Yusuke Jin

List of Publications by Year in descending order

71 papers	2,589 citations	186265 28 h-index	197818 49 g-index
72 all docs	72 docs citations	72 times ranked	1168 citing authors

#	Article	IF	Citations
1	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.	3.3	207
2	Permeability of sediment cores from methane hydrate deposit in the Eastern Nankai Trough. Marine and Petroleum Geology, 2015, 66, 487-495.	3.3	173
3	Experimental evaluation of the gas recovery factor of methane hydrate in sandy sediment. RSC Advances, 2014, 4, 51666-51675.	3.6	148
4	Mechanical behavior of hydrate-bearing pressure-core sediments visualized under triaxial compression. Marine and Petroleum Geology, 2015, 66, 451-459.	3.3	120
5	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.	3.3	113
6	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.	3.3	112
7	Strengthening mechanism of cemented hydrateâ€bearing sand at microscales. Geophysical Research Letters, 2016, 43, 7442-7450.	4.0	109
8	Hydraulic fracturing in methane-hydrate-bearing sand. RSC Advances, 2016, 6, 73148-73155.	3.6	99
9	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.	3.3	93
10	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.	3.3	76
11	Growth of Methane Clathrate Hydrates in Porous Media. Energy & Fuels, 2012, 26, 2242-2247.	5.1	71
12	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.	3.3	66
13	Dissociation Behavior of Methane Hydrate in Sandy Porous Media below the Quadruple Point. Energy & Fuels, 2012, 26, 4310-4320.	5.1	63
14	Structural Investigation of Methane Hydrate Sediments by Microfocus X-ray Computed Tomography Technique under High-Pressure Conditions. Japanese Journal of Applied Physics, 2006, 45, L714-L716.	1.5	58
15	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.	3.3	55
16	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.	3.3	55
17	In Situ Methane Hydrate Morphology Investigation: Natural Gas Hydrate-Bearing Sediment Recovered from the Eastern Nankai Trough Area. Energy & Fuels, 2016, 30, 5547-5554.	5.1	51
18	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.	3.3	48

#	Article	IF	Citations
19	Near-infrared spectroscopic study of water at high temperatures and pressures. Journal of Chemical Physics, 2003, 119, 12432-12438.	3.0	42
20	Bulk sediment mineralogy of gas hydrate reservoir at the East Nankai offshore production test site. Marine and Petroleum Geology, 2015, 66, 379-387.	3.3	40
21	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.	3.3	40
22	Multiple-pressure-tapped core holder combined with X-ray computed tomography scanning for gasâ€“water permeability measurements of methane-hydrate-bearing sediments. Review of Scientific Instruments, 2013, 84, 064501.	1.3	38
23	In Situ Mechanical Properties of Shallow Gas Hydrate Deposits in the Deep Seabed. Geophysical Research Letters, 2019, 46, 14459-14468.	4.0	35
24	Observation of Xe Hydrate Growth at Gasâˆ’Ice Interface by Microfocus X-ray Computed Tomography. Journal of Physical Chemistry C, 2008, 112, 17253-17256.	3.1	33
25	Multiple physical properties of gas hydrate-bearing sediments recovered from Alaska North Slope 2018 Hydrate-01 Stratigraphic Test Well. Marine and Petroleum Geology, 2021, 123, 104748.	3.3	33
26	New Method of Assessing Absolute Permeability of Natural Methane Hydrate Sediments by Microfocus X-ray Computed Tomography. Japanese Journal of Applied Physics, 2007, 46, 3159-3162.	1.5	32
27	Pressurized subsampling system for pressured gas-hydrate-bearing sediment: Microscale imaging using X-ray computed tomography. Review of Scientific Instruments, 2014, 85, 094502.	1.3	31
28	Change in the Stable Crystal Phase of Tetra-n-butylammonium Bromide (TBAB) Hydrates Enclosing Xenon. Journal of Physical Chemistry C, 2013, 117, 6924-6928.	3.1	30
29	Dissociation behaviour of (tetra-n-butylammonium bromide + tetra-n-butylammonium chloride) mixed semiclathrate hydrate systems. Journal of Chemical Thermodynamics, 2015, 90, 277-281.	2.0	29
30	Structure H (sH) Clathrate Hydrate with New Large Molecule Guest Substances. Journal of Physical Chemistry C, 2013, 117, 23469-23475.	3.1	25
31	Phase Equilibrium Conditions for Krypton Clathrate Hydrate below the Freezing Point of Water. Journal of Chemical & Engineering Data, 2011, 56, 58-61.	1.9	24
32	Phase Equilibrium Conditions for Clathrate Hydrates of Tetra-n-butylammonium Bromide (TBAB) and Xenon. Journal of Chemical & Engineering Data, 2012, 57, 1829-1833.	1.9	24
33	Structural Characterization of Structure H (sH) Clathrate Hydrates Enclosing Nitrogen and 2,2-Dimethylbutane. Journal of Physical Chemistry C, 2015, 119, 9069-9075.	3.1	24
34	A Pore-Scale Numerical Simulation Method for Estimating the Permeability of Sand Sediment. Transport in Porous Media, 2012, 94, 1-17.	2.6	23
35	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.	3.3	23
36	Rapid and Localized Synthesis of Single-Walled Carbon Nanotubes on Flat Surface by Laser-Assisted Chemical Vapor Deposition. Japanese Journal of Applied Physics, 2007, 46, L333-L335.	1.5	17

