

Yun-Ho Ahn

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89
papers

3,426
citations

28
h-index

57
g-index

89
ext. papers

3,713
ext. citations

4.2
avg. IF

5.09
L-index

#	Paper	IF	Citations
89	Tuning clathrate hydrates for hydrogen storage. <i>Nature</i> , 2005 , 434, 743-6	50.4	651
88	Recovery of CO ₂ from Flue Gas Using Gas Hydrate: Thermodynamic Verification through Phase Equilibrium Measurements. <i>Environmental Science & Technology</i> , 2000 , 34, 4397-4400	10.3	477
87	Recovering methane from solid methane hydrate with carbon dioxide. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5048-51	16.4	292
86	Facile one-pot synthesis of gold nanoparticles using alcohol ionic liquids. <i>Journal of Materials Chemistry</i> , 2006 , 16, 1315		124
85	Methane and Carbon Dioxide Hydrate Phase Behavior in Small Porous Silica Gels: Three-Phase Equilibrium Determination and Thermodynamic Modeling. <i>Langmuir</i> , 2002 , 18, 9164-9170	4	114
84	Physical and electrochemical properties of 1-butyl-3-methylimidazolium bromide, 1-butyl-3-methylimidazolium iodide, and 1-butyl-3-methylimidazolium tetrafluoroborate. <i>Korean Journal of Chemical Engineering</i> , 2004 , 21, 1010-1014	2.8	106
83	Multiple-Phase Hydrate Equilibria of the Ternary Carbon Dioxide, Methane, and Water Mixtures. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10084-10090	3.4	95
82	Structure and Guest Distribution of the Mixed Carbon Dioxide and Nitrogen Hydrates As Revealed by X-ray Diffraction and ¹³ C NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 530-534	3.4	71
81	Hydrate phase equilibria for gas mixtures containing carbon dioxide: A proof-of-concept to carbon dioxide recovery from multicomponent gas stream. <i>Korean Journal of Chemical Engineering</i> , 2000 , 17, 659-667	2.8	69
80	Intercalation of Gas Molecules in Graphene Oxide Interlayer: The Role of Water. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11142-11148	3.8	68
79	Swapping Phenomena Occurring in Deep-Sea Gas Hydrates. <i>Energy & Fuels</i> , 2008 , 22, 3160-3163	4.1	61
78	¹³ C NMR analysis and gas uptake measurements of pure and mixed gas hydrates: Development of natural gas transport and storage method using gas hydrate. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 1085-1091	2.8	54
77	Fabrication of silver nanoparticles via self-regulated reduction by 1-(2-hydroxyethyl)-3-methylimidazolium tetrafluoroborate. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 856-859	2.8	40
76	Phase equilibria and kinetic behavior of CO ₂ hydrate in electrolyte and porous media solutions: application to ocean sequestration of CO ₂ . <i>Korean Journal of Chemical Engineering</i> , 2002 , 19, 673-678	2.8	39
75	Kinetics of formation of carbon dioxide clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 620-626	2.8	39
74	Structural, Mineralogical, and Rheological Properties of Methane Hydrates in Smectite Clays. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 1284-1291	2.8	38
73	Generalized model for predicting phase behavior of clathrate hydrate. <i>AIChE Journal</i> , 2002 , 48, 1317-1330	3.6	38

72	Nondestructive natural gas hydrate recovery driven by air and carbon dioxide. <i>Scientific Reports</i> , 2014 , 4, 6616	4.9	37
71	Spectroscopic observation of critical guest concentration appearing in tert-butyl alcohol clathrate hydrate. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 8443-6	3.4	37
70	Size-controlled electrochemical synthesis of palladium nanoparticles using morpholinium ionic liquid. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 1089-1094	2.8	37
69	Effect of Hydrate Shell Formation on the Stability of Dry Water. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1690-1699	3.8	36
68	Spectroscopic identification of amyl alcohol hydrates through free OH observation. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 10562-5	3.4	36
67	Solubilities and Vapor Pressures of the Water + Lithium Bromide + Ethanolamine System. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 279-281	2.8	36
66	Occurrence of near-seafloor gas hydrates and associated cold vents in the Ulleung Basin, East Sea. <i>Geosciences Journal</i> , 2009 , 13, 371-385	1.4	35
65	Surface tension and viscosity of 1-butyl-3-methylimidazolium iodide and 1-butyl-3-methylimidazolium tetrafluoroborate, and solubility of lithium bromide+1-butyl-3-methylimidazolium bromide in water. <i>Korean Journal of Chemical Engineering</i> , 2008 , 23, 113-116	2.8	35
64	Natural gas hydrate as a potential energy resource: From occurrence to production. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 771-786	2.8	32
63	Hydration number and two-phase equilibria of CH ₄ hydrate in the deep ocean sediments. <i>Geophysical Research Letters</i> , 2002 , 29, 85-1-85-4	4.9	31
62	Clathrate Phase Equilibria for the Water + Deuterium Oxide + Carbon Dioxide and Water + Deuterium Oxide + Chlorodifluoromethane (R22) Systems. <i>Journal of Chemical & Engineering Data</i> , 1996 , 41, 1114-1116	2.8	30
61	Clathrate phase equilibria for the water-phenol-carbon dioxide system. <i>AIChE Journal</i> , 1997 , 43, 1884-1893	3.6	28
60	Experimental verifications of Mpemba-like behaviors of clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1903-1907	2.8	28
59	Abnormal methane occupancy of natural gas hydrates in deep sea floor sediments. <i>Energy and Environmental Science</i> , 2011 , 4, 421-424	35.4	26
58	Spectroscopic evidences of the double hydrogen hydrates stabilized with ethane and propane. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 624-627	2.8	24
57	Thermal stability and ionic conductivity of the ionic clathrate hydrates incorporated with potassium hydroxide. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6542		23
56	Phase behavior of gas hydrates in nanoporous materials: Review. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1977-1988	2.8	23
55	Solubilities, Vapor Pressures, Densities, and Viscosities of the LiBr + LiI + HO(CH ₂) ₃ OH + H ₂ O System. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 79-83	2.8	22

