

Takamoto Okudaira

List of Publications by Year in descending order

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65
papers

1,727
citations

279798

23
h-index

289244

40
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66
all docs

66
docs citations

66
times ranked

1336
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical characteristics of newly discovered black smoker fluids and associated hydrothermal plumes at the Rodriguez Triple Junction, Central Indian Ridge. <i>Earth and Planetary Science Letters</i> , 2001, 193, 371-379.	4.4	150
2	First Hydrothermal Vent Communities from the Indian Ocean Discovered. <i>Zoological Science</i> , 2001, 18, 717-721.	0.7	120
3	A new estimate of the conditions for transition from basal $\{110\}$ to prism $[c]$ slip in naturally deformed quartz. <i>Tectonophysics</i> , 1995, 250, 31-46.	2.2	119
4	Late Paleoproterozoic magmatism in Delhi Fold Belt, NW India and its implication: evidence from EPMA chemical ages of zircons. <i>Journal of Asian Earth Sciences</i> , 2003, 22, 189-207.	2.3	109
5	Development of shape- and lattice-preferred orientations of amphibole grains during initial cataclastic deformation and subsequent deformation by dissolution-precipitation creep in amphibolites from the Ryoke metamorphic belt, SW Japan. <i>Journal of Structural Geology</i> , 2004, 26, 793-805.	2.3	81
6	Dissolution and precipitation processes in deformed amphibolites: an example from the ductile shear zone of the Ryoke metamorphic belt, SW Japan. <i>Journal of Metamorphic Geology</i> , 2002, 20, 297-308.	3.4	68
7	The Mesoproterozoic Kibaride belt (Katanga, SE D.R. Congo). <i>Journal of African Earth Sciences</i> , 2006, 46, 1-35.	2.0	68
8	U-Pb zircon geochronology and petrology of granitoids from Mitwaba (Katanga, Congo): implications for the evolution of the Mesoproterozoic Kibaran belt. <i>Precambrian Research</i> , 2004, 132, 79-106.	2.7	64
9	Crustal Growth by Magmatic Accretion Constrained by Metamorphic P-T Paths and Thermal Models of the Kohistan Arc, NW Himalayas. <i>Journal of Petrology</i> , 2004, 45, 2287-2302.	2.8	58
10	Crustal thickening of the lower crust of the Kohistan arc (N. Pakistan) deduced from Al zoning in clinopyroxene and plagioclase. <i>Journal of Metamorphic Geology</i> , 1998, 16, 729-748.	3.4	57
11	Temperature-time path for the low-pressure Ryoke metamorphism, Japan, based on chemical zoning in garnet. <i>Journal of Metamorphic Geology</i> , 1996, 14, 427-440.	3.4	54
12	Prism and basal plane parallel subgrain boundaries in quartz: a microstructural geothermobarometer. <i>Journal of Metamorphic Geology</i> , 1998, 16, 141-146.	3.4	47
13	High ductility of K-feldspar and development of granitic banded ultramylonite in the Ryoke metamorphic belt, SW Japan. <i>Journal of Structural Geology</i> , 2007, 29, 1083-1098.	2.3	44
14	Thermal evolution of the Ryoke metamorphic belt, southwestern Japan: Tectonic and numerical modeling. <i>Island Arc</i> , 1996, 5, 373-385.	1.1	39
15	Cooling and inferred exhumation history of the Ryoke metamorphic belt in the Yanai district, south-west Japan: Constraints from Rb-Sr and fission-track ages of gneissose granitoid and numerical modeling. <i>Island Arc</i> , 2001, 10, 98-115.	1.1	37
16	Electrical conductivity of fluid-bearing quartzite under lower crustal conditions. <i>Physics of the Earth and Planetary Interiors</i> , 2012, 198-199, 1-8.	1.9	35
17	High-temperature fracturing and subsequent grain-size-sensitive creep in lower crustal gabbros: Evidence for coseismic loading followed by creep during decaying stress in the lower crust?. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3119-3141.	3.4	34
18	Estimates of stress and strain rate in mylonites based on the boundary between the fields of grain-size sensitive and insensitive creep. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32

