

Akihiro Hachikubo

List of Publications by Year in descending order

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83
papers

1,926
citations

304368

22
h-index

288905

40
g-index

85
all docs

85
docs citations

85
times ranked

1689
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of snow physical parameters on spectral albedo and bidirectional reflectance of snow surface. <i>Journal of Geophysical Research</i> , 2000, 105, 10219-10236.	3.3	239
2	In-situ measured spectral directional emissivity of snow and ice in the 8–14 μ m atmospheric window. <i>Remote Sensing of Environment</i> , 2006, 100, 486-502.	4.6	129
3	Effects of snow physical parameters on shortwave broadband albedos. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	128
4	Structure and thermal expansion of natural gas clathrate hydrates. <i>Chemical Engineering Science</i> , 2006, 61, 2670-2674.	1.9	85
5	Coexistence of structure I and II gas hydrates in Lake Baikal suggesting gas sources from microbial and thermogenic origin. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	84
6	Gas hydrate of Lake Baikal: Discovery and varieties. <i>Journal of Asian Earth Sciences</i> , 2013, 62, 162-166.	1.0	76
7	Reflective properties of natural snow: approximate asymptotic theory versus in situ measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2005, 43, 1529-1535.	2.7	71
8	ADEOS-II/GLI snow/ice products – Part II: Validation results using GLI and MODIS data. <i>Remote Sensing of Environment</i> , 2007, 111, 274-290.	4.6	69
9	Effect of wind on surface hoar growth on snow. <i>Journal of Geophysical Research</i> , 1997, 102, 4367-4373.	3.3	40
10	Preservation phenomena of methane hydrate in pore spaces. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17449.	1.3	40
11	Hydrate-bearing structures in the Sea of Okhotsk. <i>Eos</i> , 2005, 86, 13.	0.1	39
12	Methane Clathrate Hydrates Formed within Hydrophilic and Hydrophobic Media: Kinetics of Dissociation and Distortion of Host Structure. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7081-7085.	1.5	39
13	Lattice Expansion of Clathrate Hydrates of Methane Mixtures and Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6928-6931.	7.2	36
14	Distribution of Butane in the Host Water Cage of Structure-II Clathrate Hydrates. <i>Chemistry - A European Journal</i> , 2014, 20, 17207-17213.	1.7	34
15	Natural gas hydrates with locally different cage occupancies and hydration numbers in Lake Baikal. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	31
16	Isotopic fractionation of methane and ethane hydrates between gas and hydrate phases. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	30
17	Modeling angular-dependent spectral emissivity of snow and ice in the thermal infrared atmospheric window. <i>Applied Optics</i> , 2013, 52, 7243.	2.1	30
18	Molecular and Isotopic Composition of Volatiles in Gas Hydrates and in Sediment from the Joetsu Basin, Eastern Margin of the Japan Sea. <i>Energies</i> , 2015, 8, 4647-4666.	1.6	30

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19	Molecular and isotopic characteristics of gas hydrate-bound hydrocarbons in southern and central Lake Baikal. <i>Geo-Marine Letters</i> , 2010, 30, 321-329.	0.5	28
20	Model of formation of double structure gas hydrates in Lake Baikal based on isotopic data. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	27
21	First discovery and formation process of authigenic siderite from gas hydrate-bearing mud volcanoes in fresh water: Lake Baikal, eastern Siberia. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	25
22	Distinct microbial communities thriving in gas hydrate-associated sediments from the eastern Japan Sea. <i>Journal of Asian Earth Sciences</i> , 2014, 90, 243-249.	1.0	25
23	SNOWPACK model simulations for snow in Hokkaido, Japan. <i>Annals of Glaciology</i> , 2004, 38, 123-129.	2.8	24
24	Estimation of Gas Composition and Cage Occupancies in CH ₄ -C ₂ H ₆ Hydrates by CP-MAS ¹³ C NMR Technique. <i>Journal of the Japan Petroleum Institute</i> , 2007, 50, 132-138.	0.4	24
25	Isotopic composition of gas hydrates in subsurface sediments from offshore Sakhalin Island, Sea of Okhotsk. <i>Geo-Marine Letters</i> , 2010, 30, 313-319.	0.5	23
26	In situ measurements of polarization properties of snow surface under the Brewster geometry in Hokkaido, Japan, and northwest Greenland ice sheet. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,946.	1.2	23
27	Monte Carlo simulations of spectral albedo for artificial snowpacks composed of spherical and nonspherical particles. <i>Applied Optics</i> , 2006, 45, 5310.	2.1	21
28	Structure and Density Comparison of Noble Gas Hydrates Encapsulating Xenon, Krypton and Argon. <i>ChemPhysChem</i> , 2019, 20, 2518-2524.	1.0	21
29	Thermal anomalies associated with shallow gas hydrates in the K-2 mud volcano, Lake Baikal. <i>Geo-Marine Letters</i> , 2012, 32, 407-417.	0.5	20
30	Biogeochemical Cycle of Methanol in Anoxic Deep-Sea Sediments. <i>Microbes and Environments</i> , 2016, 31, 190-193.	0.7	20
31	Physical and thermal properties of mud-dominant sediment from the Joetsu Basin in the eastern margin of the Japan Sea. <i>Marine Geophysical Researches</i> , 2017, 38, 393-407.	0.5	20
32	Numerical modelling of sublimation on snow and comparison with field measurements. <i>Annals of Glaciology</i> , 2001, 32, 27-32.	2.8	19
33	Isotopic composition of dissolved inorganic carbon in subsurface sediments of gas hydrate-bearing mud volcanoes, Lake Baikal: implications for methane and carbonate origin. <i>Geo-Marine Letters</i> , 2010, 30, 427-437.	0.5	17
34	Gas hydrates in Lake Baikal. <i>Limnology and Freshwater Biology</i> , 2018, , 66-70.	0.1	17
35	Effects of Snow Grain Shape and Mixing State of Snow Impurity on Retrieval of Snow Physical Parameters From Ground-Based Optical Instrument. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031858.	1.2	16
36	Crystallization of authigenic carbonates in mud volcanoes at Lake Baikal. <i>Geochemistry International</i> , 2008, 46, 985-995.	0.2	15

