

Tetsu Kogiso

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

3,359
citations

279798

23
h-index

289244

40
g-index

48
all docs

48
docs citations

48
times ranked

2357
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace element transport during dehydration processes in the subducted oceanic crust: 1. Experiments and implications for the origin of ocean island basalts. <i>Earth and Planetary Science Letters</i> , 1997, 148, 193-205.	4.4	509
2	Alkalic magmas generated by partial melting of garnet pyroxenite. <i>Geology</i> , 2003, 31, 481.	4.4	450
3	High-pressure partial melting of garnet pyroxenite: possible mafic lithologies in the source of ocean island basalts. <i>Earth and Planetary Science Letters</i> , 2003, 216, 603-617.	4.4	378
4	Melting experiments on homogeneous mixtures of peridotite and basalt: application to the genesis of ocean island basalts. <i>Earth and Planetary Science Letters</i> , 1998, 162, 45-61.	4.4	239
5	High-pressure Partial Melting of Mafic Lithologies in the Mantle. <i>Journal of Petrology</i> , 2004, 45, 2407-2422.	2.8	227
6	Partial melting experiments of bimineraleclogite and the role of recycled mafic oceanic crust in the genesis of ocean island basalts. <i>Earth and Planetary Science Letters</i> , 2006, 249, 188-199.	4.4	191
7	Trace element transport during dehydration processes in the subducted oceanic crust: 2. Origin of chemical and physical characteristics in arc magmatism. <i>Earth and Planetary Science Letters</i> , 1997, 148, 207-221.	4.4	167
8	The dynamics of big mantle wedge, magma factory, and metamorphicâ€“metasomatic factory in subduction zones. <i>Gondwana Research</i> , 2009, 16, 414-430.	6.0	142
9	Structure and growth of the Izuâ€“Boninâ€“Mariana arc crust: 2. Role of crustâ€“mantle transformation and the transparent Moho in arc crust evolution. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	136
10	Length scales of mantle heterogeneities and their relationship to ocean island basalt geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 345-360.	3.9	125
11	High $\hat{1}/4$ (HIMU) ocean island basalts in southern Polynesia: New evidence for whole mantle scale recycling of subducted oceanic crust. <i>Journal of Geophysical Research</i> , 1997, 102, 8085-8103.	3.3	114
12	Experimental study of clinopyroxenite partial melting and the origin of ultra-calcic melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2001, 142, 347-360.	3.1	113
13	The subduction factory: its role in the evolution of the Earthâ€™s crust and mantle. <i>Geological Society Special Publication</i> , 2003, 219, 55-80.	1.3	113
14	Lithium, strontium, and neodymium isotopic compositions of oceanic island basalts in the Polynesian region: constraints on a Polynesian HIMU origin. <i>Geochemical Journal</i> , 2005, 39, 91-103.	1.0	44
15	Magma genesis beneath Northeast Japan arc: A new perspective on subduction zone magmatism. <i>Gondwana Research</i> , 2009, 16, 446-457.	6.0	39
16	A third volcanic chain in Kamchatka: thermal anomaly at transform/convergence plate boundary. <i>Geophysical Research Letters</i> , 1994, 21, 537-540.	4.0	37
17	Formation of a third volcanic chain in Kamchatka: generation of unusual subduction-related magmas. <i>Contributions To Mineralogy and Petrology</i> , 1995, 120, 117-128.	3.1	37
18	Lead isotopic compositions in olivine-hosted melt inclusions from HIMU basalts and possible link to sulfide components. <i>Physics of the Earth and Planetary Interiors</i> , 2004, 146, 231-242.	1.9	34

