

# Keiko Hattori

## List of Publications by Year in descending order

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105  
papers

5,473  
citations

87888

38  
h-index

82547

72  
g-index

110  
all docs

110  
docs citations

110  
times ranked

3984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermotectonic events recorded by U-Pb geochronology and Zr-in-rutile thermometry of Ti oxides in basement rocks along the P2 fault, eastern Athabasca Basin, Saskatchewan, Canada. <i>Bulletin of the Geological Society of America</i> , 2022, 134, 567-576.	3.3	5
2	Petrogenesis of Garnet Clinopyroxenite and Associated Dunite in Hujialin, Sulu Orogenic Belt, Eastern China. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 162.	2.0	1
3	Ultrahigh-Pressure Metamorphism and P-T Path of Xiaoxinzhuan Eclogites from the Southern Sulu Orogenic Belt, Eastern China, Based on Phase Equilibria Modelling. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 216.	2.0	2
4	Evolution of lithospheric mantle beneath the Maguan region, southwestern margin of the South China block based on mantle xenoliths in Miocene alkaline volcanic rocks. <i>Mineralogy and Petrology</i> , 2021, 115, 173-192.	1.1	2
5	Alteration Mineralogy of the Zhengguang Epithermal Au-Zn Deposit, Northeast China: Interpretation of Shortwave Infrared Analyses During Mineral Exploration and Assessment. <i>Economic Geology</i> , 2021, 116, 389-406.	3.8	27
6	Zircon Chemistry and Oxidation State of Magmas for the Duobaoshan-Tongshan Ore-Bearing Intrusions in the Northeastern Central Asian Orogenic Belt, NE China. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 503.	2.0	3
7	In situ characterization of forearc serpentinitized peridotite from the Sulu ultrahigh-pressure terrane: Behavior of fluid-mobile elements in continental subduction zone. <i>Geoscience Frontiers</i> , 2021, 12, 101139.	8.4	7
8	Igneous rocks related to porphyry $\text{Cu-Au}$ mineralization at the Dizon mine, Philippines. <i>Resource Geology</i> , 2021, 71, 392-408.	0.8	2
9	Petrology of green polished stone axes of the Jomon period from the Sannai-Maruyama site, Japan, investigating the origin of source rock. <i>Island Arc</i> , 2021, 30, e12384.	1.1	0
10	The origin of Ti-oxide minerals below and within the eastern Athabasca Basin, Canada. <i>American Mineralogist</i> , 2020, 105, 1875-1888.	1.9	6
11	Protracted Magmatism and Mineralized Hydrothermal Activity at the Gibraltar Porphyry Copper-Molybdenum Deposit, British Columbia. <i>Economic Geology</i> , 2020, 115, 1119-1136.	3.8	16
12	Ammonium abundance and short-wave infrared absorption spectra of altered rocks. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2020, 20, 451-460.	0.9	0
13	Early Palaeozoic sub-arc chromitite-bearing peridotite in the Kudi ophiolite on the westernmost Tibetan Plateau. <i>International Geology Review</i> , 2019, 61, 1105-1123.	2.1	3
14	A multivariate statistical approach identifying the areas underlain by potential porphyry-style Cu mineralization, south-central British Columbia, Canada. <i>Journal of Geochemical Exploration</i> , 2019, 202, 13-26.	3.2	5
15	Abyssal Serpentinites: Transporting Halogens from Earth's Surface to the Deep Mantle. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 61.	2.0	9
16	Gold Mineralization in Izu Peninsula, Central Japan, during Crustal Extension in Response to Double Subduction. <i>Resource Geology</i> , 2019, 69, 167-175.	0.8	0
17	Large Paleozoic and Mesozoic porphyry deposits in the Central Asian Orogenic Belt: Geodynamic settings, magmatic sources, and genetic models. <i>Gondwana Research</i> , 2018, 58, 161-194.	6.0	57
18	Identification of sandstones above blind uranium deposits using multivariate statistical assessment of compositional data, Athabasca Basin, Canada. <i>Journal of Geochemical Exploration</i> , 2018, 188, 229-239.	3.2	16

