

Tatsuhiko Kawamoto

List of Publications by Year in descending order

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53
papers

2,663
citations

186265

28
h-index

197818

49
g-index

54
all docs

54
docs citations

54
times ranked

2159
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrous partial melting of lherzolite at 1 GPa: The effect of H ₂ O on the genesis of basaltic magmas. <i>Earth and Planetary Science Letters</i> , 1995, 133, 463-473.	4.4	427
2	Melting Temperature and Partial Melt Chemistry of H ₂ O-Saturated Mantle Peridotite to 11 GPa. <i>Science</i> , 1997, 276, 240-243.	12.6	211
3	Experimental evidence for a hydrous transition zone in the early Earth's mantle. <i>Earth and Planetary Science Letters</i> , 1996, 142, 587-592.	4.4	161
4	Slab melting versus slab dehydration in subduction-zone magmatism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 8177-8182.	7.1	152
5	Changes in the structure of water deduced from the pressure dependence of the Raman OH frequency. <i>Journal of Chemical Physics</i> , 2004, 120, 5867-5870.	3.0	132
6	Mantle wedge infiltrated with saline fluids from dehydration and decarbonation of subducting slab. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9663-9668.	7.1	120
7	Second critical endpoint in the peridotite-H ₂ O system. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	96
8	Separation of supercritical slab-fluids to form aqueous fluid and melt components in subduction zone magmatism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18695-18700.	7.1	88
9	Oxidation state of iron in hydrous mantle phases: implications for subduction and mantle oxygen fugacity. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 157-169.	1.9	85
10	Crystal structure of monoclinic hydrous wadsleyite [β-(Mg,Fe) ₂ SiO ₄]. <i>American Mineralogist</i> , 1997, 82, 270-275.	1.9	82
11	Hydrous phase stability and partial melt chemistry in H ₂ O-saturated KLB-1 peridotite up to the uppermost lower mantle conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 387-395.	1.9	76
12	Experimental constraints on differentiation and H ₂ O abundance of calc-alkaline magmas. <i>Earth and Planetary Science Letters</i> , 1996, 144, 577-589.	4.4	73
13	Hydrous Phases and Water Transport in the Subducting Slab. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 62, 273-289.	4.8	62
14	Dusty and honeycomb plagioclase: indicators of processes in the Uchino stratified magma chamber, Izu Peninsula, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 49, 191-208.	2.1	60
15	Wadsleyite II: A new high pressure hydrous phase in the peridotite-H ₂ O system. <i>Earth and Planetary Science Letters</i> , 1997, 146, E9-E16.	4.4	60
16	Au-Pd sample containers for melting experiments on iron and water bearing systems. <i>European Journal of Mineralogy</i> , 1994, 6, 381-386.	1.3	57
17	Simulating bubble number density of rhyolitic pumices from Plinian eruptions: constraints from fast decompression experiments. <i>Bulletin of Volcanology</i> , 2010, 72, 735-746.	3.0	53
18	Mg/Si ratios of aqueous fluids coexisting with forsterite and enstatite based on the phase relations in the Mg ₂ SiO ₄ -SiO ₂ -H ₂ O system. <i>American Mineralogist</i> , 2004, 89, 1433-1437.	1.9	49