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37	Possible variation in methane flux caused by gas hydrate formation on the northeastern continental slope off Sakhalin Island, Russia. <i>Geo-Marine Letters</i> , 2012, 32, 525-534.	0.5	15
38	Molecular and isotopic composition of hydrate-bound and dissolved gases in the southern basin of Lake Baikal, based on an improved headspace gas method. <i>Geo-Marine Letters</i> , 2012, 32, 465-472.	0.5	15
39	Effects of temperature and grain type on time variation of snow specific surface area. <i>Bulletin of Glaciological Research</i> , 2014, 32, 47-53.	0.5	15
40	Geochemical characteristics of methane from sediments of the underwater high Posolskaya Bank (Lake Baikal). <i>Lithology and Mineral Resources</i> , 2017, 52, 102-110.	0.3	13
41	Structural Studies of Lake Baikal Natural Gas Hydrates. <i>Journal of Structural Chemistry</i> , 2019, 60, 1437-1455.	0.3	13
42	Shallow-rooted mud volcanism in Lake Baikal. <i>Marine and Petroleum Geology</i> , 2019, 102, 580-589.	1.5	13
43	Characteristics of hydrate-bound gas retrieved at the Kedr mud volcano (southern Lake Baikal). <i>Scientific Reports</i> , 2020, 10, 14747.	1.6	13
44	Upwarding gas source and postgenetic processes in the shallow sediments from the ARAON Mounds, Chukchi Sea. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103223.	2.1	13
45	Daytime preservation of surface-hoar crystals. <i>Annals of Glaciology</i> , 1998, 26, 22-26.	2.8	12
46	Raman spectroscopic and calorimetric observations on natural gas hydrates with cubic structures I and II obtained from Lake Baikal. <i>Geo-Marine Letters</i> , 2012, 32, 419-426.	0.5	11
47	Isotopic Composition and Crystallographic Properties of Gas Hydrate in the Sea of Okhotsk. <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 207-221.	0.1	10
48	Methane Hydrates and Plumes in the Sea of Okhotsk. <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 175-193.	0.1	10
49	A physicochemical model for the formation of gas hydrates of different structural types in K-2 mud volcano (Kukui Canyon, Lake Baikal). <i>Russian Geology and Geophysics</i> , 2013, 54, 475-482.	0.3	10
50	Manifestation of carbonate-barite mineralization around methane seeps in the Sea of Okhotsk (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.3	10
51	AGE OF MUD BRECCIA FROM MUD VOLCANOES IN ACADEMICIAN RIDGE, LAKE BAIKAL. <i>Geodinamika i Tektonofizika</i> , 2017, 8, 923-932.	0.3	10
52	Gas hydrate forming fluids on the NE Sakhalin slope, Sea of Okhotsk. <i>Geological Society Special Publication</i> , 2009, 319, 51-72.	0.8	9
53	Authigenic rhodochrosite from a gas hydrate-bearing structure in Lake Baikal. <i>International Journal of Earth Sciences</i> , 2018, 107, 2011-2022.	0.9	8
54	Phase Equilibrium of Isotopologue Methane Hydrates Enclathrated CH ₃ D and CD ₄ . <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2266-2270.	1.0	8