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19	Porphyry Copper Potential in Japan Based on Magmatic Oxidation State. <i>Resource Geology</i> , 2018, 68, 126-137.	0.8	23
20	Multielement statistical evidence for uraniferous hydrothermal activity in sandstones overlying the Phoenix uranium deposit, Athabasca Basin, Canada. <i>Mineralium Deposita</i> , 2018, 53, 493-508.	4.1	8
21	Mantle wedge serpentinites: A transient reservoir of halogens, boron, and nitrogen for the deeper mantle. <i>Geology</i> , 2018, 46, 883-886.	4.4	24
22	Mineral Inclusions in Chromite from the Chromite Deposit in the Kudi Ophiolite, Tibet, Proto-Tethys. <i>Acta Geologica Sinica</i> , 2017, 91, 469-485.	1.4	12
23	Experimental insight into redox transfer by iron- and sulfur-bearing serpentinite dehydration in subduction zones. <i>Earth and Planetary Science Letters</i> , 2017, 479, 133-143.	4.4	27
24	Characterizing fluids associated with the McArthur River U deposit, Canada, based on tourmaline trace element and stable (B, H) isotope compositions. <i>Chemical Geology</i> , 2017, 466, 417-435.	3.3	18
25	Shoshonitic- and adakitic magmatism of the Early Paleozoic age in the Western Kunlun orogenic belt, NW China: Implications for the early evolution of the northwestern Tibetan plateau. <i>Lithos</i> , 2017, 286-287, 345-362.	1.4	23
26	Tracing halogen and B cycling in subduction zones based on obducted, subducted and forearc serpentinites of the Dominican Republic. <i>Scientific Reports</i> , 2017, 7, 17776.	3.3	20
27	Protolith of the Stak eclogite in the northwestern Himalaya. <i>Italian Journal of Geosciences</i> , 2017, 136, 64-72.	0.8	8
28	Paragenesis and Composition of Tourmaline Types Along the P2 Fault and McArthur River Uranium Deposit, Athabasca Basin, Canada. <i>Canadian Mineralogist</i> , 2016, 54, 661-679.	1.0	15
29	Spinel and Aspidolite from the Des C�dres Dam Occurrence, Notre-Dame-du-Laus, Qu�bec, Canada. <i>Rocks and Minerals</i> , 2016, 91, 448-452.	0.1	2
30	Multivariate statistical analysis of the REE-mineralization of the Maw Zone, Athabasca Basin, Canada. <i>Journal of Geochemical Exploration</i> , 2016, 161, 98-111.	3.2	11
31	Volcano-hydrothermal system of Ebeko volcano, Paramushir, Kuril Islands: Geochemistry and solute fluxes of magmatic chlorine and sulfur. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 118-131.	2.1	31
32	Halogen (F, Cl, Br, I) behaviour in subducting slabs: A study of lawsonite blueschists in western Turkey. <i>Earth and Planetary Science Letters</i> , 2016, 442, 133-142.	4.4	49
33	Geochemical processes in the formation of "forest rings": examples of reduced chimney formation in the absence of mineral deposits. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2016, 16, 85-99.	0.9	4
34	Cumulates of arc magmas incorporated into the Sulu UHP metamorphic belt, eastern China. <i>International Geology Review</i> , 2016, 58, 703-718.	2.1	4
35	Eocene to Oligocene retrogression and recrystallization of the Stak eclogite in northwest Himalaya. <i>Lithos</i> , 2016, 240-243, 155-166.	1.4	21
36	Sulphur geodynamic cycle. <i>Scientific Reports</i> , 2015, 5, 8330.	3.3	64

