Hirochika Sumino

List of Publications by Year
in descending order

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109	2,540	236925	223800
papers	citations	25 h-index	46 g-index

113	113	113	2558
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal energy and diffuse 4He and 3He degassing released in volcanic-geothermal systems. Renewable Energy, 2022, 182, 17-31.	8.9	3
2	Noble gas variation during partial crustal melting and magma ascent processes. Chemical Geology, 2022, 588, 120635.	3.3	4
3	Central vs. lateral growth and evolution of theÂ<Â100Âka Peinado composite volcano, southern Central Volcanic Zone of the Andes. Journal of Volcanology and Geothermal Research, 2022, 425, 107532.	2.1	6
4	Non-cratonic Diamonds from UHP Metamorphic Terranes, Ophiolites and Volcanic Sources. Reviews in Mineralogy and Geochemistry, 2022, 88, 191-255.	4.8	9
5	Alkalic to tholeiitic magmatism near a mid-ocean ridge: petrogenesis of the KR1 Seamount Trail adjacent to the Australian-Antarctic Ridge. International Geology Review, 2021, 63, 1215-1235.	2.1	4
6	Halogen heterogeneity in the subcontinental lithospheric mantle revealed by I/Br ratios in kimberlites and their mantle xenoliths from South Africa, Greenland, China, Siberia, Canada, and Brazil. American Mineralogist, 2021, , .	1.9	3
7	Cretaceous to Miocene NW Pacific Plate Kinematic Constraints: Paleomagnetism and Arâ€“Ar Geochronology in the Mineoka Ophiolite MÃ©lange (Japan). Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021492.	3.4	3
8	Formation of Stanley Patch volcanic cone: New insights into the evolution of Deception Island caldera (Antarctica). Journal of Volcanology and Geothermal Research, 2021, 415, 107249.	2.1	2
9	Geochemical and isotopic evidence of volcanic plumbing system processes from fumarolic gases of Taal volcano, Philippines, prior to the January 2020 eruption. Chemical Geology, 2021, 574, 120216.	3.3	3
10	Changes in the thermal energy and the diffuse 3He and 4He degassing prior to the 2014â€“2015 eruption of Pico do Fogo volcano, Cape Verde. Journal of Volcanology and Geothermal Research, 2021, 416, 107271.	2.1	6
11	Cycling of CO₂ and N₂ Along the Hikurangi Subduction Margin, New Zealand: An Integrated Geological, Theoretical, and Isotopic Approach. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009650.	2.5	10
12	Partial melting and subduction-related metasomatism recorded by geochemical and isotope (He-Ne-Ar-Sr-Nd) compositions of spinel lherzolite xenoliths from Coyhaique, Chilean Patagonia. Gondwana Research, 2021, 98, 257-276.	6.0	2
13	Determination of halogens in geological reference materials using neutron irradiation noble gas mass spectrometry. Chemical Geology, 2021, 582, 120420.	3.3	7
14	A Paleogene magmatic overprint on Cretaceous seamounts of the western Pacific. Island Arc, 2021, 30, e12386.	1.1	15
15	Multiple shock events recorded in the Northwest Africa 2139 LL6 chondrite: Implications for collisional histories of the LL chondrite parent body. Meteoritics and Planetary Science, 2021, 56, 2230.	1.6	0
16	Alkali basalt from the Seifu Seamount in the Sea of Japan: post-spreading magmatism in a back-arc setting. Solid Earth, 2020, 11, 23-36.	2.8	7
17	Archean to Paleoproterozoic seawater halogen ratios recorded by fluid inclusions in chert and hydrothermal quartz. American Mineralogist, 2020, 105, 1317-1325.	1.9	8
18	Origin of hydrocarbon and noble gases, carbon dioxide and molecular nitrogen in the Miocene strata of the eastern part of the Polish Carpathian Foredeep: Isotopic and geological approach. Applied Geochemistry, 2020, 122, 104732.	3.0	3

