

# Katsura Kobayashi

## List of Publications by Year in descending order

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59  
papers

2,102  
citations

172457

29  
h-index

233421

45  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2069  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary analysis of the Hayabusa2 samples returned from C-type asteroid Ryugu. <i>Nature Astronomy</i> , 2022, 6, 214-220.	10.1	136
2	On the origin and evolution of the asteroid Ryugu: A comprehensive geochemical perspective. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2022, 98, 227-282.	3.8	77
3	Mineralogical alterations in calcite powder flooded with MgCl <sub>2</sub> to study Enhanced Oil Recovery (EOR) mechanisms at pore scale. <i>Microporous and Mesoporous Materials</i> , 2020, 304, 109402.	4.4	3
4	Various Ages of Recycled Material in the Source of Cenozoic Basalts in SE China: Implications for the Role of the Hainan Plume. <i>Journal of Petrology</i> , 2020, 61, .	2.8	8
5	The Albedo of Ryugu: Evidence for a High Organic Abundance, as Inferred from the Hayabusa2 Touchdown Maneuver. <i>Astrobiology</i> , 2020, 20, 916-921.	3.0	14
6	Origin of ocean island basalts in the West African passive margin without mantle plume involvement. <i>Nature Communications</i> , 2019, 10, 3022.	12.8	11
7	Hypervelocity collision and water-rock interaction in space preserved in the Chelyabinsk ordinary chondrite. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2019, 95, 165-177.	3.8	7
8	Mantle-derived trace element variability in olivines and their melt inclusions. <i>Earth and Planetary Science Letters</i> , 2018, 483, 90-104.	4.4	35
9	Nitrogen Concentrations and Isotopic Compositions of Seafloor-Altered Terrestrial Basaltic Glass: Implications for Astrobiology. <i>Astrobiology</i> , 2018, 18, 330-342.	3.0	15
10	Production of High- <sup>87</sup> Sr Andesite and Dacite Magmas by Melting of Subducting Oceanic Lithosphere at Propagating Slab Tears. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3698-3728.	3.4	16
11	Post-collisional magmatism of western Chukotka and Early Cretaceous tectonic rearrangement in northeastern Asia. <i>Geotectonics</i> , 2017, 51, 131-151.	0.9	26
12	In-situ U-Pb zircon age dating deciphering the formation event of the omphacite growth over relict edenitic pargasite in omphacite-bearing jadeitite of the Itoigawa-Omi area of the Hida-Gaien belt, central Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2017, 112, 256-270.	0.9	13
13	Trace element and isotopic geochemistry of Cretaceous magmatism in NE Asia: Spatial zonation, temporal evolution, and tectonic controls. <i>Lithos</i> , 2016, 264, 453-471.	1.4	18
14	Geochemical heterogeneities in magma beneath Mount Etna recorded by 2001-2006 melt inclusions. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2109-2126.	2.5	17
15	Chemical and stable isotopic characteristics of syn-tectonic tourmaline from the Western fold belt, Mount Isa inlier, Queensland, Australia. <i>Chemical Geology</i> , 2014, 381, 131-143.	3.3	8
16	Oxygen isotopes in Indian Plate eclogites (Kaghan Valley, Pakistan): Negative $\delta^{18}O$ values from a high latitude protolith reset by Himalayan metamorphism. <i>Lithos</i> , 2014, 208-209, 471-483.	1.4	12
17	Devolatilization history and trace element mobility in deeply subducted sedimentary rocks: Evidence from Western Alps HP/UHP suites. <i>Chemical Geology</i> , 2013, 342, 1-20.	3.3	95
18	Space environment of an asteroid preserved on micrograins returned by the Hayabusa spacecraft. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E624-9.	7.1	97