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37	Compositional variation and timing of aluminum phosphate-sulfate minerals in the basement rocks along the P2 fault and in association with the McArthur River uranium deposit, Athabasca Basin, Saskatchewan, Canada. <i>American Mineralogist</i> , 2015, 100, 1386-1399.	1.9	20
38	Oxidation Condition and Metal Fertility of Granitic Magmas: Zircon Trace-Element Data from Porphyry Cu Deposits in the Central Asian Orogenic Belt. <i>Economic Geology</i> , 2015, 110, 1861-1878.	3.8	199
39	The influence of metamorphic grade on arsenic in metasedimentary bedrock aquifers: A case study from Western New England, USA. <i>Science of the Total Environment</i> , 2015, 505, 1320-1330.	8.0	18
40	Helium anomalies suggest a fluid pathway from mantle to trench during the 2011 Tohoku-Oki earthquake. <i>Nature Communications</i> , 2014, 5, 3084.	12.8	58
41	Titanium- and water-rich metamorphic olivine in high-pressure serpentinites from the Voltri Massif (Ligurian Alps, Italy): evidence for deep subduction of high-field strength and fluid-mobile elements. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	34
42	Zoned Cr-spinel and ferritchromite alteration in forearc mantle serpentinites of the Rio San Juan Complex, Dominican Republic. <i>Mineralogical Magazine</i> , 2013, 77, 117-136.	1.4	52
43	Geochemistry of subduction zone serpentinites: A review. <i>Lithos</i> , 2013, 178, 96-127.	1.4	514
44	Arsenic in a fractured slate aquifer system, New England, USA: Influence of bedrock geochemistry, groundwater flow paths, redox and ion exchange. <i>Applied Geochemistry</i> , 2013, 39, 181-192.	3.0	24
45	Origins of ultramafic rocks in the Sulu Ultrahigh-pressure Terrane, Eastern China. <i>Lithos</i> , 2013, 178, 158-170.	1.4	31
46	Oxidation state of lithospheric mantle along the northeastern margin of the North China Craton: implications for geodynamic processes. <i>International Geology Review</i> , 2013, 55, 1418-1444.	2.1	13
47	Origin of ultramafic xenoliths in high-Mg diorites from east-central China based on their oxidation state and abundance of platinum group elements. <i>International Geology Review</i> , 2012, 54, 1203-1218.	2.1	16
48	Behavior of fluid-mobile elements in serpentines from abyssal to subduction environments: Examples from Cuba and Dominican Republic. <i>Chemical Geology</i> , 2012, 312-313, 93-117.	3.3	94
49	A geochemical study on mud volcanoes in the Junggar Basin, China. <i>Applied Geochemistry</i> , 2011, 26, 1065-1076.	3.0	40
50	Metal binding to dissolved organic matter and adsorption to ferrihydrite in shallow peat groundwaters: Application to diamond exploration in the James Bay Lowlands, Canada. <i>Applied Geochemistry</i> , 2011, 26, 1649-1664.	3.0	12
51	Long-lasting intracontinental strike-slip faulting: new evidence from the Karakorum shear zone in the Himalayas. <i>Terra Nova</i> , 2011, 23, 92-99.	2.1	17
52	Serpentinites act as sponges for fluid-mobile elements in abyssal and subduction zone environments. <i>Terra Nova</i> , 2011, 23, 171-178.	2.1	125
53	Corundum-bearing garnet peridotite from northern Dominican Republic: A metamorphic product of an arc cumulate in the Caribbean subduction zone. <i>Lithos</i> , 2010, 114, 437-450.	1.4	42
54	Subduction of mantle wedge peridotites: Evidence from the Higashiakaishi ultramafic body in the Sanbagawa metamorphic belt. <i>Island Arc</i> , 2010, 19, 192-207.	1.1	55

