

Kenneth T Koga

List of Publications by Year in descending order

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52
papers

2,792
citations

172457

29
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

2745
citing authors

#	ARTICLE	IF	CITATIONS
1	Persistent gas emission originating from a deep basaltic magma reservoir of an active volcano: the case of Aso volcano, Japan. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	3.1	8
2	Halogen Bearing Amphiboles, Aqueous Fluids, and Melts in Subduction Zones: Insights on Halogen Cycle From Electrical Conductivity. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021339.	3.4	7
3	How to turn off a lava lake? A petrological investigation of the 2018 intra-caldera and submarine eruptions of Ambrym volcano. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	13
4	Prolonged Trachyte Storage and Unusual Remobilization at Piton de la Fournaise, La Réunion Island, Indian Ocean: Li, O, Sr, Nd, Pb and Th Isotope Study. <i>Journal of Petrology</i> , 2021, 62, .	2.8	1
5	Magma Decompression Rate Calculations With EMBER: A User-Friendly Software to Model Diffusion of H_2O , CO_2 , and S in Melt Embayments. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009542.	2.5	7
6	Tracking slab surface temperatures with electrical conductivity of glaucophane. <i>Scientific Reports</i> , 2021, 11, 18014.	3.3	4
7	In-situ measurements of magmatic volatile elements, F, S, and Cl, by electron microprobe, secondary ion mass spectrometry, and heavy ion elastic recoil detection analysis. <i>American Mineralogist</i> , 2020, 105, 616-626.	1.9	12
8	Fast ascent rate during the 2017–2018 Plinian eruption of Ambae (Aoba) volcano: a petrological investigation. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	38
9	Halogens in Terrestrial and Cosmic Geochemical Systems: Abundances, Geochemical Behaviors, and Analytical Methods. <i>Springer Geochemistry</i> , 2018, , 21-121.	0.1	21
10	Fluorine in the Earth and the solar system, where does it come from and can it be found?. <i>Comptes Rendus Chimie</i> , 2018, 21, 749-756.	0.5	30
11	Direct analyses of fluorine in aqueous fluids extracted from 1-GPa experiments. <i>Chemical Geology</i> , 2018, 502, 44-54.	3.3	5
12	Constraining magma sources using primitive olivine-hosted melt inclusions from Puñalica and Sangay volcanoes (Ecuador). <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	21
13	Sr and Nd isotopic compositions of individual olivine-hosted melt inclusions from Hawai'i and Samoa: Implications for the origin of isotopic heterogeneity in melt inclusions from OIB lavas. <i>Chemical Geology</i> , 2018, 495, 36-49.	3.3	15
14	DOUBLE FIT: Optimization procedure applied to lattice strain model. <i>Computers and Geosciences</i> , 2018, 117, 49-56.	4.2	17
15	Fluorine. <i>Encyclopedia of Earth Sciences Series</i> , 2018, , 495-498.	0.1	0
16	Geochemical systematics of Pb isotopes, fluorine, and sulfur in melt inclusions from São Miguel, Azores. <i>Chemical Geology</i> , 2017, 458, 22-37.	3.3	17
17	Translations of volcanological terms: cross-cultural standards for teaching, communication, and reporting. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	7
18	Chlorine and fluorine partition coefficients and abundances in sub-arc mantle xenoliths (Kamchatka). <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 324-350.	3.9	33

