Masato Kida

List of Publications by Year
in descending order

65 papers	2,300 citations	236833 25 h-index	223716 46 g-index
69 all docs	69 docs citations	69 times ranked	1098 citing authors

#	Article	IF	Citations
1	Conformation Selectivity and Disharmony of the Lattice Constant Depending on the Guest Size in Clathrate Hydrates. Journal of Physical Chemistry C, 2022, 126, 58-65.	1.5	4
2	Mechanical properties of polycrystalline tetrahydrofuran hydrates as analogs for massive natural gas hydrates. Journal of Natural Gas Science and Engineering, 2021, 96, 104284.	2.1	11
3	Thermodynamic and crystallographic properties depending on hydration numbers in tetra-n-butylammonium chloride semiclathrate hydrates. Journal of Chemical Thermodynamics, 2020, 142, 106004.	1.0	5
4	Natural Gas Hydrates Recovered from the Umitaka Spur in the Joetsu Basin, Japan: Coexistence of Two Structure-I Hydrates with Distinctly Different Textures and Gas Compositions within a Massive Structure. ACS Earth and Space Chemistry, 2020, 4, 77-85.	1.2	14
5	CO2 capture from CH4â€“CO2 mixture by gasâ€“solid contact with tetrahydrofuran clathrate hydrate. Chemical Physics, 2020, 538, 110863.	0.9	10
6	Upwarding gas source and postgenetic processes in the shallow sediments from the ARAON Mounds, Chukchi Sea. Journal of Natural Gas Science and Engineering, 2020, 76, 103223.	2.1	13
7	Permeability variation and anisotropy of gas hydrate-bearing pressure-core sediments recovered from the Krishnaâ€“Godavari Basin, offshore India. Marine and Petroleum Geology, 2019, 108, 524-536.	1.5	113
8	Evaluation of failure modes and undrained shear strength by cone penetrometer for Natural Gas hydrate-bearing pressure-core sediment samples recovered from the Krishnaâ€“Godavari Basin, offshore India. Marine and Petroleum Geology, 2019, 108, 502-511.	1.5	12
9	Lithological properties of natural gas hydrateâ€“bearing sediments in pressure-cores recovered from the Krishnaâ€“Godavari Basin. Marine and Petroleum Geology, 2019, 108, 439-470.	1.5	40
10	Crystal Phase Conditions of Semiclathrate Hydrates in Nitrogenâ€“Tetra-<i>n</i>-butylammonium Bromideâ€“Water Systems below 1 MPa. Journal of Chemical & Engineering Data, 2019, 64, 2843-2848.	1.0	7
11	Structure H Clathrate Hydrates in Methaneâ^'Halogenic Large Molecule Substanceâ€“Water Systems. Journal of Physical Chemistry C, 2019, 123, 17170-17175.	1.5	8
12	Changes in the 13C NMR spectra of tetra-n-butylammonium chloride by clathrate hydration. Chemical Physics, 2019, 522, 233-237.	0.9	7
13	In Situ Mechanical Properties of Shallow Gas Hydrate Deposits in the Deep Seabed. Geophysical Research Letters, 2019, 46, 14459-14468.	1.5	35
14	Numerical analysis of gas production potential from a gas-hydrate reservoir at Site NGHP-02-16, the Krishnaâ€“Godavari Basin, offshore Indiaâ€“Feasibility of depressurization method for ultra-deepwater environment. Marine and Petroleum Geology, 2019, 108, 731-740.	1.5	48
15	Crystallographic and geochemical properties of natural gas hydrates accumulated in the National Gas Hydrate Program Expedition 02 drilling sites in the Krishna-Godavari Basin off India. Marine and Petroleum Geology, 2019, 108, 471-481.	1.5	23
16	Pressure core based onshore laboratory analysis on mechanical properties of hydrate-bearing sediments recovered during India's National Gas Hydrate Program Expedition (NGHP) 02. Marine and Petroleum Geology, 2019, 108, 482-501.	1.5	76
17	Consolidation and hardening behavior of hydrate-bearing pressure-core sediments recovered from the Krishnaâ€“Godavari Basin, offshore India. Marine and Petroleum Geology, 2019, 108, 512-523.	1.5	55
18	Hydration numbers and thermal properties of tetra-n-butyl ammonium bromide semiclathrate hydrates determined by ion chromatography and differential scanning calorimetry. Journal of Chemical Thermodynamics, 2018, 123, 32-37.	1.0	25