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55	Mineralogy and origin of oxygen-bearing platinum-iron grains based on an X-ray absorption spectroscopy study. <i>American Mineralogist</i> , 2010, 95, 622-630.	1.9	18
56	In situ characterization of serpentinites from forearc mantle wedges: Timing of serpentinitization and behavior of fluid-mobile elements in subduction zones. <i>Chemical Geology</i> , 2010, 269, 262-277.	3.3	152
57	Exhumation Processes in Oceanic and Continental Subduction Contexts: A Review. <i>Frontiers in Earth Sciences</i> , 2009, , 175-205.	0.1	170
58	Metasomatic origin of garnet orthopyroxenites in the subcontinental lithospheric mantle underlying Pali Aike volcanic field, southern South America. <i>Mineralogy and Petrology</i> , 2008, 94, 243-258.	1.1	20
59	Oxidation state of Paleozoic subcontinental lithospheric mantle below the Pali Aike volcanic field in southernmost Patagonia. <i>Lithos</i> , 2008, 105, 98-110.	1.4	34
60	Geochemistry of peat over kimberlites in the Attawapiskat area, James Bay Lowlands, northern Canada. <i>Applied Geochemistry</i> , 2008, 23, 3767-3782.	3.0	10
61	Tethyan and Indian subduction viewed from the Himalayan high- to ultrahigh-pressure metamorphic rocks. <i>Tectonophysics</i> , 2008, 451, 225-241.	2.2	238
62	Geochemistry of apatite-rich layers in the Finero phlogopiteâ€“peridotite massif (Italian Western Alps) and ion microprobe dating of apatite. <i>Chemical Geology</i> , 2008, 251, 99-111.	3.3	41
63	An atomic level study of rhenium and radiogenic osmium in molybdenite. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5180-5190.	3.9	38
64	Initial geometry of western Himalaya and ultrahigh-pressure metamorphic evolution. <i>Journal of Asian Earth Sciences</i> , 2007, 30, 557-564.	2.3	39
65	Geochemical character of serpentinites associated with highâ€“to ultrahighâ€“pressure metamorphic rocks in the Alps, Cuba, and the Himalayas: Recycling of elements in subduction zones. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	179
66	Asthenospheric upwelling, oceanic slab retreat, and exhumation of UHP mantle rocks: Insights from Greater Antilles. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	87
67	Metasomatism of sub-arc mantle peridotites below southernmost South America: reduction of fO <sub>2</sub> by slab-melt. <i>Contributions To Mineralogy and Petrology</i> , 2007, 153, 607-624.	3.1	56
68	The Quetico Intrusions of Western Superior Province: Neo-Archean examples of Alaskan/Ural-type maficâ€“ultramafic intrusions. <i>Precambrian Research</i> , 2006, 149, 21-42.	2.7	101
69	Geology, Petrology, and Controls on PGE Mineralization of the Southern Roby and Twilight Zones, Lac des Iles Mine, Canada. <i>Economic Geology</i> , 2005, 100, 43-61.	3.8	35
70	Magmatic mineralization and hydrothermal enrichment of the High Grade Zone at the Lac des Iles palladium mine, northern Ontario, Canada. <i>Mineralium Deposita</i> , 2005, 40, 13-23.	4.1	38
71	Occurrence of arsenic (V) in forearc mantle serpentinites based on X-ray absorption spectroscopy study. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5585-5596.	3.9	97
72	Adsorption of rare earth elements onto bacterial cell walls and its implication for REE sorption onto natural microbial mats. <i>Chemical Geology</i> , 2005, 219, 53-67.	3.3	211

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73	The Gandy and Abolhassani Epithermal Prospects in the Alborz Magmatic Arc, Semnan Province, Northern Iran. <i>Economic Geology</i> , 2004, 99, 691-712.	3.8	56
74	Oxidized sulfur-rich mafic magma at Mount Pinatubo, Philippines. <i>Contributions To Mineralogy and Petrology</i> , 2004, 146, 750-761.	3.1	99
75	Source and tectono-metamorphic evolution of mafic and pelitic metasedimentary rocks from the central Quetico metasedimentary belt, Archean Superior Province of Canada. <i>Precambrian Research</i> , 2004, 132, 155-177.	2.7	22
76	Origin of placer laurite from Borneo: Se and As contents, and S isotopic compositions. <i>Mineralogical Magazine</i> , 2004, 68, 353-368.	1.4	35
77	Volcanic fronts form as a consequence of serpentinite dehydration in the forearc mantle wedge. <i>Geology</i> , 2003, 31, 525.	4.4	212
78	Contributions from mafic alkaline magmas to the Bingham porphyry Cu-Au-Mo deposit, Utah, USA. <i>Mineralium Deposita</i> , 2002, 37, 14-37.	4.1	107
79	Evidence of hydration of the mantle wedge and its role in the exhumation of eclogites. <i>Earth and Planetary Science Letters</i> , 2001, 193, 115-127.	4.4	190
80	Contribution of mafic melt to porphyry copper mineralization: evidence from Mount Pinatubo, Philippines, and Bingham Canyon, Utah, USA. <i>Mineralium Deposita</i> , 2001, 36, 799-806.	4.1	272
81	Seafloor hydrothermal clay alteration at Jade in the back-arc Okinawa Trough: mineralogy, geochemistry and isotope characteristics. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2785-2804.	3.9	80
82	Negative ionization processes of osmium for isotopic measurements. <i>International Journal of Mass Spectrometry</i> , 1998, 176, 189-201.	1.5	6
83	Metamorphosed Archean epithermal Au-As-Sb-Zn-(Hg) vein mineralization at the Campbell Mine, northwestern Ontario; discussion. <i>Economic Geology</i> , 1998, 93, 683-685.	3.8	4
84	Melt and source mantle compositions in the Late Archaean: A study of strontium and neodymium isotope and trace elements in clinopyroxenes from shoshonitic alkaline rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4551-4562.	3.9	24
85	Magma evolution recorded in plagioclase zoning in 1991 Pinatubo eruption products. <i>American Mineralogist</i> , 1996, 81, 982-994.	1.9	85
86	Late Archaean geological development recorded in the Timiskaming Group sedimentary rocks, Kirkland Lake area, Abitibi greenstone belt, Canada. <i>Precambrian Research</i> , 1994, 68, 23-42.	2.7	8
87	Provenance of igneous clasts in conglomerates of the Archaean Timiskaming Group, Kirkland Lake area, Abitibi greenstone belt, Canada. <i>Canadian Journal of Earth Sciences</i> , 1994, 31, 1749-1762.	1.3	8
88	Diverse metal sources of Archaean gold deposits: evidence from in situ lead-isotope analysis of individual grains of galena and altaite in the Ross and Kirkland Lake deposits, Abitibi Greenstone belt, Canada. <i>Contributions To Mineralogy and Petrology</i> , 1993, 113, 185-195.	3.1	8
89	High-sulfur magma, a product of fluid discharge from underlying mafic magma: Evidence from Mount Pinatubo, Philippines. <i>Geology</i> , 1993, 21, 1083.	4.4	121
90	Crustal-scale auriferous shear zones in the central Superior province, Canada. <i>Geology</i> , 1993, 21, 399.	4.4	20