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19	Petrology and geochronology of Mesoproterozoic mafic-intermediate plutonic rocks from Mitwaba (D. R. Congo): implications for the evolution of the Kibaran belt in central Africa. <i>Geological Magazine</i> , 2005, 142, 109-130.	1.5	30
20	Grain size reduction due to fracturing and subsequent grain-size-sensitive creep in a lower crustal shear zone in the presence of a CO ₂ -bearing fluid. <i>Journal of Structural Geology</i> , 2017, 95, 171-187.	2.3	30
21	Sm-Nd and Rb-Sr dating of amphibolite from the Nellore-Khammam schist belt, SE India: constraints on the collision of the Eastern Ghats terrane and Dharwar-Bastar craton. <i>Geological Magazine</i> , 2001, 138, 495-498.	1.5	28
22	U-Pb SHRIMP Dating of Detrital Zircons from the Nzilo Group (Kibaran Belt): Implications for the Source of Sediments and Mesoproterozoic Evolution of Central Africa. <i>Journal of Geology</i> , 2007, 115, 99-113.	1.4	27
23	Chlorite—source of arsenic groundwater pollution in the Holocene aquifer of Bangladesh. <i>Geochemical Journal</i> , 2012, 46, 381-391.	1.0	25
24	Solution-precipitation of K-feldspar in deformed granitoids and its relationship to the distribution of water. <i>Tectonophysics</i> , 2012, 532-535, 175-185.	2.2	24
25	The Use of Size Distributions of Spheroidal Carbonaceous Particles in Swimming Pool Deposits for Evaluating Atmospheric Particle Behaviour. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	24
26	Characteristic Differences in the Chemical Composition of Spheroidal Carbonaceous Particles in Japanese and Chinese Cities. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 4761-4767.	2.4	23
27	Paired metamorphic belts of SW Japan. , 0, , 101-124.		23
28	Grain-size-sensitive creep of plagioclase accompanied by solution-precipitation and mass transfer under mid-crustal conditions. <i>Journal of Structural Geology</i> , 2013, 51, 61-73.	2.3	22
29	U-Pb SHRIMP ages of detrital zircons from Hiriyur Formation in Chitradurga greenstone belt and its implication to the Neoproterozoic evolution of Dharwar craton, south India. <i>Journal of the Geological Society of India</i> , 2016, 87, 43-54.	1.1	21
30	Mid-crustal horizontal shear zone in the forearc region of the mid-Cretaceous SW Japan arc, inferred from strain analysis of rocks within the Ryoke metamorphic belt. <i>Journal of Asian Earth Sciences</i> , 2009, 35, 34-44.	2.3	20
31	Sulphur-isotopic composition of the deep-sea mussel <i>Bathymodiolus marisindicus</i> from currently active hydrothermal vents in the Indian Ocean. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2003, 83, 841-848.	0.8	17
32	Thermal consequences of the formation of a slab window beneath the Mid-Cretaceous southwest Japan arc: A 2-D numerical analysis. <i>Island Arc</i> , 2004, 13, 520-532.	1.1	16
33	Cooling and inferred exhumation history of the Ryoke metamorphic belt in the Yanai district, southwest Japan: Constraints from Rb-Sr and fission-track ages of gneissose granitoid and numerical modeling. <i>Island Arc</i> , 2001, 10, 98-115.	1.1	15
34	SHRIMP U-Pb zircon ages of granitoids adjacent to Chitradurga shear zone, Dharwar craton, South India and its tectonic implications. <i>Journal of Mineralogical and Petrological Sciences</i> , 2015, 110, 224-234.	0.9	13
35	Inhomogeneous deformation of metamorphic tectonites of contrasting lithologies: Strain analysis of metapelite and metachert from the Ryoke metamorphic belt, SW Japan. <i>Journal of Structural Geology</i> , 2008, 30, 39-49.	2.3	12
36	Chemical characteristics of Northeast Asian fly ash particles: Implications for their long-range transportation. <i>Atmospheric Environment</i> , 2014, 95, 375-382.	4.1	12

