

# Hidenori Kumagai

## List of Publications by Year in descending order

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44  
papers

1,109  
citations

394286

19  
h-index

395590

33  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1239  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of highly Zn-enriched sulfide scale at a deep-sea artificial hydrothermal vent, Iheya-North Knoll, Okinawa Trough. <i>Mineralium Deposita</i> , 2021, 56, 975.	1.7	6
2	Resistivity and Induced Polarization characteristics of sediments from modern submarine hydrothermal system in Okinawa Trough, Japan (CHIKYU CK16-01 cruise). , 2019, , .		0
3	Deep-biosphere methane production stimulated by geofluids in the Nankai accretionary complex. <i>Science Advances</i> , 2018, 4, eaao4631.	4.7	79
4	Spontaneous and Widespread Electricity Generation in Natural Deep-sea Hydrothermal Fields. <i>Angewandte Chemie</i> , 2017, 129, 5819-5822.	1.6	10
5	Halogen variations through the quenched margin of a <sc>M</sc>ORB lava: Evidence for direct assimilation of seawater during eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 2413-2428.	1.0	5
6	Spontaneous and Widespread Electricity Generation in Natural Deep-sea Hydrothermal Fields. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5725-5728.	7.2	56
7	Deepest and hottest hydrothermal activity in the Okinawa Trough: the Yokosuka site at Yaeyama Knoll. <i>Royal Society Open Science</i> , 2017, 4, 171570.	1.1	48
8	Depth profiles of resistivity and spectral IP for active modern submarine hydrothermal deposits: a case study from the Iheya North Knoll and the Iheya Minor Ridge in Okinawa Trough, Japan. <i>Earth, Planets and Space</i> , 2017, 69, .	0.9	21
9	<sup>40</sup> Ar- <sup>39</sup> Ar dating and tectonic implications of volcanic rocks recovered at IODP Hole U1342A and D on Bowers Ridge, Bering Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2016, 125-126, 214-226.	0.6	8
10	Hybrid troctolites from mid-ocean ridges: inherited mantle in the lower crust. <i>Lithos</i> , 2015, 232, 124-130.	0.6	35
11	Petrology of Peridotites and Related Gabbroic Rocks Around the Kairei Hydrothermal Field in the Central Indian Ridge. , 2015, , 177-193.		4
12	Active Rifting Structures in Iheya Graben and Adjacent Area of the Mid-Okinawa Trough Observed Through Seismic Reflection Surveys. , 2015, , 361-368.		6
13	Water column imaging with multibeam echo-sounding in the mid-Okinawa Trough: Implications for distribution of deep-sea hydrothermal vent sites and the cause of acoustic water column anomaly. <i>Geochemical Journal</i> , 2015, 49, 579-596.	0.5	67
14	Gamma Ray Doses in Water Around Sea Floor Hydrothermal Area in the Southern Mariana Trough. , 2015, , 603-606.		0
15	Petrology and Geochemistry of Mid-Ocean Ridge Basalts from the Southern Central Indian Ridge. , 2015, , 163-175.		3
16	Evaluating Hydrothermal System Evolution Using Geochronological Dating and Biological Diversity Analyses. , 2015, , 49-59.		1
17	Estimation of sulfur, fluorine, chlorine and bromine fluxes at Mid Ocean Ridges using a new experimental crushing and extraction method. <i>Geochemical Journal</i> , 2012, 46, e21-e26.	0.5	4
18	Environmental Gamma-Ray Observation in Deep Sea. , 2012, , .		5