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19	Geomorphology, morphometry, spatial distribution and ages of mafic monogenetic volcanoes of the Peinado and Incahuasi fields, southernmost Central Volcanic Zone of the Andes. Journal of Volcanology and Geothermal Research, 2020, 401, 106966.	2.1	20
20	Fluid overpressure in subduction plate boundary caused by mantle-derived fluids. Earth and Planetary Science Letters, 2020, 538, 116199.	4.4	19
21	ÎD and Î18O variations of the magmatic system beneath Deception Island volcano (Antarctica): Implications for magma ascent and eruption forecasting. Chemical Geology, 2020, 542, 119595.	3.3	11
22	Neutron lifetime measurement with pulsed cold neutrons. Progress of Theoretical and Experimental Physics, 2020, 2020, .	6.6	16
23	Heat and Helium-3 Fluxes from Teide Volcano, Canary Islands, Spain. Geofluids, 2019, 2019, 1-12.	0.7	6
24	Origin of hydrocarbon and noble gases, carbon dioxide and molecular nitrogen in Devonian, Pennsylvanian and Miocene strata of the Polish Lublin and Ukrainian Lviv basins, southern part of the Upper Silesian Coal Basin and western part of the Carpathian Foredeep (Poland). Applied Geochemistry, 2019, 108, 104371.	3.0	5
25	Petit-spot volcanoes on the oldest portion of the Pacific plate. Deep-Sea Research Part I: Oceanographic Research Papers, 2019, 154, 103142.	1.4	13
26	Improved accuracy in the determination of the thermal cross section of ${}^{14}{m N}({m n},{m) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Physics, 2019, 2019, .	6.6	4
27	Halogen Heterogeneity in the Lithosphere and Evolution of Mantle Halogen Abundances Inferred From Intraplate Mantle Xenoliths. Geochemistry, Geophysics, Geosystems, 2019, 20, 952-973.	2.5	8
28	Variations in thermal state revealed by the geochemistry of fumarolic gases and hot-spring waters of the Tateyama volcanic hydrothermal system, Japan. Bulletin of Volcanology, 2019, 81, 1.	3.0	6
29	New project for precise neutron lifetime measurement at J-PARC. EPJ Web of Conferences, 2019, 219, 03003.	0.3	5
30	Recycled Components in Mantle Plumes Deduced From Variations in Halogens (Cl, Br, and I), Trace Elements, and 3 He/ 4 He Along the Hawaiianâ€Emperor Seamount Chain. Geochemistry, Geophysics, Geosystems, 2019, 20, 277-294.	2.5	10
31	Volcanology and inflation structures of an extensive basaltic lava flow in the Payenia Volcanic Province, extra-Andean back arc of Argentina. Andean Geology, 2019, 46, 279.	0.5	2
32	VolcanologÃa y geocronologÃa de extensos flujos basÃ¡lticos neÃ³geno cuaternarios del sureste de Payenia, centro-oeste de Argentina. Andean Geology, 2019, 46, 490.	0.5	3
33	Noble gas signals in corals predict submarine volcanic eruptions. Chemical Geology, 2018, 480, 28-34.	3.3	16
34	Eruptive history of Incahuasi, Falso Azufre and El CÃ³ndor Quaternary composite volcanoes, southern Central Andes. Bulletin of Volcanology, 2018, 80, 1.	3.0	17
35	Accurate Determination of the Absolute ³He/⁴He Ratio of a Synthesized Helium Standard Gas (Helium Standard of Japan, HESJ): Toward Revision of the Atmospheric ³He/⁴He Ratio. Geochemistry, Geophysics, Geosystems, 2018, 19, 3995-4005.	2.5	16
36	Fundamental Physics Activities with Pulsed Neutron at J-PARC(BL05). , 2018, , .		0