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19	Fluorine. Encyclopedia of Earth Sciences Series, 2016, , 1-4.	0.1	1
20	Volatile (Li, B, F and Cl) mobility during amphibole breakdown in subduction zones. Lithos, 2016, 244, 165-181.	1.4	30
21	Deeply dredged submarine HIMU glasses from the <sc>T</sc>uvalu <sc>I</sc>slands, <sc>P</sc>olynesia: Implications for volatile budgets of recycled oceanic crust. Geochemistry, Geophysics, Geosystems, 2015, 16, 3210-3234.	2.5	23
22	Ultra-depleted melts in olivine-hosted melt inclusions from the Ontong Java Plateau. Chemical Geology, 2015, 414, 124-137.	3.3	24
23	Experimentally determined distribution of fluorine and chlorine upon hydrous slab melting, and implications for F-Cl cycling through subduction zones. Geochimica Et Cosmochimica Acta, 2015, 171, 353-373.	3.9	53
24	FTIR and Raman spectroscopy characterization of fluorine-bearing titanian clinohumite in antigorite serpentinite and chlorite harzburgite. Earth, Planets and Space, 2014, 66, .	2.5	12
25	Volatile cycling of <sc>H₂O</sc>, <sc>CO₂</sc>, <sc>F</sc>, and <sc>Cl</sc> in the <sc>HIMU</sc> mantle: A new window provided by melt inclusions from oceanic hot spot lavas at <sc>M</sc>angaia, <sc>C</sc>ook <sc>I</sc>slands. Geochemistry, Geophysics, Geosystems, 2014, 15, 4445-4467.	2.5	67
26	Contrasting partition behavior of F and Cl during hydrous mantle melting: implications for Cl/F signature in arc magmas. Progress in Earth and Planetary Science, 2014, 1, .	3.0	44
27	Volatile (F and Cl) concentrations in Iwate olivine-hosted melt inclusions indicating low-temperature subduction. Earth, Planets and Space, 2014, 66, 81.	2.5	31
28	F, Cl and S input via serpentinite in subduction zones: implications for the nature of the fluid released at depth. Terra Nova, 2014, 26, 96-101.	2.1	67
29	Hydration of mantle olivine under variable water and oxygen fugacity conditions. Contributions To Mineralogy and Petrology, 2014, 167, 1.	3.1	46
30	The solubility of platinum in silicate melt under reducing conditions: Results from experiments without metal inclusions. Geochimica Et Cosmochimica Acta, 2014, 133, 422-442.	3.9	32
31	Anomalous sulphur isotopes in plume lavas reveal deep mantle storage of Archaean crust. Nature, 2013, 496, 490-493.	27.8	205
32	Fluorine partitioning between hydrous minerals and aqueous fluid at 1GPa and 770-947°C: A new constraint on slab flux. Geochimica Et Cosmochimica Acta, 2013, 119, 77-92.	3.9	32
33	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
34	Mantle source heterogeneity for South Tyrrhenian magmas revealed by Pb isotopes and halogen contents of olivine-hosted melt inclusions. Chemical Geology, 2012, 334, 266-279.	3.3	60
35	Experimental determination of F and Cl partitioning between lherzolite and basaltic melt. Contributions To Mineralogy and Petrology, 2012, 163, 591-609.	3.1	113
36	Kinetics and mechanism of antigorite dehydration: Implications for subduction zone seismicity. Journal of Geophysical Research, 2011, 116, .	3.3	35

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37	Ordering in double carbonates and implications for processes at subduction zones. <i>Contributions To Mineralogy and Petrology</i> , 2011, 161, 439-450.	3.1	30
38	Simple mixing as the major control of the evolution of volcanic suites in the Ecuadorian Andes. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 297-312.	3.1	328
39	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
40	Dehydration kinetics of talc and 10Å... phase: Consequences for subduction zone seismicity. <i>Earth and Planetary Science Letters</i> , 2009, 284, 57-64.	4.4	27
41	Survival of lithium isotopic heterogeneities in the mantle supported by HIMU-lavas from Rurutu Island, Austral Chain. <i>Earth and Planetary Science Letters</i> , 2009, 286, 456-466.	4.4	53
42	Trace element partitioning between carbonatitic melts and mantle transition zone minerals: Implications for the source of carbonatites. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 239-255.	3.9	54
43	Pressure and temperature dependence of H solubility in forsterite: An implication to water activity in the Earth interior. <i>Earth and Planetary Science Letters</i> , 2008, 268, 354-363.	4.4	86
44	Carbon self-diffusion in a natural diamond. <i>Physical Review B</i> , 2005, 72, .	3.2	29
45	Kinetics of antigorite dehydration: A real-time X-ray diffraction study. <i>Earth and Planetary Science Letters</i> , 2005, 236, 899-913.	4.4	112
46	Determination of trace element partition coefficients between water and minerals by high-pressure and high-temperature experiments: Leaching technique. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	6
47	Phase relations and equation-of-state of aluminous Mg-silicate perovskite and implications for Earth's lower mantle. <i>Earth and Planetary Science Letters</i> , 2004, 222, 501-516.	4.4	73
48	The effects of chromatic dispersion on temperature measurement in the laser-heated diamond anvil cell. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 143-144, 541-558.	1.9	48
49	Hydrogen concentration analyses using SIMS and FTIR: Comparison and calibration for nominally anhydrous minerals. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	212
50	Diffusive relaxation of carbon and nitrogen isotope heterogeneity in diamond: a new thermochronometer. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 139, 35-43.	1.9	44
51	Petrogenesis of the crust-mantle transition zone and the origin of lower crustal wehrlite in the Oman ophiolite. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	102
52	Geochemistry of gabbro sills in the crust-mantle transition zone of the Oman ophiolite: implications for the origin of the oceanic lower crust. <i>Earth and Planetary Science Letters</i> , 1997, 146, 475-488.	4.4	386