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19	Hydrothermal fluid flow system around the Iheya North Knoll in the mid-Okinawa trough based on seismic reflection data. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 213-214, 41-50.	0.8	71
20	Diversity of melt conduits in the Izu-Bonin-Mariana forearc mantle: Implications for the earliest stage of arc magmatism. <i>Geology</i> , 2011, 39, 411-414.	2.0	70
21	Hydrothermal plumes imaged by high-resolution side-scan sonar on a cruising AUV, <i>Urashima</i> . <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	41
22	Igneous, Alteration and Exhumation Processes Recorded in Abyssal Peridotites and Related Fault Rocks from an Oceanic Core Complex along the Central Indian Ridge. <i>Journal of Petrology</i> , 2009, 50, 1299-1325.	1.1	69
23	Serpentinized troctolites exposed near the Kairei Hydrothermal Field, Central Indian Ridge: Insights into the origin of the Kairei hydrothermal fluid supporting a unique microbial ecosystem. <i>Earth and Planetary Science Letters</i> , 2009, 280, 128-136.	1.8	86
24	Experimental study for noble gas release and exchange under high-speed frictional melting. <i>Chemical Geology</i> , 2009, 266, 96-103.	1.4	8
25	Magnetic structure of an oceanic core complex at the southernmost Central Indian Ridge: Analysis of shipboard and deep-sea three-component magnetometer data. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	21
26	Geochemical and Geochronological Studies on the Evolution of Submarine Hydrothermal Systems. <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 1186-1204.	0.1	2
27	Mobile noble gas analysis: A trial of on-site measurement of noble gas elemental abundance. <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 41-49.	0.2	1
28	Volatile gas analysis released from simulated faults during frictional melting: <i>JAMSTEC Report of Research and Development</i> , 2009, 2009, 51-57.	0.2	0
29	Geological background of the Kairei and Edmond hydrothermal fields along the Central Indian Ridge: Implications of their vent fluids' distinct chemistry. <i>Geofluids</i> , 2008, 8, 239-251.	0.3	112
30	Do Off-ridge Volcanoes on the East Pacific Rise Originate from the Moho Transition Zone?. <i>Journal of Geography (Chigaku Zasshi)</i> , 2008, 117, 190-219.	0.1	9
31	Variations of Chemical Compositions of Mid-ocean Ridge Basalts (MORB) and their Origin. <i>Journal of Geography (Chigaku Zasshi)</i> , 2008, 117, 124-145.	0.1	5
32	Elemental Mobilizations during Hydrothermal Alteration of Oceanic Lithosphere. <i>Journal of Geography (Chigaku Zasshi)</i> , 2008, 117, 220-252.	0.1	3
33	Petrology of local concentration of chromian spinel in dunite from the slow-spreading Southwest Indian Ridge. <i>European Journal of Mineralogy</i> , 2007, 19, 871-882.	0.4	39
34	Discovery of lanthanide tetrad effect in an oceanic plagiogranite from an Ocean Core Complex at the Central Indian Ridge 25.DEG.S. <i>Geochemical Journal</i> , 2007, 41, 135-140.	0.5	20
35	Discrete plumbing systems and heterogeneous magma sources of a 24 km <sup>3</sup> off-axis lava field on the western flank of East Pacific Rise, 14°S. <i>Earth and Planetary Science Letters</i> , 2007, 258, 61-72.	1.8	30
36	Transition from seamount chain to intraplate volcanic ridge at the East Pacific Rise. <i>Geology</i> , 2006, 34, 293.	2.0	14

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37	Ultramafics-Hydrothermalism-Hydrogenesis-HyperSLiME (UltraH <sup>3</sup> ) linkage: a key insight into early microbial ecosystem in the Archean deep-sea hydrothermal systems. <i>Paleontological Research</i> , 2006, 10, 269-282.	0.5	73
38	Noble gas studies of mantle-derived xenoliths: mantle metasomatism revealed by noble gas isotopes-a review. <i>Ganseki Kobutsu Kagaku</i> , 2005, 34, 173-185.	0.1	2
39	Noble gas signatures around the Rodriguez Triple Junction in the Indian Ocean: Constraints on magma genesis in a ridge system. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5567-5583.	1.6	8
40	Correction to "Noble gas signatures of abyssal gabbros and peridotites at an Indian Ocean core complex" <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	0
41	Noble gas signatures of abyssal gabbros and peridotites at an Indian Ocean core complex. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	1.0	19
42	Relationship between submarine MORB glass textures and atmospheric component of MORBs. <i>Chemical Geology</i> , 2003, 200, 1-24.	1.4	21
43	Variations of noble gas abundances and isotope ratios in a single MORB pillow. <i>Geophysical Research Letters</i> , 1998, 25, 3891-3894.	1.5	21
44	The active period of the Ayu Trough estimated from K-Ar ages:the southeastern spreading center of Philippine Sea Plate.. <i>Geochemical Journal</i> , 1996, 30, 81-87.	0.5	4