#	Article	IF	Citations
37	Dissociation Behavior of Methaneâ^'Ethane Mixed Gas Hydrate Coexisting Structures I and II. Journal of Physical Chemistry A, 2010, 114, 9456-9461.	2.5	17
38	Phase Transition of Tetra-n-butylammonium Bromide Hydrates Enclosing Krypton. Journal of Chemical & Engineering Data, 2016, 61, 679-685.	1.9	17
39	On the water dimer contribution to the OH stretching absorption band profile in pressurized water vapour. Molecular Physics, 2008, 106, 1155-1159.	1.7	16
40	Structural properties of methane and butane mixed-gas hydrates. Chemical Engineering Science, 2016, 140, 10-15.	3.8	16
41	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.	1.5	16
42	Competitive formation of 10- and 7-membered hydrogen-bonded rings of proline-containing model peptides. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2002, 58, 2795-2802.	3.9	15
43	Density evolution of absorption bandshapes in the water vapor OH-stretching fundamental and overtone: evidence for molecular aggregation. Journal of Molecular Structure, 2005, 742, 173-181.	3.6	14
44	Infrared Spectroscopy of Gas Hydrate Dissociation Behavior During Depressurization. Japanese Journal of Applied Physics, 2009, 48, 108001.	1.5	14
45	Morphological Change in Structure H Clathrates of Methane and Liquid Hydrocarbon at the Liquidâ€"Liquid Interface. Crystal Growth and Design, 2011, 11, 3149-3152.	3.0	14
46	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.	2.7	14
47	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.	3.3	12
48	Effective control of gas hydrate dissociation above the melting point of ice. Physical Chemistry Chemical Physics, 2011, 13, 18481.	2.8	11
49	Phase Equilibrium for Gas Hydrates Formed from Deuterium Oxide. Journal of Chemical & Engineering Data, 2015, 60, 1939-1944.	1.9	11
50	Clathrate Hydrate Equilibrium in Methaneâ€"Water Systems with the Addition of Monosaccharide and Sugar Alcohol. Journal of Chemical & Engineering Data, 2017, 62, 440-444.	1.9	11
51	Mechanical properties of polycrystalline tetrahydrofuran hydrates as analogs for massive natural gas hydrates. Journal of Natural Gas Science and Engineering, 2021, 96, 104284.	4.4	11
52	Permeability Measurement and Prediction with Nuclear Magnetic Resonance Analysis of Gas Hydrate-Bearing Sediments Recovered from Alaska North Slope 2018 Hydrate-01 Stratigraphic Test Well. Energy & Fuels, 2022, 36, 2515-2529.	5.1	11
53	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.	1.9	10
54	Comprehensive pressure core analysis for hydrate-bearing sediments from Gulf of Mexico Green Canyon Block 955, including assessments of geomechanical viscous behavior and nuclear magnetic resonance permeability. AAPG Bulletin, 2022, 106, 1143-1177.	1.5	10

#	Article	IF	Citations
55	Spectroscopic study of mutual solubilities of water and benzene at high temperatures and pressures. Journal of Chemical Physics, 2005, 122, 024509.	3.0	9
56	Near infrared study of water-benzene mixtures at high temperatures and pressures. Journal of Chemical Physics, 2004, 121, 2694.	3.0	8
57	Structure H Clathrate Hydrates in Methaneâ^'Halogenic Large Molecule Substanceâ€"Water Systems. Journal of Physical Chemistry C, 2019, 123, 17170-17175.	3.1	8
58	Film-growth rates of methane hydrate on ice surfaces. Journal of Crystal Growth, 2020, 537, 125595.	1.5	8
59	Pressurization effects on methane hydrate dissociation. Japanese Journal of Applied Physics, 2014, 53, 018003.	1.5	7
60	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.	1.9	7
61	Crystal Phase Conditions of Semiclathrate Hydrates in Nitrogenâ€"Tetra-n-butylammonium Bromideâ€"Water Systems below 1 MPa. Journal of Chemical & Engineering Data, 2019, 64, 2843-2848.	1.9	7
62	Changes in the 13C NMR spectra of tetra-n-butylammonium chloride by clathrate hydration. Chemical Physics, 2019, 522, 233-237.	1.9	7
63	Contribution of water molecules to methane hydrate dissociation. Japanese Journal of Applied Physics, 2015, 54, 065502.	1.5	5
64	Thermodynamic and crystallographic properties depending on hydration numbers in tetra-n-butylammonium chloride semiclathrate hydrates. Journal of Chemical Thermodynamics, 2020, 142, 106004.	2.0	5
65	Thermal properties of tetragonal tetra-n-butyl ammonium bromideâ€‰+â€‰tetra-n-butyl ammonium chloride mixed semiclathrate hydrates based on hydration numbers and guest mole fraction rates. Journal of Applied Physics, 2020, 128, .	2.5	5
66	Hydrate Equilibrium Conditions for Water, Diethylene Glycol Monoethyl Ether Acetate, and Methane. Journal of Chemical & Engineering Data, 2016, 61, 3692-3697.	1.9	4
67	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.	3.1	4
68	Characterization of permeability and thermal conductivity of methane hydrate sediments using microfocous X-ray computed tomography technique. Journal of the Japanese Association for Petroleum Technology, 2009, 74, 290-296.	0.0	3
69	Spectroscopic study of water-NaCl-benzene mixtures at high temperatures and pressures. Journal of Chemical Physics, 2005, 123, 214504.	3.0	1
70	Pyrazine Analogues on Clathrate Hydrates in Methaneâ€"Water Systems. Journal of Chemical & Engineering Data, 2020, 65, 4150-4156.	1.9	1
71	Local Synthesis of Single-walled Carbon Nanotubes on Zeolite-covered Silicon Substrate by Laser-heating Chemical Vapor Depositon. , 2007, , .		0