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19	Pressure-core-based reservoir characterization for geomechanics: Insights from gas hydrate drilling during 2012â€“2013 at the eastern Nankai Trough. Marine and Petroleum Geology, 2017, 86, 1-16.	1.5	112
20	Clathrate Hydrate Equilibrium in Methaneâ€“Water Systems with the Addition of Monosaccharide and Sugar Alcohol. Journal of Chemical & Engineering Data, 2017, 62, 440-444.	1.0	11
21	Improvement of gas hydrate preservation by increasing compression pressure to simple hydrates of methane, ethane, and propane. Japanese Journal of Applied Physics, 2017, 56, 095601.	0.8	16
22	In Situ Methane Hydrate Morphology Investigation: Natural Gas Hydrate-Bearing Sediment Recovered from the Eastern Nankai Trough Area. Energy & Fuels, 2016, 30, 5547-5554.	2.5	51
23	Thermal and Crystallographic Properties of Tetra-<i>n</i>-butylammonium Bromide + Tetra-<i>n</i>-butylammonium Chloride Mixed Semiclathrate Hydrates. Journal of Chemical & Engineering Data, 2016, 61, 3334-3340.	1.0	24
24	Hydrate Equilibrium Conditions for Water, Diethylene Glycol Monoethyl Ether Acetate, and Methane. Journal of Chemical & Engineering Data, 2016, 61, 3692-3697.	1.0	4
25	Phase Transition of Tetra-<i>n</i>-butylammonium Bromide Hydrates Enclosing Krypton. Journal of Chemical & Engineering Data, 2016, 61, 679-685.	1.0	17
26	Structural properties of methane and butane mixed-gas hydrates. Chemical Engineering Science, 2016, 140, 10-15.	1.9	16
27	Phase Equilibrium for Gas Hydrates Formed from Deuterium Oxide. Journal of Chemical & Engineering Data, 2015, 60, 1939-1944.	1.0	11
28	Contribution of water molecules to methane hydrate dissociation. Japanese Journal of Applied Physics, 2015, 54, 065502.	0.8	5
29	Mechanical properties of hydrate-bearing turbidite reservoir in the first gas production test site of the Eastern Nankai Trough. Marine and Petroleum Geology, 2015, 66, 471-486.	1.5	207
30	Lithological features of hydrate-bearing sediments and their relationship with gas hydrate saturation in the eastern Nankai Trough, Japan. Marine and Petroleum Geology, 2015, 66, 368-378.	1.5	93
31	Dissociation behaviour of (tetra-n-butylammonium bromide + tetra-n-butylammonium chloride) mixed semiclathrate hydrate systems. Journal of Chemical Thermodynamics, 2015, 90, 277-281.	1.0	29
32	Bulk sediment mineralogy of gas hydrate reservoir at the East Nankai offshore production test site. Marine and Petroleum Geology, 2015, 66, 379-387.	1.5	40
33	Chemical and crystallographic characterizations of natural gas hydrates recovered from a production test site in the eastern Nankai Trough. Marine and Petroleum Geology, 2015, 66, 396-403.	1.5	55
34	Permeability of sediment cores from methane hydrate deposit in the Eastern Nankai Trough. Marine and Petroleum Geology, 2015, 66, 487-495.	1.5	173
35	Structural Characterization of Structure H (sH) Clathrate Hydrates Enclosing Nitrogen and 2,2-Dimethylbutane. Journal of Physical Chemistry C, 2015, 119, 9069-9075.	1.5	24
36	Characterization of the ionic clathrate hydrate of tetra-<i>n</i>-butylammonium acrylate. Canadian Journal of Chemistry, 2015, 93, 954-959.	0.6	22