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37	The acid crater lake of Taal Volcano, Philippines: hydrogeochemical and hydroacoustic data related to the 2010â€“11 volcanic unrest. Geological Society Special Publication, 2017, 437, 131-152.	1.3	9
38	Surface CO ₂ emission and rising bubble plumes from degassing of crater lakes in SÃ£o Miguel Island, Azores. Geological Society Special Publication, 2017, 437, 233-252.	1.3	7
39	Instrumentation and Method Development for On-Site Analysis of Helium Isotopes. Analytical Chemistry, 2017, 89, 7535-7540.	6.5	11
40	Slab-derived components in the subcontinental lithospheric mantle beneath Chilean Patagonia: Geochemistry and Srâ€“Ndâ€“Pb isotopes of mantle xenoliths and host basalt. Lithos, 2017, 292-293, 179-197.	1.4	12
41	Evidence of a modern deep water magmatic hydrothermal system in the Canary Basin (eastern central) Tj ETQq1 1 0.784314 rgBT /Over	2.5	20
42	Slab-derived halogens and noble gases illuminate closed system processes controlling volatile element transport into the mantle wedge. Earth and Planetary Science Letters, 2017, 457, 106-116.	4.4	28
43	Constraints on Primordial Noble Gas Reservoir Deep in the Earth by High-Pressure and High-Temperature Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2017, 27, 266-277.	0.0	0
44	Widespread distribution of ascending fluids transporting mantle helium in the fore-arc region and their upwelling processes: Noble gas and major element composition of deep groundwater in the Kii Peninsula, southwest Japan. Geochimica Et Cosmochimica Acta, 2016, 182, 173-196.	3.9	274
45	Noble gas composition of subcontinental lithospheric mantle: An extensively degassed reservoir beneath Southern Patagonia. Earth and Planetary Science Letters, 2016, 450, 263-273.	4.4	12
46	Gas pathways and remotely triggered earthquakes beneath Mount Fuji, Japan. Geology, 2016, 44, 127-130.	4.4	19
47	The contribution of hydrothermally altered ocean crust to the mantle halogen and noble gas cycles. Geochimica Et Cosmochimica Acta, 2016, 183, 106-124.	3.9	64
48	Hydrochemistry and noble gas geochemistry of geothermal waters in Chungcheong Province, South Korea. Geochemical Journal, 2016, 50, 89-103.	1.0	4
49	Geochemical evidence of different sources of long-period seismic events at Deception volcano, South Shetland Islands, Antarctica. Antarctic Science, 2015, 27, 557-565.	0.9	7
50	Traces of Slab-derived Fluids Revealed by Halogens in Mantle-derived Rocks. Journal of Geography (Chigaku Zasshi), 2015, 124, 445-471.	0.3	3
51	Development of time projection chamber for precise neutron lifetime measurement using pulsed cold neutron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 799, 187-196.	1.6	13
52	History and Current Status of Noble Gas Mass Spectrometry to Develop New Ideas Based on Study of the Past. Journal of the Mass Spectrometry Society of Japan, 2015, 63, 1-30.	0.1	3
53	Diffuse CO2 degassing and volcanic activity at Cape Verde islands, West Africa. Earth, Planets and Space, 2015, 67, .	2.5	16
54	Carbon dioxide and helium dissolved gases in groundwater at central Tenerife Island, Canary Islands: chemical and isotopic characterization. Bulletin of Volcanology, 2015, 77, 1.	3.0	8

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55	Reply to comment from Blanco et al. (2015) on â€œEvidence from acoustic imaging for submarine volcanic activity in 2012 off the west coast of El Hierro (Canary Islands, Spain) by PÃ©rez et al. [Bull. Volcanol. (2014), 76:882â€“896]. Bulletin of Volcanology, 2015, 77, 1.	3.0	5
56	Petit-spot geology reveals melts in upper-most asthenosphere dragged by lithosphere. Earth and Planetary Science Letters, 2015, 426, 267-279.	4.4	35
57	Volcanoâ€“iceâ€“sea interaction in the Cerro Santa Marta area, northwest James Ross Island, Antarctic Peninsula. Journal of Volcanology and Geothermal Research, 2015, 297, 89-108.	2.1	11
58	Diffuse volcanic gas emission and thermal energy release from the summit crater of Pico do Fogo, Cape Verde. Bulletin of Volcanology, 2015, 77, 1.	3.0	26
59	Dynamics of diffuse carbon dioxide emissions from Cumbre Vieja volcano, La Palma, Canary Islands. Bulletin of Volcanology, 2015, 77, 1.	3.0	30
60	Evidence from acoustic imaging for submarine volcanic activity in 2012 off the west coast of El Hierro (Canary Islands, Spain). Bulletin of Volcanology, 2014, 76, 1.	3.0	14
61	Leakage of magmaticâ€“hydrothermal volatiles from a crater bottom formed by a submarine eruption in 1989 at Teishi Knoll, Japan. Journal of Volcanology and Geothermal Research, 2014, 270, 90-98.	2.1	4
62	Lateral magma intrusion from a caldera-forming magma chamber: Constraints from geochronology and geochemistry of volcanic products from lateral cones around the Aso caldera, SW Japan. Chemical Geology, 2013, 352, 202-210.	3.3	12
63	Evolution history of the crust underlying Cerro Pampa, Argentine Patagonia: Constraint from LA-ICPMS U-Pb ages for exotic zircons in the Mid-Miocene adakite. Geochemical Journal, 2013, 47, 235-247.	1.0	8
64	Diffusive helium emissions as a precursory sign of volcanic unrest. Geology, 2013, 41, 539-542.	4.4	72
65	Hydrous fluid as the growth media of natural polycrystalline diamond, carbonado: Implication from IR spectra and microtextural observations. American Mineralogist, 2012, 97, 1366-1372.	1.9	6
66	Fumarole/plume and diffuse CO2 emission from Sierra Negra caldera, Galapagos archipelago. Bulletin of Volcanology, 2012, 74, 1509-1519.	3.0	25
67	A magmatic source for fumaroles and diffuse degassing from the summit crater of Teide Volcano (Tenerife, Canary Islands): a geochemical evidence for the 2004â€“2005 seismicâ€“volcanic crisis. Bulletin of Volcanology, 2012, 74, 1465-1483.	3.0	37
68	Helium emission at Cumbre Vieja volcano, La Palma, Canary Islands. Chemical Geology, 2012, 312-313, 138-147.	3.3	23
69	He-Ar-H-O isotopic signatures in AuAg bearing ore fluids of the Sunshin epithermal gold-silver ore deposits, South Korea. Chemical Geology, 2012, 320-321, 128-139.	3.3	10
70	Analysis of long- and short-term temporal variations of the diffuse CO2 emission from Timanfaya volcano, Lanzarote, Canary Islands. Applied Geochemistry, 2012, 27, 2486-2499.	3.0	15
71	Construction of a Newly Designed Small-Size Mass Spectrometer for Helium Isotope Analysis: Toward the Continuous Monitoring Of 3He/4He Ratios In Natural Fluids. Mass Spectrometry, 2012, 1, A0009-A0009.	0.6	4
72	Rifting of Kyushu, Japan, based on the fault-controlled concurrent eruption of oceanic island basalt-type and island arc-type lavas. Bulletin of Volcanology, 2012, 74, 1121-1139.	3.0	11

