Kenneth T Koga

List of Publications by Year
in descending order

52	2,792	172457	182427
papers	citations	29 h-index	51 g-index

53	53	53	2745
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Geochemistry of gabbro sills in the crust-mantle transition zone of the Oman ophiolite: implications for the origin of the oceanic lower crust. Earth and Planetary Science Letters, 1997, 146, 475-488.	4.4	386
2	Simple mixing as the major control of the evolution of volcanic suites in the Ecuadorian Andes. Contributions To Mineralogy and Petrology, 2010, 160, 297-312.	3.1	328
3	Hydrogen concentration analyses using SIMS and FTIR: Comparison and calibration for nominally anhydrous minerals. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	212
4	Anomalous sulphur isotopes in plume lavas reveal deep mantle storage of Archaean crust. Nature, 2013, 496, 490-493.	27.8	205
5	Experimental determination of F and Cl partitioning between lherzolite and basaltic melt. Contributions To Mineralogy and Petrology, 2012, 163, 591-609.	3.1	113
6	Kinetics of antigorite dehydration: A real-time X-ray diffraction study. Earth and Planetary Science Letters, 2005, 236, 899-913.	4.4	112
7	Petrogenesis of the crust-mantle transition zone and the origin of lower crustal wehrlite in the Oman ophiolite. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	102
8	Pressure and temperature dependence of H solubility in forsterite: An implication to water activity in the Earth interior. Earth and Planetary Science Letters, 2008, 268, 354-363.	4.4	86
9	Phase relations and equation-of-state of aluminous Mg-silicate perovskite and implications for Earth's lower mantle. Earth and Planetary Science Letters, 2004, 222, 501-516.	4.4	73
10	Volatile cycling of <scp>H₂O</scp>, <scp>CO</scp>₂, <scp>F</scp>, and <scp>C</scp>l in the <scp>HIMU</scp> mantle: A new window provided by melt inclusions from oceanic hot spot lavas at <scp>M</scp>angaia, <scp>C</scp>ook <scp>I</scp>slands. Geochemistry, Geophysics, Geosystems, 2014, 15, 4445-4467.	2.5	67
11	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
12	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
13	Trace element partitioning between carbonatitic melts and mantle transition zone minerals: Implications for the source of carbonatites. Geochimica Et Cosmochimica Acta, 2009, 73, 239-255.	3.9	54
14	Survival of lithium isotopic heterogeneities in the mantle supported by HIMU-lavas from Rurutu Island, Austral Chain. Earth and Planetary Science Letters, 2009, 286, 456-466.	4.4	53
15	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
16	Experimentally determined distribution of fluorine and chlorine upon hydrous slab melting, and implications for Fâ€“Cl cycling through subduction zones. Geochimica Et Cosmochimica Acta, 2015, 171, 353-373.	3.9	53
17	The effects of chromatic dispersion on temperature measurement in the laser-heated diamond anvil cell. Physics of the Earth and Planetary Interiors, 2004, 143-144, 541-558.	1.9	48
18	Hydration of mantle olivine under variable water and oxygen fugacity conditions. Contributions To Mineralogy and Petrology, 2014, 167, 1.	3.1	46