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19	Establishment of Comprehensive Analytical System for Terrestrial and Extraterrestrial Materials behind the Initial Analysis of Particles Returned by Hayabusa Spacecraft. <i>Hyomen Kagaku</i> , 2012, 33, 681-686.	0.0	0
20	Inherited Pb isotopic records in olivine antecryst-hosted melt inclusions from Hawaiian lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 95, 169-195.	3.9	34
21	Trace element and Pb-Ba-Li isotope systematics of olivine-hosted melt inclusions: insights into source metasomatism beneath Stromboli (southern Italy). <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 1011-1031.	3.1	27
22	Timescales of magma differentiation from basalt to andesite beneath Hekla Volcano, Iceland: Constraints from U-series disequilibria in lavas from the last quarter-millennium flows. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 256-283.	3.9	37
23	Geochemical evolution of historical lavas from Askja Volcano, Iceland: Implications for mechanisms and timescales of magmatic differentiation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 570-587.	3.9	28
24	Provenance and reconnaissance study of detrital zircons of the Palaeozoic Cape Supergroup in South Africa: revealing the interaction of the Kalahari and R�o de la Plata cratons. <i>International Journal of Earth Sciences</i> , 2011, 100, 527-541.	1.8	33
25	Degassing, crystallization and eruption dynamics at Stromboli: trace element and lithium isotopic evidence from 2003 ashes. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 541-561.	3.1	33
26	Recycled crustal melt injection into lithospheric mantle: implication from cumulative composite and pyroxenite xenoliths. <i>International Journal of Earth Sciences</i> , 2010, 99, 1167-1186.	1.8	22
27	Transitional time of oceanic to continental subduction in the Dabie orogen: Constraints from U-Pb, Lu-Hf, Sm-Nd and Ar-Ar multichronometric dating. <i>Lithos</i> , 2009, 110, 327-342.	1.4	82
28	Mineralogical and geochemical constraints on magmatic evolution of Paleocene adakitic andesites from the Yanji area, NE China. <i>Lithos</i> , 2009, 112, 321-341.	1.4	31
29	Eclogite-high-pressure granulite metamorphism records early collision in West Gondwana: new data from the Southern Bras�lia Belt, Brazil. <i>Journal of the Geological Society</i> , 2009, 166, 1013-1032.	2.1	59
30	Chemical and boron isotopic variations of tourmaline in the Hnilec granite-related hydrothermal system, Slovakia: Constraints on magmatic and metamorphic fluid evolution. <i>Lithos</i> , 2008, 106, 1-11.	1.4	78
31	Late Mesozoic silicic magmatism of the North Chukotka area (NE Russia): Age, magma sources, and geodynamic implications. <i>Lithos</i> , 2008, 105, 329-346.	1.4	44
32	Boron cycling by subducted lithosphere; insights from diamondiferous tourmaline from the Kokchetav ultrahigh-pressure metamorphic belt. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3531-3541.	3.9	40
33	Isotope Separation by Condensed Matter Centrifugation: Sedimentation of Isotope Atoms in Se. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 105-107.	1.3	1
34	Isotope Fluctuation in Indium-Lead Alloy Induced by Solid Centrifugation. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 108-110.	1.3	1
35	Gravity-induced diffusion of isotope atoms in monoatomic solid Se. <i>Europhysics Letters</i> , 2008, 81, 56002.	2.0	8
36	Trace element fractionation in deep subduction zones inferred from a lawsonite-eclogite xenolith from the Colorado Plateau. <i>Chemical Geology</i> , 2007, 239, 336-351.	3.3	34