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37	Mechanical behavior of hydrate-bearing pressure-core sediments visualized under triaxial compression. Marine and Petroleum Geology, 2015, 66, 451-459.	1.5	120
38	Effect of methane hydrate morphology on compressional wave velocity of sandy sediments: Analysis of pressure cores obtained in the Eastern Nankai Trough. Marine and Petroleum Geology, 2015, 66, 425-433.	1.5	66
39	Pressurization effects on methane hydrate dissociation. Japanese Journal of Applied Physics, 2014, 53, 018003.	0.8	7
40	Crystal Phase Boundaries of Structure-H (sH) Clathrate Hydrates with Rare Gas (Krypton and Xenon) and Bromide Large Molecule Guest Substances. Journal of Chemical & Engineering Data, 2014, 59, 1704-1709.	1.0	7
41	Structure H (sH) Clathrate Hydrate with New Large Molecule Guest Substances. Journal of Physical Chemistry C, 2013, 117, 23469-23475.	1.5	25
42	Chemical Shift Changes and Line Narrowing in ¹³C NMR Spectra of Hydrocarbon Clathrate Hydrates. Journal of Physical Chemistry A, 2013, 117, 4108-4114.	1.1	14
43	Raman spectroscopic and calorimetric observations on natural gas hydrates with cubic structures I and II obtained from Lake Baikal. Geo-Marine Letters, 2012, 32, 419-426.	0.5	11
44	Thermal anomalies associated with shallow gas hydrates in the K-2 mud volcano, Lake Baikal. Geo-Marine Letters, 2012, 32, 407-417.	0.5	20
45	Microscopic Equilibrium Determination for Structure-H (sH) Clathrate Hydrates at the Liquidâ€“Liquid Interface: Kryptonâ€“Liquid Hydrocarbonâ€“Water System. Journal of Chemical & Engineering Data, 2012, 57, 2614-2618.	1.0	10
46	Phase Equilibrium Conditions for Clathrate Hydrates of Tetra-<i>n</i>-butylammonium Bromide (TBAB) and Xenon. Journal of Chemical & Engineering Data, 2012, 57, 1829-1833.	1.0	24
47	13C Chemical Shifts of Propane Molecules Encaged in Structure II Clathrate Hydrate. Journal of Physical Chemistry A, 2011, 115, 643-647.	1.1	16
48	Effective control of gas hydrate dissociation above the melting point of ice. Physical Chemistry Chemical Physics, 2011, 13, 18481.	1.3	11
49	Dissociation Termination of Methaneâ€“Ethane Hydrates in Temperatureâ€Ramping Tests at Atmospheric Pressure below the Melting Point of Ice. ChemPhysChem, 2011, 12, 1652-1656.	1.0	24
50	Isotopic composition of dissolved inorganic carbon in subsurface sediments of gas hydrate-bearing mud volcanoes, Lake Baikal: implications for methane and carbonate origin. Geo-Marine Letters, 2010, 30, 427-437.	0.5	17
51	Molecular and isotopic characteristics of gas hydrate-bound hydrocarbons in southern and central Lake Baikal. Geo-Marine Letters, 2010, 30, 321-329.	0.5	28
52	Symmetric Stretching Vibration of CH₄ in Clathrate Hydrate Structures. ChemPhysChem, 2010, 11, 3070-3073.	1.0	40
53	Dissociation Behavior of Methaneâˆ’Ethane Mixed Gas Hydrate Coexisting Structures I and II. Journal of Physical Chemistry A, 2010, 114, 9456-9461.	1.1	17
54	Characteristics of Natural Gas Hydrates Occurring in Pore-Spaces of Marine Sediments Collected from the Eastern Nankai Trough, off Japan. Energy & Fuels, 2009, 23, 5580-5586.	2.5	55

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55	Natural gas hydrates with locally different cage occupancies and hydration numbers in Lake Baikal. Geochemistry, Geophysics, Geosystems, 2009, 10, .	1.0	31
56	Model of formation of double structure gas hydrates in Lake Baikal based on isotopic data. Geophysical Research Letters, 2009, 36, .	1.5	27
57	Geochemistry of Pore Waters from Gas Hydrate-bearing Sediment Cores Retrieved at the Sea of Okhotsk. Journal of Geography (Chigaku Zasshi), 2009, 118, 194-206.	0.1	7
58	Crystallization of authigenic carbonates in mud volcanoes at Lake Baikal. Geochemistry International, 2008, 46, 985-995.	0.2	15
59	First discovery and formation process of authigenic siderite from gas hydrateâ€“bearing mud volcanoes in fresh water: Lake Baikal, eastern Siberia. Geophysical Research Letters, 2008, 35, .	1.5	25
60	Isotopic fractionation of methane and ethane hydrates between gas and hydrate phases. Geophysical Research Letters, 2007, 34, .	1.5	30
61	Estimation of Gas Composition and Cage Occupancies in CH₄-C₂H₆ Hydrates by CP-MAS ¹³C NMR Technique. Journal of the Japan Petroleum Institute, 2007, 50, 132-138.	0.4	24
62	Coexistence of structure I and II gas hydrates in Lake Baikal suggesting gas sources from microbial and thermogenic origin. Geophysical Research Letters, 2006, 33, .	1.5	84
63	Structure and thermal expansion of natural gas clathrate hydrates. Chemical Engineering Science, 2006, 61, 2670-2674.	1.9	85
64	Lattice Expansion of Clathrate Hydrates of Methane Mixtures and Natural Gas. Angewandte Chemie - International Edition, 2005, 44, 6928-6931.	7.2	36
65	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