Tatsuhiko Kawamoto

List of Publications by Year
in descending order

53	2,663	186265	197818
papers	citations	28 h-index	49 g-index

54	54	54	2159
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comment on: Melting behavior of SiO2 up to 120ÂGPa (Andrault et al. 2020). Physics and Chemistry of Minerals, 2022, 49, 1.	0.8	4
2	Special issue "Crustal dynamics: toward integrated view of island arc seismogenesis". Earth, Planets and Space, 2021, 73, .	2.5	0
3	Silicate melt inclusions in the new millennium: A review of recommended practices for preparation, analysis, and data presentation. Chemical Geology, 2021, 570, 120145.	3.3	40
4	Melting behavior of SiO2 up to 120 GPa. Physics and Chemistry of Minerals, 2020, 47, 1.	0.8	12
5	Two groups of fluid inclusions in the Yunotani eclogite from the Hidaâ€“Gaien Belt: Implications for changes of fluid salinity during exhumation. Journal of Mineralogical and Petrological Sciences, 2019, 114, 302-307.	0.9	2
6	Fluid inclusions in jadeitite and jadeite-rich rock from serpentinite mÃ©langes in northern Hispaniola: Trapped ambient fluids in a cold subduction channel. Lithos, 2018, 308-309, 227-241.	1.4	20
7	Experimental Mineralogy and Petrology. Encyclopedia of Earth Sciences Series, 2018, , 471-476.	0.1	0
8	Study notes on water and magmas in the depths of the Earth. Ganseki Kobutsu Kagaku, 2018, 47, 13-26.	0.1	1
9	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
10	Chemical composition of fluid inclusions in the Yorii jadeiteâ€“quartz rocks from the Kanto Mountains, Japan. Journal of Mineralogical and Petrological Sciences, 2017, 112, 281-290.	0.9	6
11	(FeH)1â^'xTixO2: A new water carrier to the mantle transition zone. American Mineralogist, 2016, 101, 1021-1022.	1.9	0
12	Aqueous fluids and sedimentary melts as agents for mantle wedge metasomatism, as inferred from peridotite xenoliths at Pinatubo and Iraya volcanoes, Luzon arc, Philippines. Lithos, 2016, 262, 355-368.	1.4	18
13	Chemical Composition of Mantle Wedge Fluids. Journal of Geography (Chigaku Zasshi), 2015, 124, 473-501.	0.3	2
14	Special issue â€˜Geofluid processes in subduction zones and mantle dynamicsâ€™. Earth, Planets and Space, 2015, 67, .	2.5	8
15	Evolution of carbon dioxide-bearing saline fluids in the mantle wedge beneath the Northeast Japan arc. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	37
16	Large-ion lithophile elements delivered by saline fluids to the sub-arc mantle. Earth, Planets and Space, 2014, 66, .	2.5	29
17	Mantle wedge infiltrated with saline fluids from dehydration and decarbonation of subducting slab. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9663-9668.	7.1	120
18	Experimental Study of the Stability of a Dolomite + Coesite Assemblage in Contact With Peridotite: Implications for Sediment-Mantle Interaction and Diamond Formation During Subduction. Journal of Petrology, 2012, 53, 391-417.	2.8	17