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91	Os-isotope study of platinum-group minerals in chromitites in Alpine-type ultramafic intrusions and the associated placers in Borneo. <i>Mineralogical Magazine</i> , 1992, 56, 157-164.	1.4	14
92	Osmium-isotope ratios of platinum-group minerals associated with ultramafic intrusions: Os-isotopic evolution of the oceanic mantle. <i>Earth and Planetary Science Letters</i> , 1991, 107, 499-514.	4.4	66
93	Osmium isotope ratios of PGM grains associated with the Freetown Layered Complex, Sierra Leone, and their origin. <i>Contributions To Mineralogy and Petrology</i> , 1991, 109, 10-18.	3.1	35
94	Archean gold mineralization and oxidized hydrothermal fluids. <i>Economic Geology</i> , 1987, 82, 1177-1191.	3.8	154
95	Pyrite of distinctive isotopic composition from the Hemlo deposit: A potential tool to identify this type of gold mineralization in Archean terrain. <i>Journal of Geochemical Exploration</i> , 1987, 28, 85-102.	3.2	8
96	Archean sulphur cycle: Evidence from sulphate minerals and isotopically fractionated sulphides in superior province, Canada. <i>Chemical Geology: Isotope Geoscience Section</i> , 1987, 65, 341-358.	0.6	11
97	Archaean magmatic sulphate. <i>Nature</i> , 1986, 319, 45-47.	27.8	52
98	The Hemlo gold deposit, Ontario: A geochemical and isotopic study. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 2041-2050.	3.9	42
99	Sulphur isotope abundances in Archean clastic rocks: implications for the coeval atmosphere. <i>Nature</i> , 1983, 302, 323-326.	27.8	25
100	Calculation of oxygen isotope fractionation between uranium dioxide, uranium trioxide and water. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 1863-1868.	3.9	39
101	Oxygen isotope ratios of the Icelandic crust. <i>Journal of Geophysical Research</i> , 1982, 87, 6559-6565.	3.3	120
102	Meteoric hydrothermal origin of calcites in ?Green Tuff? formations, Miocene age, Japan. <i>Contributions To Mineralogy and Petrology</i> , 1980, 73, 145-150.	3.1	6
103	Marine hydrothermal alteration at a Kuroko ore deposit, Kosaka, Japan. <i>Contributions To Mineralogy and Petrology</i> , 1980, 74, 285-292.	3.1	25
104	D/H ratios, origins, and evolution of the ore-forming fluids for the Neogene veins and kuroko deposits of Japan. <i>Economic Geology</i> , 1979, 74, 535-555.	3.8	44
105	Geochemistry of ore deposition at the Yatani lead-zinc and gold-silver deposit, Japan. <i>Economic Geology</i> , 1975, 70, 677-693.	3.8	16