54	Isolation of vindoline from <i>Catharanthus roseus</i> by supercritical fluid extraction. <i>Biotechnology Progress</i> , 1992 , 8, 583-6	2.8	22
53	Heat Capacities of the Water + Lithium Bromide + Ethanolamine and Water + Lithium Bromide + 1,3-Propanediol Systems. <i>Journal of Chemical & Engineering Data</i> , 1997 , 42, 371-373	2.8	21
52	Spectroscopic Observation of the Hydroxy Position in Butanol Hydrates and Its Effect on Hydrate Stability. <i>ChemPhysChem</i> , 2015 , 16, 2876-2881	3.2	20
51	Compositional and structural identification of natural gas hydrates collected at site 1249 on ocean drilling program leg 204. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 569-572	2.8	20
50	CO ₂ hydrate behavior in the deep ocean sediments; phase equilibrium, formation kinetics, and solubility. <i>Geophysical Research Letters</i> , 2002 , 29, 30-1	4.9	20
49	Phase Equilibria of R22 (CHClF ₂) Hydrate Systems in the Presence of NaCl, KCl, and MgCl ₂ . <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 1150-1153	2.8	20
48	Effect of Hydrophobic Silica Nanoparticles on the Kinetics of Methane Hydrate Formation in Water-in-Oil Emulsions. <i>Energy & Fuels</i> , 2019 , 33, 523-530	4.1	20
47	Phase behavior and structure transition of the mixed methane and nitrogen hydrates. <i>Korean Journal of Chemical Engineering</i> , 2006 , 23, 299-302	2.8	18
46	Vapor-liquid equilibria for the binary monoethanolamine+ water and monoethanolamine+ethanol systems. <i>Korean Journal of Chemical Engineering</i> , 1997 , 14, 146-148	2.8	17
45	One-phase preparation of palladium nanoparticles using thiol-functionalized ionic liquid. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 717-720	2.8	16
44	Phase Equilibria of Carbon Dioxide Hydrate System in the Presence of Sucrose, Glucose, and Fructose. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 1081-1084	2.8	16
43	Effect of Guest-Host Hydrogen Bonding on Thermodynamic Stability of Clathrate Hydrates: Diazine Isomers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10218-10226	3.8	12
42	Effect of Molecular Nitrogen on Multiple Hydrogen Occupancy in Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20203-20208	3.8	12
41	Thermodynamic and Spectroscopic Identification of Methane Inclusion in the Binary Heterocyclic Compound Hydrates. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23515-23521	3.8	12
40	Structure identification of binary 1-propanol+methane hydrate using neutron powder diffraction. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 2514-2518	2.8	11
39	Synthesis and ionic conductivities of lithium-doped morpholinium salts. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 281-284	2.8	11
38	Thermal and electrochemical properties of morpholinium salts with bromide anion. <i>Korean Journal of Chemical Engineering</i> , 2005 , 22, 945-948	2.8	11
37	Electrical Resistivity Measurements of Methane Hydrate during N ₂ /CO ₂ Gas Exchange. <i>Energy & Fuels</i> , 2017 , 31, 708-713	4.1	10