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37	Grain-size-sensitive deformation of upper greenschist- to lower amphibolite-facies metacherts from a low-P/high-T metamorphic belt. <i>Tectonophysics</i> , 2010, 492, 141-149.	2.2	11
38	Cretaceous Events at the Eastern Margin of East Asia Recorded in Rocks of the Ryoke Belt, SW Japan. <i>Journal of Geography (Chigaku Zasshi)</i> , 2011, 120, 452-465.	0.3	10
39	Microstructural evidence for the deep pulverization in a lower crustal meta-anorthosite. <i>Terra Nova</i> , 2018, 30, 399-405.	2.1	10
40	Ca-W metasomatism in high-grade matapelites: an example from scheelite mineralization in Kerala Khondalite Belt, southern India. <i>Mineralogical Magazine</i> , 2003, 67, 465-483.	1.4	9
41	Relationship between surface morphology and chemical composition of spheroidal carbonaceous particles within sediment core samples recovered from Osaka Bay, Japan. <i>Environmental Earth Sciences</i> , 2010, 59, 1723-1729.	2.7	8
42	The spatial and temporal distributions of spheroidal carbonaceous particles from sediment core samples from industrial cities in Japan and China. <i>Environmental Earth Sciences</i> , 2011, 64, 833-840.	2.7	8
43	Reaction-induced grain boundary cracking and anisotropic fluid flow during prograde devolatilization reactions within subduction zones. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	8
44	Recovering the past history of natural recording media by Bayesian inversion. <i>Physical Review E</i> , 2018, 98, .	2.1	7
45	Geology and metamorphic zonation of the Ryoke Metamorphic Belt on Kasado-jima Island, SW Japan. <i>Journal of Mineralogical and Petrological Sciences</i> , 2006, 101, 240-253.	0.9	7
46	Neoproterozoic Deformation at a Boundary Zone Between the Nellore-Khammam Schist Belt and Pakhal Basin, SE India: Strain Analysis of Deformed Pebbles. <i>Gondwana Research</i> , 2000, 3, 349-359.	6.0	6
47	Fracturing and Formation of Ductile Shear Zones in the Continental Lower Crust. <i>Journal of Geography (Chigaku Zasshi)</i> , 2019, 128, 747-760.	0.3	6
48	Nahcolite in fluid inclusions from the Ryoke metamorphic rocks and its implication for fluid genesis. <i>Journal of Mineralogical and Petrological Sciences</i> , 2006, 101, 254-259.	0.9	6
49	Crystallographic preferred orientations of plagioclase via grain boundary sliding in a lower-crustal anorthositic ultramylonite. <i>International Journal of Earth Sciences</i> , 2019, 108, 2057-2069.	1.8	5
50	Grain-boundary diffusion rates inferred from grain-size variations of quartz in metacherts from a contact aureole. <i>American Mineralogist</i> , 2013, 98, 680-688.	1.9	4
51	Elemental compositions and sizes of carbonaceous fly ash particles from atmospheric deposition collected at Cape Hedo, Okinawa, Japan: Implications for their long-range transportation and source region variation. <i>Atmospheric Pollution Research</i> , 2020, 11, 393-400.	3.8	4
52	EPMA Chemical Ages of Paleoproterozoic Granitoids in NW India and Their Significance. <i>Gondwana Research</i> , 2001, 4, 577-578.	6.0	3
53	Geochemical characteristics of hydrous basaltic magmas due to assimilation and fractional crystallization: the Ikoma gabbroic complex, southwest Japan. <i>Mineralogy and Petrology</i> , 2016, 110, 639-662.	1.1	3
54	First Report of Scheelite Mineralization Within Granulite Facies Supracrustals of Kerala Khondalite Belt, Southern India. <i>Gondwana Research</i> , 2001, 4, 780-783.	6.0	2

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55	Reply to the comment on "Arsenic release from biotite into a Holocene groundwater aquifer in Bangladesh" by Hossain M. Anawar and Martin Mihaljević. Applied Geochemistry, 2009, 24, 486-490.	3.0	2
56	Reversely zoned plagioclase in lower crustal meta-anorthosites: An indicator of multistage fracturing and metamorphism in the lower crust. American Mineralogist, 2020, 105, 1002-1013.	1.9	2
57	Formation processes of the fine-grained mafic rocks of the Ryoke metamorphic belt in the Asuka area, central Kinki district, SW Japan.. Journal of the Geological Society of Japan, 2005, 111, 141-155.	0.6	2
58	The record of sedimentary spheroidal carbonaceous particles (SCPs) in Beppu Bay, southern Japan, compared to historical trends of industrial activity and atmospheric pollution: Further evidence for SCPs as a marker for Anthropocene industrialization. Infrastructure Asset Management, 0, , 205301962210765.	1.6	2
59	Dynamics and Thermal Modeling in Low-pressure/High-temperature Metamorphic Belts. Zisin (Journal) Tj ETQq1 1 0,784314 rgBT /Overl 0.2	0.2	1
60	Thermal evolution of the Ryoke metamorphic belt, southwestern Japan: Tectonic and numerical modeling: Reply. Island Arc, 2002, 11, 146-148.	1.1	1
61	Dip angles of active faults from the surface to the seismogenic zone inferred from a 2D numerical analysis of visco-elasto-plastic models: a case study for the Osaka Plain. Earth, Planets and Space, 2021, 73, .	2.5	1
62	Architecture of onshore fault zones. Journal of the Geological Society of Japan, 2018, 124, 759-775.	0.6	1
63	The Ryoke Metamorphic Belt (Japan): An Excellent Example of Low-P/High-T Metamorphic Belt. Gondwana Research, 1997, 1, 147-148.	6.0	0
64	Elliptically polarized light in alkali amphibole from Pocos de Caldas, Brazil. Journal of Mineralogical and Petrological Sciences, 2004, 99, 59-66.	0.9	0
65	Spheroidal carbonaceous particles (SCPs): their characteristic and application to environmental geology. Journal of the Geological Society of Japan, 2014, 120, 287-298.	0.6	0