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19	Determination of the second critical end point in silicate-H ₂ O systems using high-pressure and high-temperature X-ray radiography. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5189-5195.	3.9	41
20	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. <i>Chemical Geology</i> , 2021, 570, 120145.	3.3	40
21	High-pressure phase transition and behavior of protons in brucite Mg(OH) ₂ : a high-pressure-temperature study using IR synchrotron radiation. <i>Physics and Chemistry of Minerals</i> , 2002, 29, 396-402.	0.8	37
22	Evolution of carbon dioxide-bearing saline fluids in the mantle wedge beneath the Northeast Japan arc. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	37
23	Pressure response of Raman spectra of water and its implication to the change in hydrogen bond interaction. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 61, 2423-2427.	3.9	36
24	Polybaric degassing of island arc low-K tholeiitic basalt magma recorded by OH concentrations in Ca-rich plagioclase. <i>Earth and Planetary Science Letters</i> , 2011, 308, 259-266.	4.4	36
25	The role of Al-defects on the equation of state of Al ²⁺ (Mg,Fe)SiO ₃ perovskite. <i>Earth and Planetary Science Letters</i> , 2007, 263, 167-179.	4.4	35
26	The compressibility of a natural apatite. <i>Physics and Chemistry of Minerals</i> , 2004, 31, 580-584.	0.8	32
27	Raman spectroscopy of cubic boron nitride under high temperature and pressure conditions: A new optical pressure marker. <i>Review of Scientific Instruments</i> , 2004, 75, 2451-2454.	1.3	29
28	Large-ion lithophile elements delivered by saline fluids to the sub-arc mantle. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	29
29	Slab-derived halogens and noble gases illuminate closed system processes controlling volatile element transport into the mantle wedge. <i>Earth and Planetary Science Letters</i> , 2017, 457, 106-116.	4.4	28
30	Infrared spectromicroscopy and magneto-optical imaging stations at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 893-896.	1.6	27
31	Crystal chemistry of wadsleyite II and water in the Earth's interior. <i>Physics and Chemistry of Minerals</i> , 2005, 31, 691-705.	0.8	27
32	Oxygen K-edge fine structures of water by x-ray Raman scattering spectroscopy under pressure conditions. <i>Journal of Chemical Physics</i> , 2007, 127, 134502.	3.0	27
33	Fluid inclusions in jadeitite and jadeite-rich rock from serpentinite mÃ©langes in northern Hispaniola: Trapped ambient fluids in a cold subduction channel. <i>Lithos</i> , 2018, 308-309, 227-241.	1.4	20
34	Melt inclusion analysis of the Unzen 1991-1995 dacite: implications for crystallization processes of dacite magma. <i>Bulletin of Volcanology</i> , 2005, 67, 648-662.	3.0	19
35	Aqueous fluids and sedimentary melts as agents for mantle wedge metasomatism, as inferred from peridotite xenoliths at Pinatubo and Iraya volcanoes, Luzon arc, Philippines. <i>Lithos</i> , 2016, 262, 355-368.	1.4	18
36	Experimental Study of the Stability of a Dolomite + Coesite Assemblage in Contact With Peridotite: Implications for Sediment-Mantle Interaction and Diamond Formation During Subduction. <i>Journal of Petrology</i> , 2012, 53, 391-417.	2.8	17

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37	Stability of hydrous minerals in H ₂ O-saturated KLB-1 peridotite up to 15 GPa. AIP Conference Proceedings, 1995, , .	0.4	13
38	Melting behavior of SiO ₂ up to 120 GPa. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	12
39	12. Hydrous Phases and Water Transport in the Subducting Slab. , 2006, , 273-290.		11
40	Geochemical and Sr ⁸⁷ /Nd isotopic characteristics and pressure-temperature estimates of mantle xenoliths from the French Massif Central: evidence for melting and multiple metasomatism by silicate-rich carbonatite and asthenospheric melts. Geological Society Special Publication, 2010, 337, 153-175.	1.3	10
41	Critical Phenomena between Magmas and Aqueous Fluids. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2004, 14, 235-241.	0.0	8
42	Special issue "Geofluid processes in subduction zones and mantle dynamics". Earth, Planets and Space, 2015, 67, .	2.5	8
43	Chemical composition of fluid inclusions in the Yorii jadeite-quartz rocks from the Kanto Mountains, Japan. Journal of Mineralogical and Petrological Sciences, 2017, 112, 281-290.	0.9	6
44	Mid infrared throughput with 5.µm aperture for H ₂ O determination of an andesitic glass: Comparison of synchrotron radiation source at SPring-8 with conventional light sources.. Geochemical Journal, 2003, 37, 253-259.	1.0	4
45	Comment on: Melting behavior of SiO ₂ up to 120 GPa (Andraut et al. 2020). Physics and Chemistry of Minerals, 2022, 49, 1.	0.8	4
46	Materials Science and Seismological Approaches to Understanding Seismogenic Processes Investigation of Critical Behavior in Basalt-H ₂ O System Using High-pressure and High-temperature X-ray Radiography. Journal of Geography (Chigaku Zasshi), 2003, 112, 970-978.	0.3	2
47	Chemical Composition of Mantle Wedge Fluids. Journal of Geography (Chigaku Zasshi), 2015, 124, 473-501.	0.3	2
48	Two groups of fluid inclusions in the Yunotani eclogite from the Hida-Gaien Belt: Implications for changes of fluid salinity during exhumation. Journal of Mineralogical and Petrological Sciences, 2019, 114, 302-307.	0.9	2
49	Structure and properties of silicate melts and fluids. Geochimica Et Cosmochimica Acta, 2004, 68, 5011.	3.9	1
50	Study notes on water and magmas in the depths of the Earth. Ganseki Kobutsu Kagaku, 2018, 47, 13-26.	0.1	1
51	(FeH) _{1-x} Ti _x O ₂ : A new water carrier to the mantle transition zone. American Mineralogist, 2016, 101, 1021-1022.	1.9	0
52	Special issue "Crustal dynamics: toward integrated view of island arc seismogenesis". Earth, Planets and Space, 2021, 73, .	2.5	0
53	Experimental Mineralogy and Petrology. Encyclopedia of Earth Sciences Series, 2018, , 471-476.	0.1	0