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37	Lithium isotopic systematics of peridotite xenoliths from Hannuoba, North China Craton: Implications for melt-rock interaction in the considerably thinned lithospheric mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4327-4341.	3.9	122
38	Sedimentation of isotope atoms in monatomic liquid Se. <i>Applied Physics Letters</i> , 2007, 91, 231917.	3.3	17
39	Origin of atoll garnets in eclogites and implications for the redistribution of trace elements during slab exhumation in a continental subduction zone. <i>American Mineralogist</i> , 2007, 92, 1119-1129.	1.9	58
40	Transformation of Subcontinental Lithospheric Mantle through Peridotite-Melt Reaction: Evidence from a Highly Fertile Mantle Xenolith from the North China Craton. <i>International Geology Review</i> , 2007, 49, 658-679.	2.1	54
41	Tourmaline breakdown in a pelitic system: implications for boron cycling through subduction zones. <i>Contributions To Mineralogy and Petrology</i> , 2007, 155, 19-32.	3.1	36
42	Geochemical evolution of a shallow magma plumbing system during the last 500 years, Miyakejima volcano, Japan: Constraints from $^{238}\text{U}$ - $^{230}\text{Th}$ - $^{226}\text{Ra}$ systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2885-2901.	3.9	34
43	Ion microprobe zircon $\text{U}$ - $\text{Pb}$ dating of the late Archaean metavolcanics and associated granites of the Musoma-Mara Greenstone Belt, Northeast Tanzania: Implications for the geological evolution of the Tanzania Craton. <i>Journal of African Earth Sciences</i> , 2006, 45, 355-366.	2.0	55
44	In-situ $\text{U}$ - $\text{Pb}$ SIMS dating and trace element (EMPA) composition of zircon from a granodiorite porphyry in the Wushan copper deposit, China. <i>Mineralogy and Petrology</i> , 2006, 86, 29-44.	1.1	20
45	Carbon self-diffusion in a natural diamond. <i>Physical Review B</i> , 2005, 72, .	3.2	29
46	U-Pb Zircon Dating of Regional Deformation in the Lower Crust of the Kohistan Arc. <i>International Geology Review</i> , 2005, 47, 1035-1047.	2.1	25
47	Discovery of Archean continental and mantle fragments inferred from xenocrysts in komatiites, the Belingwe greenstone belt, Zimbabwe. <i>Geology</i> , 2004, 32, 285.	4.4	12
48	Ultra-high-pressure metabasaltic garnets as probes into deep subduction zone chemical cycling. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	2.5	46
49	Lithium, boron, and lead isotope systematics of glass inclusions in olivines from Hawaiian lavas: evidence for recycled components in the Hawaiian plume. <i>Chemical Geology</i> , 2004, 212, 143-161.	3.3	89
50	Fate of the subducted Farallon plate inferred from eclogite xenoliths in the Colorado Plateau. <i>Geology</i> , 2003, 31, 589.	4.4	114
51	Mantle metasomatism and rapid ascent of slab components beneath island arcs: Evidence from $^{238}\text{U}$ - $^{230}\text{Th}$ - $^{226}\text{Ra}$ disequilibria of Miyakejima volcano, Izu arc, Japan. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
52	Shift and Rotation of Composition Trends by Magma Mixing: 1983 Eruption at Miyake-jima Volcano, Japan. <i>Journal of Petrology</i> , 2003, 44, 1895-1916.	2.8	33
53	U-Pb isotope systematics of micro-zircon inclusions. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2002, 78, 51-56.	3.8	16
54	Timing and trigger of arc volcanism controlled by fluid flushing from subducting slab. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2002, 78, 190-195.	3.8	2

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55	Determination of Chromium, Nickel, Copper and Zinc in Milligram Samples of Geological Materials Using Isotope Dilution High Resolution Inductively Coupled Plasma-Mass Spectrometry. <i>Geostandards and Geoanalytical Research</i> , 2002, 26, 41-51.	3.1	40
56	Geochemical Evolution of Akagi Volcano, NE Japan: Implications for Interaction Between Island-arc Magma and Lower Crust, and Generation of Isotopically Various Magmas. <i>Journal of Petrology</i> , 2001, 42, 2303-2331.	2.8	38
57	Sr, Nd and Pb Isotope Systematics of Akagi Volcano, Northeast Japan. Implications for Interaction between Island Arc Magma and Lower Crust.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1997, 73, 69-73.	3.8	0
58	Isotope Fractionation due to Sedimentation of Atoms in Centrifuged Indium-Lead Alloy. <i>Defect and Diffusion Forum</i> , 0, 289-292, 63-68.	0.4	1
59	Bilateral heterogeneity in an upwelling mantle via double subduction of oceanic lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , .	3.4	1