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19	Petit-spot as definitive evidence for partial melting in the asthenosphere caused by CO ₂ . <i>Nature Communications</i> , 2017, 8, 14302.	12.8	33
20	Large-ion lithophile elements delivered by saline fluids to the sub-arc mantle. <i>Earth, Planets and Space</i> , 2014, 66, .	2.5	29
21	Detecting micrometer-scale platinum-group minerals in mantle peridotite with microbeam synchrotron radiation X-ray fluorescence analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	2.5	27
22	Geomagnetic paleosecular variation for the past 5 Ma in the Society Islands, French Polynesia. <i>Earth, Planets and Space</i> , 2002, 54, 797-802.	2.5	26
23	New K-Ar ages of the Society Islands, French Polynesia, and implications for the Society hotspot feature. <i>Earth, Planets and Space</i> , 2007, 59, 879-885.	2.5	24
24	Contrasting behavior of noble-metal elements during magmatic differentiation in basalts from the Cook Islands, Polynesia. <i>Geology</i> , 2000, 28, 131.	4.4	16
25	Role of silica for the progress of serpentinization reactions: Constraints from successive changes in mineralogical textures of serpentinites from Iwanaiake ultramafic body, Japan. <i>American Mineralogist</i> , 2014, 99, 1035-1044.	1.9	16
26	Electrical conductivity of the oceanic asthenosphere and its interpretation based on laboratory measurements. <i>Tectonophysics</i> , 2017, 717, 162-181.	2.2	16
27	Metasomatic PGE mobilization by carbonatitic melt in the mantle: Evidence from sub-1/4m-scale sulfide-carbonaceous glass inclusion in Tahitian harzburgite xenolith. <i>Chemical Geology</i> , 2017, 475, 87-104.	3.3	14
28	Fine-scale chemostratigraphy of cross-sectioned hydrogenous ferromanganese nodules from the western North Pacific. <i>Island Arc</i> , 2021, 30, e12395.	1.1	11
29	Effect of Serpentine Dehydration in Subducting Slabs on Isotopic Diversity in Recycled Oceanic Crust and Its Role in Isotopic Heterogeneity of the Mantle. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5449-5472.	2.5	8
30	Halogen Heterogeneity in the Lithosphere and Evolution of Mantle Halogen Abundances Inferred From Intraplate Mantle Xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 952-973.	2.5	8
31	A Geochemical and Petrological View of Mantle Plume. , 2007, , 165-186.		8
32	A simple determination of whole-rock major- and trace-element composition for peridotite by micro-XRF spectrometer and ICP-MS using fused-glass bead. <i>Geochemical Journal</i> , 2020, 54, 81-90.	1.0	8
33	Basic properties of transition remanent magnetizations of magnetite in relation to the ambient field using granite samples. <i>Geophysical Journal International</i> , 2015, 200, 25-34.	2.4	3
34	Formation process of sub-micrometer-sized metasomatic platinum-group element-bearing sulfides in a Tahitian harzburgite xenolith. <i>Canadian Mineralogist</i> , 2020, 58, 99-114.	1.0	3
35	Intermittent Beginning to the Formation of Hydrogenous Ferromanganese Nodules in the Vast Field: Insights from Multi-Element Chemostratigraphy Using Microfocus X-ray Fluorescence. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1246.	2.0	3
36	Major element composition of an Early Enriched Reservoir: constraints from ¹⁴² Nd/ ¹⁴⁴ Nd isotope systematics in the early Earth and high-pressure melting experiments of a primitive peridotite. <i>Progress in Earth and Planetary Science</i> , 2016, 3, .	3.0	2

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37	Enrichment of chalcophile elements in seawater accompanying the end-Cretaceous impact event. Bulletin of the Geological Society of America, 2020, 132, 2055-2066.	3.3	2
38	Formation of a third volcanic chain in Kamchatka: generation of unusual subduction-related magmas. Contributions To Mineralogy and Petrology, 1995, 120, 117-128.	3.1	2
39	MANTLE PLUMES AND HOT SPOTS. , 2005, , 335-343.		1
40	Ocean Island Basalts in Polynesia, South Pacific. Journal of Geography (Chigaku Zasshi), 2013, 122, 539-545.	0.3	1
41	High-temperature structural change and microtexture formation of sillimanite and its phase relation with mullite. American Mineralogist, 2019, 104, 1051-1061.	1.9	1
42	Crustal anorthosite formation by deep-seated hydrothermal circulation beneath fast-spreading axis: Constraints from chronological approach, Sr isotope, and fluid-inclusion investigation. Island Arc, 2021, 30, e12423.	1.1	1
43	Changes in elements and magnetic properties of Sendai Bay sediments caused by the 2011 Tohoku-oki tsunami. Island Arc, 0, , .	1.1	1
44	Mantle Plumes and Hotspots. , 2013, , .		0
45	Differentiation in the Early Earth's Interior: Constraints from Isotope Geochemistry and High-Pressure Experiments. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2017, 27, 256-265.	0.0	0
46	Contrasting behavior of noble-metal elements during magmatic differentiation in basalts from the Cook Islands, Polynesia. Geology, 2000, 28, 131-134.	4.4	0
47	NON-DESTRUCTIVE DETECTION OF PLATINUM-BEARING MINERAL FROM GEOLOGICAL SAMPLE BY SUBTRACTION IMAGING WITH SYNCHROTRON RADIATION X-RAY. , 2010, , 47-56.		0
48	Pressure effect on cathodoluminescence emission intensity recorded in metamorphosed detrital zircons of the Sanbagawa schists. Island Arc, 0, , .	1.1	0