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73	Kâ€“Ar ages determined for post-caldera volcanic products from Aso volcano, central Kyushu, Japan. Journal of Volcanology and Geothermal Research, 2012, 229-230, 64-73.	2.1	26
74	Deep-mantle-derived noble gases in metamorphic diamonds from the Kokchetav massif, Kazakhstan. Earth and Planetary Science Letters, 2011, 307, 439-449.	4.4	20
75	Helium isotopes in the Izu Peninsula, Japan: Relation of magma and crustal activity. Journal of Volcanology and Geothermal Research, 2011, 199, 118-126.	2.1	11
76	Carbon dioxide emission from Katanuma volcanic lake, Japan. Earth, Planets and Space, 2011, 63, 1151-1156.	2.5	15
77	Single grain noble gas analysis of Antarctic micrometeorites by stepwise heating method with a newly constructed miniature furnace. Earth, Planets and Space, 2011, 63, 1097-1111.	2.5	6
78	Origin and fate of deep-sea seeping methane bubbles at Kuroshima Knoll, Ryukyu forearc region, Japan. Geochemical Journal, 2010, 44, 461-476.	1.0	22
79	Seawater-derived noble gases and halogens preserved in exhumed mantle wedge peridotite. Earth and Planetary Science Letters, 2010, 294, 163-172.	4.4	113
80	Progressive Melt Extraction from Upwelling Mantle Constrained by the Kita-Matsuura Basalts in NW Kyushu, SW Japan. Journal of Petrology, 2009, 50, 725-779.	2.8	27
81	Retroarc volcanism in the northern San Rafael Block (34Â°â€“35Â°30â€²S), southern Central Andes: Occurrence, age, and tectonic setting. Journal of Volcanology and Geothermal Research, 2009, 186, 169-185.	2.1	78
82	Adjacent releases of mantle helium and soil CO₂ from active faults: Observations from the Marmara region of the North Anatolian Fault zone, Turkey. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	35
83	Ore-forming mechanism for the Xiaoxinancha Au-rich Cu deposit in Yanbian, Jilin Province, China: Evidence from noble gas isotope geochemistry of fluid inclusions in minerals. Science in China Series D: Earth Sciences, 2008, 51, 216-228.	0.9	26
84	Magmatic processes of Unzen volcano revealed by excess argon distribution in zero-age plagioclase phenocrysts. Journal of Volcanology and Geothermal Research, 2008, 175, 189-207.	2.1	8
85	Heâ€“Ar and Ndâ€“Sr isotopic compositions of late Pleistocene felsic plutonic back arc basin rocks from Ulleungdo volcanic island, South Korea: Implications for the genesis of young plutonic rocks in a back arc basin. Chemical Geology, 2008, 253, 180-195.	3.3	19
86	Searching and detecting earthquake geochemical precursors in CO₂-rich groundwaters from Galicia, Spain. Geochemical Journal, 2008, 42, 75-83.	1.0	28
87	Relationship between geological structure and helium isotopes in deep ground-water from the Osaka Basin: Application to deep groundwater hydrology. Geochemical Journal, 2008, 42, 61-74.	1.0	29
88	Deep mantle origin of kimberlite magmas revealed by neon isotopes. Geophysical Research Letters, 2006, 33, .	4.0	27
89	Mantle wedge deformation by subducting and rotating slab and its possible implication. Earth, Planets and Space, 2006, 58, 1087-1092.	2.5	6
90	Release of mantle helium from forearc region of the Southwest Japan arc. Chemical Geology, 2006, 233, 235-248.	3.3	40