#	Article	IF	Citations
19	Diffusive relaxation of carbon and nitrogen isotope heterogeneity in diamond: a new thermochronometer. Physics of the Earth and Planetary Interiors, 2003, 139, 35-43.	1.9	44
20	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
21	Fast ascent rate during the 2017â€“2018 Plinian eruption of Ambae (Aoba) volcano: a petrological investigation. Contributions To Mineralogy and Petrology, 2019, 174, 1.	3.1	38
22	Kinetics and mechanism of antigorite dehydration: Implications for subduction zone seismicity. Journal of Geophysical Research, 2011, 116, .	3.3	35
23	Chlorine and fluorine partition coefficients and abundances in sub-arc mantle xenoliths (Kamchatka,) Tj ETQq1 1 0.784314 rgBT /Over Geochimica Et Cosmochimica Acta, 2017, 199, 324-350.	3.9	33
24	Fluorine partitioning between hydrous minerals and aqueous fluid at 1GPa and 770â€“947Â°C: A new constraint on slab flux. Geochimica Et Cosmochimica Acta, 2013, 119, 77-92.	3.9	32
25	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
26	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
27	Ordering in double carbonates and implications for processes at subduction zones. Contributions To Mineralogy and Petrology, 2011, 161, 439-450.	3.1	30
28	Volatile (Li, B, F and Cl) mobility during amphibole breakdown in subduction zones. Lithos, 2016, 244, 165-181.	1.4	30
29	Fluorine in the Earth and the solar system, where does it come from and can it be found?. Comptes Rendus Chimie, 2018, 21, 749-756.	0.5	30
30	Carbon self-diffusion in a natural diamond. Physical Review B, 2005, 72, .	3.2	29
31	Dehydration kinetics of talc and 10ÅÃ... phase: Consequences for subduction zone seismicity. Earth and Planetary Science Letters, 2009, 284, 57-64.	4.4	27
32	Ultra-depleted melts in olivine-hosted melt inclusions from the Ontong Java Plateau. Chemical Geology, 2015, 414, 124-137.	3.3	24
33	Deeply dredged submarine HIMU glasses from the <scp>T</scp>uvalu <scp>I</scp>slands, <scp>P</scp>olynesia: Implications for volatile budgets of recycled oceanic crust. Geochemistry, Geophysics, Geosystems, 2015, 16, 3210-3234.	2.5	23
34	Halogens in Terrestrial and Cosmic Geochemical Systems: Abundances, Geochemical Behaviors, and Analytical Methods. Springer Geochemistry, 2018, , 21-121.	0.1	21
35	Constraining magma sources using primitive olivine-hosted melt inclusions from PuÃ±alica and Sangay volcanoes (Ecuador). Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	21
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. Journal of Petrology, 2012, 53, 391-417.	2.8	17

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37	Geochemical systematics of Pb isotopes, fluorine, and sulfur in melt inclusions from SÃ£o Miguel, Azores. Chemical Geology, 2017, 458, 22-37.	3.3	17
38	DOUBLE FIT: Optimization procedure applied to lattice strain model. Computers and Geosciences, 2018, 117, 49-56.	4.2	17
39	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. Chemical Geology, 2018, 495, 36-49.	3.3	15
40	How to turn off a lava lake? A petrological investigation of the 2018 intra-caldera and submarine eruptions of Ambrym volcano. Bulletin of Volcanology, 2021, 83, 1.	3.0	13
41	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
42	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. American Mineralogist, 2020, 105, 616-626.	1.9	12
43	Persistent gas emission originating from a deep basaltic magma reservoir of an active volcano: the case of Aso volcano, Japan. Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	8
44	Translations of volcanological terms: cross-cultural standards for teaching, communication, and reporting. Bulletin of Volcanology, 2017, 79, 1.	3.0	7
45	Halogen Bearing Amphiboles, Aqueous Fluids, and Melts in Subduction Zones: Insights on Halogen Cycle From Electrical Conductivity. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021339.	3.4	7
46	Magma Decompression Rate Calculations With EMBER: A Userâ€Friendly Software to Model Diffusion of H₂O, CO₂, and S in Melt Embayments. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009542.	2.5	7
47	Determination of trace element partition coefficients between water and minerals by high-pressure and high-temperature experiments: Leaching technique. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	6
48	Direct analyses of fluorine in aqueous fluids extracted from 1-GPa experiments. Chemical Geology, 2018, 502, 44-54.	3.3	5
49	Tracking slab surface temperatures with electrical conductivity of glaucophane. Scientific Reports, 2021, 11, 18014.	3.3	4
50	Fluorine. Encyclopedia of Earth Sciences Series, 2016, , 1-4.	0.1	1
51	Prolonged Trachyte Storage and Unusual Remobilization at Piton de la Fournaise, La RÃ©union Island, Indian Ocean: Li, O, Sr, Nd, Pb and Th Isotope Study. Journal of Petrology, 2021, 62, .	2.8	1
52	Fluorine. Encyclopedia of Earth Sciences Series, 2018, , 495-498.	0.1	0