granitoids from Greenland. Search for extinct 244Pu in ancient terrestrial rocks. <i>Earth and Planetary Science Letters</i> , 2003 , 207, 69-82	5.3	14
23	Sea water weathering effect on K-Ar age of submarine basalts. <i>Geochimica Et Cosmochimica Acta</i> , 1977 , 41, 453-461	5.5	14
22	Age determinations of eastern Pacific seamounts (Henderson, 6 and 7). Implications for near-ridge and intraplate volcanism. <i>Marine Geology</i> , 1987 , 74, 79-84	3.3	12
21	Performance of the High Resolution, Multi-collector Helix MC Plus Noble Gas Mass Spectrometer at the Australian National University. <i>Journal of the American Society for Mass Spectrometry</i> , 2016 , 27, 1937-1943	3.5	11
20	Co-rich sulfides in mantle peridotites from Penghu Islands, Taiwan: Footprints of Proterozoic mantle plumes under the Cathaysia Block. <i>Journal of Asian Earth Sciences</i> , 2010 , 37, 229-245	2.8	11
19	Primordial and recycled helium isotope signatures in the mantle transition zone. <i>Science</i> , 2019 , 365, 692-694	5.9	10
18	Recycled volatiles in mantle-derived diamonds: Evidence from nitrogen and noble gas isotopic data. <i>Earth and Planetary Science Letters</i> , 2006 , 252, 215-219	5.3	10
17	Isotope fractionation of neon during stepheating extraction?: a comment on Be-interpretation of the existence of a primitive plume under Australia based on neon isotope fractionation during step heating by Gautheron and Moreira (2003). <i>Terra Nova</i> , 2004 , 16, 23-26	3	10
16	He, Ne and Ar in peridotitic and eclogitic paragenesis diamonds from the Jwaneng kimberlite, Botswana. Implications for mantle evolution and diamond formation ages. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 43-51	5.3	9
15	Contamination of Loihi magmas with atmosphere derived noble gases: A Reply to Comments by T. Staudacher, P. Sarda and C. Allegre. <i>Geophysical Research Letters</i> , 1991 , 18, 749-752	4.9	9
14	Trapping of rare gases during the condensation of solids. <i>Earth and Planetary Science Letters</i> , 1979 , 43, 197-200	5.3	8
13	Noble gas geochemistry of fluid inclusions in South African diamonds: implications for the origin of diamond-forming fluids. <i>Mineralogy and Petrology</i> , 2018 , 112, 181-195	1.6	7

12	Radiogenic, nucleogenic and fissiogenic noble gas compositions in early Archaean magmatic zircons from Greenland. <i>Geochemical Journal</i> , 2004 , 38, 265-269	0.9	7
11	U-Th/He systematics of fluid-rich fibrous diamonds: Evidence for pre- and syn-kimberlite eruption ages. <i>Chemical Geology</i> , 2019 , 515, 22-36	4.2	5
10	Noble gas and carbon isotope ratios in Argyle diamonds, Western Australia: Evidence for a deeply subducted volatile component. <i>Australian Journal of Earth Sciences</i> , 2012 , 59, 1135-1142	1.4	5
9	Diamond-forming media through time: Trace element and noble gas systematics of diamonds formed over 3 billion years of Earth's history. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 257, 266-283	5.5	4
8	Quaternary volcanic evolution in the continental back-arc of southern Mendoza, Argentina. <i>Journal of South American Earth Sciences</i> , 2018 , 84, 88-103	2	4
7	$^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of mafic rocks from the granite-hyalite terrane of southeastern Missouri. <i>Precambrian Research</i> , 1985 , 27, 301-306	3.9	4
6	Minimisation of pressure dependent mass discrimination in the ion source of the Helix MC Plus noble gas mass spectrometer. <i>Chemical Geology</i> , 2017 , 473, 50-54	4.2	3
5	Terrestrial primordial neon. <i>Nature</i> , 1991 , 352, 388-388	50.4	3
4	Contrasting noble gas compositions of peridotitic and eclogitic monocrystalline diamonds from the Argyle lamproite, Western Australia. <i>Lithos</i> , 2019 , 344-345, 193-206	2.9	1
3	Systematic elemental fractionation of helium, neon and argon in MORB glasses. <i>Science Bulletin</i> , 1998 , 43, 53-53		1
2	Primordial Solar Noble-Gas Component in the Earth: Consequences for the Origin and Evolution of the Earth and Its Atmosphere 159-188		1
1	Production of ^{21}Ne in depth-profiled olivine from a 54 Ma basalt sequence, Eastern Highlands (37° S), Australia. <i>Geochimica Et Cosmochimica Acta</i> , 2018 , 220, 276-290	5.5	