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91	Nitrogen isotopes of the mantle: Insights from mineral separates. Geophysical Research Letters, 2005, 32, .	4.0	46
92	Diffuse CO2 efflux from Iwojima volcano, Izu-Ogasawara arc, Japan. Journal of Volcanology and Geothermal Research, 2005, 139, 147-161.	2.1	50
93	Variation in noble gas isotopic composition of gas samples from the Aegean arc, Greece. Journal of Volcanology and Geothermal Research, 2005, 140, 321-339.	2.1	64
94	Noble gas studies of mantle-derived xenoliths: mantle metasomatism revealed by noble gas isotopes-a review. Ganseki Kobutsu Kagaku, 2005, 34, 173-185.	0.1	2
95	Estimation of groundwater residence time in a geologically active region by coupling4He concentration with helium isotopic ratios. Geophysical Research Letters, 2005, 32, .	4.0	18
96	He-Ar and Nd-Sr isotopic compositions of ultramafic xenoliths and host alkali basalts from the Korean peninsula. Geochemical Journal, 2005, 39, 341-356.	1.0	44
97	Symmetrical Helium isotope distribution on the Cameroon Volcanic Line, West Africa. Chemical Geology, 2004, 203, 205-223.	3.3	65
98	Noble gas and carbon isotopes of fumarolic gas from Iwojima volcano, Izuâ€“Ogasawara arc, Japan: implications for the origin of unusual arc magmatism. Chemical Geology, 2004, 209, 153-173.	3.3	23
99	Lithium isotopic systematics of the mantle-derived ultramafic xenoliths: implications for EM1 origin. Earth and Planetary Science Letters, 2004, 217, 245-261.	4.4	119
100	Spatial and temporal variations of diffuse CO₂ degassing at the Santa Anaâ€“Izalcoâ€“Coatepeque volcanic complex, El Salvador, Central America. , 2004, , .		8
101	Quaternary volcanic activity of Hudson and Lautaro volcanoes, Chilean Patagonia: New constraints from K-Ar ages. Andean Geology, 2004, 31, .	0.5	37
102	Construction of I-Xe and 40Ar-39Ar Dating System Using a Modified VG3600 Mass Spectrometer and the First I-Xe Data Obtained in Japan. Journal of the Mass Spectrometry Society of Japan, 2004, 52, 219-229.	0.1	23
103	The 3He/4He ratio of the new internal He Standard of Japan (HESJ).. Geochemical Journal, 2002, 36, 191-195.	1.0	182
104	Precursory diffuse carbon dioxide degassing signature related to a 5.1 magnitude earthquake in El Salvador, Central America. Earth and Planetary Science Letters, 2002, 205, 81-89.	4.4	50
105	Highly Sensitive and Precise Measurement of Helium Isotopes Using a Mass Spectrometer with Double Collector System.. Journal of the Mass Spectrometry Society of Japan, 2001, 49, 61-68.	0.1	70
106	MÃ¶ssbauer studies on laser evaporated iron atoms and their reactions with oxygen in argon matrices. Applied Radiation and Isotopes, 2000, 52, 157-164.	1.5	34
107	High Â³He/4He ratio in xenoliths from Takashima: Evidence for plume type volcanism in southwestern Japan. Geophysical Research Letters, 2000, 27, 1211-1214.	4.0	20
108	Mantle-derived xenoliths with hotspot type helium in Cenozoic alkali, basalt, northwestern Kyushu, Japan. Science Bulletin, 1998, 43, 123-123.	1.7	0

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109	Plume-lithosphere interaction, and the formation of fibrous diamonds. Geochemical Perspectives Letters, 0, 8, 26-30.	5.0	16