#	Article	IF	Citations
19	Separation of supercritical slab-fluids to form aqueous fluid and melt components in subduction zone magmatism. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18695-18700.	7.1	88
20	Polybaric degassing of island arc low-K tholeiitic basalt magma recorded by OH concentrations in Ca-rich plagioclase. Earth and Planetary Science Letters, 2011, 308, 259-266.	4.4	36
21	Slab melting versus slab dehydration in subduction-zone magmatism. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8177-8182.	7.1	152
22	Simulating bubble number density of rhyolitic pumices from Plinian eruptions: constraints from fast decompression experiments. Bulletin of Volcanology, 2010, 72, 735-746.	3.0	53
23	Geochemical and Srâ€“Nd isotopic characteristics and pressureâ€“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
24	The role of Al-defects on the equation of state of Alâ€“(Mg,Fe)SiO3 perovskite. Earth and Planetary Science Letters, 2007, 263, 167-179.	4.4	35
25	Second critical endpoint in the peridotite-H2O system. Journal of Geophysical Research, 2007, 112, .	3.3	96
26	Oxygen K-edge fine structures of water by x-ray Raman scattering spectroscopy under pressure conditions. Journal of Chemical Physics, 2007, 127, 134502.	3.0	27
27	12. Hydrous Phases and Water Transport in the Subducting Slab. , 2006, , 273-290.		11
28	Hydrous Phases and Water Transport in the Subducting Slab. Reviews in Mineralogy and Geochemistry, 2006, 62, 273-289.	4.8	62
29	Pressure response of Raman spectra of water and its implication to the change in hydrogen bond interaction. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2423-2427.	3.9	36
30	Crystal chemistry of wadsleyite II and water in the Earthâ€™s interior. Physics and Chemistry of Minerals, 2005, 31, 691-705.	0.8	27
31	Melt inclusion analysis of the Unzen 1991â€“1995 dacite: implications for crystallization processes of dacite magma. Bulletin of Volcanology, 2005, 67, 648-662.	3.0	19
32	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
33	Mg/Si ratios of aqueous fluids coexisting with forsterite and enstatite based on the phase relations in the Mg₂SiO₄-SiO₂-H₂O system. American Mineralogist, 2004, 89, 1433-1437.	1.9	49
34	The compressibility of a natural apatite. Physics and Chemistry of Minerals, 2004, 31, 580-584.	0.8	32
35	Raman spectroscopy of cubic boron nitride under high temperature and pressure conditions: A new optical pressure marker. Review of Scientific Instruments, 2004, 75, 2451-2454.	1.3	29
36	Changes in the structure of water deduced from the pressure dependence of the Raman OH frequency. Journal of Chemical Physics, 2004, 120, 5867-5870.	3.0	132

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37	Determination of the second critical end point in silicate-H2O systems using high-pressure and high-temperature X-ray radiography. Geochimica Et Cosmochimica Acta, 2004, 68, 5189-5195.	3.9	41
38	Structure and properties of silicate melts and fluids. Geochimica Et Cosmochimica Acta, 2004, 68, 5011.	3.9	1
39	Hydrous phase stability and partial melt chemistry in H2O-saturated KLB-1 peridotite up to the uppermost lower mantle conditions. Physics of the Earth and Planetary Interiors, 2004, 143-144, 387-395.	1.9	76
40	Oxidation state of iron in hydrous mantle phases: implications for subduction and mantle oxygen fugacity. Physics of the Earth and Planetary Interiors, 2004, 143-144, 157-169.	1.9	85
41	Materials Science and Seismological Approaches to Understanding Seismogenic Processes Investigation of Critical Behavior in Basalt-H2O System Using High-pressure and High-temperature X-ray Radiography. Journal of Geography (Chigaku Zasshi), 2003, 112, 970-978.	0.3	2
42	Mid infrared throughput with 5.MU.m aperture for H2O 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
43	High-pressure phase transition and behavior of protons in brucite Mg(OH) 2 : a high-pressure-temperature study using IR synchrotron radiation. Physics and Chemistry of Minerals, 2002, 29, 396-402.	0.8	37
44	Infrared spectromicroscopy and magneto-optical imaging stations at SPring-8. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 893-896.	1.6	27
45	Crystal structure of monoclinic hydrous wadsleyite [beta -(Mg,Fe)₂SiO₄]. American Mineralogist, 1997, 82, 270-275.	1.9	82
46	Melting Temperature and Partial Melt Chemistry of H2O-Saturated Mantle Peridotite to 11 Gigapascals. Science, 1997, 276, 240-243.	12.6	211
47	Wadsleyite II: A new high pressure hydrous phase in the peridotite-H2O system. Earth and Planetary Science Letters, 1997, 146, E9-E16.	4.4	60
48	Experimental evidence for a hydrous transition zone in the early Earth's mantle. Earth and Planetary Science Letters, 1996, 142, 587-592.	4.4	161
49	Experimental constraints on differentiation and H2O abundance of calc-alkaline magmas. Earth and Planetary Science Letters, 1996, 144, 577-589.	4.4	73
50	Stability of hydrous minerals in H2O-saturated KLB-1 peridotite up to 15 GPA. AIP Conference Proceedings, 1995, , .	0.4	13
51	Hydrous partial melting of lherzolite at 1 GPa: The effect of H2O on the genesis of basaltic magmas. Earth and Planetary Science Letters, 1995, 133, 463-473.	4.4	427
52	Au-Pd sample containers for melting experiments on iron and water bearing systems. European Journal of Mineralogy, 1994, 6, 381-386.	1.3	57
53	Dusty and honeycomb plagioclase: indicators of processes in the Uchino stratified magma chamber, Izu Peninsula, Japan. Journal of Volcanology and Geothermal Research, 1992, 49, 191-208.	2.1	60