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55	Distortion of the Host Water Cages of Structure I Gas Hydrates: Structural Analysis of C_2H_4 Hydrate by Powder X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2021, 125, 28150-28156.	1.5	8
56	Geochemistry of Pore Waters from Gas Hydrate-bearing Sediment Cores Retrieved at the Sea of Okhotsk. <i>Journal of Geography (Chigaku Zasshi)</i> , 2009, 118, 194-206.	0.1	7
57	Dissolved gas analysis of pore water in subsurface sediments retrieved at eastern margin of Japan Sea (MD179 gas hydrates cruise). <i>Journal of the Japanese Association for Petroleum Technology</i> , 2012, 77, 268-273.	0.0	7
58	Geochemistry of pore waters from gas hydrate research in the eastern margin of the Japan Sea (MD179). <i>Journal of the Japanese Association for Petroleum Technology</i> , 2012, 77, 262-267.	0.0	7
59	Hydrogen and oxygen isotopic anomalies in pore waters suggesting clay mineral dehydration at gas hydrate-bearing Kedr mud volcano, southern Lake Baikal, Russia. <i>Geo-Marine Letters</i> , 2018, 38, 403-415.	0.5	7
60	X-Ray attenuation and image contrast in the X-ray computed tomography of clathrate hydrates depending on guest species. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27658-27665.	1.3	7
61	Sequentially sampled gas hydrate water, coupled with pore water and bottom water isotopic and ionic signatures at the Kukuy mud volcano, Lake Baikal: ambiguous deep-rooted source of hydrate-forming water. <i>Geo-Marine Letters</i> , 2014, 34, 241.	0.5	6
62	Daytime preservation of surface-hoar crystals. <i>Annals of Glaciology</i> , 1998, 26, 22-26.	2.8	5
63	Observations and simulations of the formation of the faceted snow crystals in the weak-layer of the 1998 Niseko Haru no Taki avalanche. <i>Cold Regions Science and Technology</i> , 2000, 31, 235-247.	1.6	5
64	Carbon Isotope Fractionation during the Formation of CO_2 Hydrate and Equilibrium Pressures of $^{12}CO_2$ and $^{13}CO_2$ Hydrates. <i>Molecules</i> , 2021, 26, 4215.	1.7	5
65	Hydrocarbon Gases of the Gorevoi Utes Underwater Oil-Gas Seep (Lake Baikal, Russia). <i>Russian Geology and Geophysics</i> , 2019, 60, 1188-1194.	0.3	5
66	Measurement of specific surface area of fresh solid precipitation particles in heavy snowfall regions of Japan. <i>Cryosphere</i> , 2019, 13, 2713-2732.	1.5	4
67	Spectral degree of linear polarization and neutral points of polarization in snow and ice surfaces. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 273, 107845.	1.1	4
68	Methane with Abnormally High $\delta^{13}C$ and δ^2D Values from the Coastal Hot Springs in Lake Baikal. <i>Lithology and Mineral Resources</i> , 2020, 55, 439-444.	0.3	3
69	Dissociation kinetics of propane-methane and butane-methane hydrates below the melting point of ice. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15003-15009.	1.3	3
70	Phase Equilibrium of Methane Hydrate Encapsulated Isotopologue $^{13}CH_4$ and Singly Deuterated Methane. <i>Journal of Chemical & Engineering Data</i> , 0, , .	1.0	3
71	The Position of Gas Hydrates in the Sedimentary Strata and in the Geological Structure of Lake Baikal. , 2022, , 465-471.		3
72	Crystal Structure and Guest Distribution of N_2O Hydrate Determined by Powder X-ray Diffraction Measurements. <i>Crystal Growth and Design</i> , 2022, 22, 1345-1351.	1.4	3

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73	Temperature effects on the C-H symmetric stretching vibrational frequencies of guest hydrocarbon molecules in 5 ¹² , 5 ¹² 6 ² and 5 ¹² 6 ⁴ cages of sl and sll clathrate hydrates. RSC Advances, 2020, 10, 37582-37587.	1.7	2
74	A Long-Lived Center of Gas-Fluid Emanations on the Western Slope of the Kuril Basin (Sea of Japan) Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 7	0.3	2
75	Effect of temperature and large guest molecules on the C-H symmetric stretching vibrational frequencies of methane in structure H and I clathrate hydrates. RSC Advances, 2020, 10, 17473-17478.	1.7	1
76	Dissociation heat of mixed-gas hydrate composed of methane and ethane. Journal of the Japanese Society of Snow and Ice, 2009, 71, 341-351.	0.0	1
77	A New Oil and Gas Seep in Lake Baikal. Petroleum Chemistry, 2022, 62, 475-481.	0.4	1
78	Impact of High Methane Flux on the Properties of Pore Fluid and Methane-Derived Authigenic Carbonate in the ARAON Mounds, Chukchi Sea. Frontiers in Marine Science, 0, 9, .	1.2	1
79	GLI cryosphere products and validation. , 0, , .		0
80	Possibility to discriminate snow types using brightness temperatures in the thermal infrared wavelength region. , 2013, , .		0
81	Studies on Atmosphere, Snow/Ice, and Glacial Microbes on Greenland Ice Sheet by SIGMA and relevant projects. Journal of the Japanese Society of Snow and Ice, 2021, 83, 169-191.	0.0	0
82	Slab avalanches occurred at Mt. Kamihorokamettoku, Tokachi Mountain Range, in Hokkaido in November 2007. Journal of the Japanese Society of Snow and Ice, 2008, 70, 571-580.	0.0	0
83	The exchange between clathrate phase and gas phase methane on artificial methane hydrate. Journal of the Japanese Association for Petroleum Technology, 2019, 84, 162-165.	0.0	0