36	Gas hydrate inhibition by 3-hydroxytetrahydrofuran: Spectroscopic identifications and hydrate phase equilibria. <i>Fluid Phase Equilibria</i> , 2016 , 413, 65-70	2.5	10
35	Inclusion of thiophene as a co-guest in a structure II hydrate with methane gas. <i>RSC Advances</i> , 2014 , 4, 26176	3.7	10
34	Tuning clathrate hydrates for hydrogen storage 2010 , 285-288		10
33	Poly(vinylidene fluoride)-hexafluoropropylene gel electrolytes based on N-(2-hydroxyethyl)-N-methyl morpholinium ionic liquids. <i>Korean Journal of Chemical Engineering</i> , 2006 , 23, 940-947	2.8	10
32	Size-selective Pd nanoparticles stabilized by dialkylmorpholinium ionic liquids. <i>Korean Journal of Chemical Engineering</i> , 2009 , 26, 760-764	2.8	9
31	Gauche conformation of acyclic guest molecules appearing in the large cages of structure-H clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 2007 , 24, 843-846	2.8	9
30	Phase and kinetic behavior of the mixed methane and carbon dioxide hydrates. <i>Korean Journal of Chemical Engineering</i> , 2006 , 23, 283-287	2.8	9
29	Replacement of Methane Hydrate by Carbon Dioxide: 13C NMR Study for Studying a Limit to the Degree of Substitution. <i>Studies in Surface Science and Catalysis</i> , 2004 , 153, 495-500	1.8	9
28	Spectroscopic and thermodynamic investigations of clathrate hydrates of methacrolein. <i>RSC Advances</i> , 2017 , 7, 12359-12365	3.7	8
27	Heat capacity measurement and cycle simulation of the trifluoroethanol (TFE) +quinoline mixture as a new organic working fluid used in absorption heat pump. <i>Korean Journal of Chemical Engineering</i> , 2003 , 20, 762-767	2.8	8
26	Effect of Naphthenate Formation on the Anti-Adhesive Behavior of Clathrate Hydrates at a Water/Oil Interface. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5064-5070	3.9	8
25	Thermodynamic Stability of Structure II Methyl Vinyl Ketone Binary Clathrate Hydrates and Effects of Secondary Guest Molecules on Large Guest Conformation. <i>ACS Omega</i> , 2017 , 2, 1601-1607	3.9	7
24	Hydrophilic pore-blocked metal-organic frameworks: a simple route to a highly selective CH ₄ /N ₂ separation. <i>RSC Advances</i> , 2015 , 5, 2749-2755	3.7	7
23	Abnormal Proton Positioning of Water Framework in the Presence of Paramagnetic Guest within Ion-Doped Clathrate Hydrate Host. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15193-15199	3.8	7
22	Phase Equilibria and Spectroscopic Identification of (2-Methylpropane-2-peroxol + Gaseous Guests) Hydrates. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1128-1133	2.8	7
21	Equilibrium and crystallographic measurements of the binary tetrahydrofuran and helium clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 154-157	2.8	7
20	Metastability of Ethane Clathrate Hydrate Induced by [Co(NH ₃) ₆] ³⁺ Complex. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2558-2562	3.8	6
19	Differential Enthalpies of Dilution of the Lithium Bromide + 1,3-Propanediol + Water and Lithium Bromide + Lithium Iodide + Lithium Chloride + Lithium Nitrate + Water Systems. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 397-399	2.8	6

18	Destruction of CFC113 in supercritical and subcritical water. <i>Korean Journal of Chemical Engineering</i> , 1996 , 13, 640-641	2.8	6
17	Hydrate seeding effect on the metastability of CH ₄ hydrate. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 341-349	2.8	5
16	One-dimensional approaches for methane hydrate production by CO ₂ /N ₂ gas mixture in horizontal and vertical column reactor. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1712-1719	2.8	5
15	Effects of Large Guest Molecular Structure on Thermal Expansion Behaviors in Binary (C ₄ H ₈ O + CH ₄) Clathrate Hydrates. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 20705-20714	3.8	5
14	Guest molecule dynamics and guest-specific degassing phenomenon of binary gas hydrate investigated by terahertz time-domain spectroscopy. <i>RSC Advances</i> , 2013 , 3, 8857	3.7	5
13	Temperature- and Pressure-induced Structural Transition of Binary Clathrate Hydrates. <i>ChemPhysChem</i> , 2019 , 20, 429-435	3.2	5
12	In situ Raman and ¹³ C NMR spectroscopic analysis of gas hydrates formed in confined water: application to natural gas capture. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 1035-1042	0.9	4
11	Spectroscopy Identification and Thermodynamic Stability of tert-Butyl Nitrite and Methane Clathrate Hydrate. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5906-5909	2.8	4
10	Spectroscopic observation of H ₂ migration in structure-I clathrate hydrate. <i>Korean Journal of Chemical Engineering</i> , 2008 , 25, 1397-1400	2.8	4
9	Thermal expansivity of γ -irradiated clathrate hydrate with intracavity conformational change. <i>Chemical Physics Letters</i> , 2018 , 706, 14-18	2.5	3
8	Experimental verification of anomalous chloride enrichment related to methane hydrate formation in deep-sea sediments. <i>AIChE Journal</i> , 2012 , 58, 322-328	3.6	3
7	Reactive radical cation transfer in the cages of icy clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 2015 , 32, 350-353	2.8	3
6	Thermodynamic and spectroscopic identification of aldehyde hydrates. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1897-1902	2.8	3
5	Structural identification of DCLO ₄ clathrate hydrates: Neutron powder diffraction analysis. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1728-1735	2.8	2
4	Correlation of the vapor-liquid equilibria of CFC, HCFC and fc mixtures: Critical evaluation of mixing rules. <i>Korean Journal of Chemical Engineering</i> , 1995 , 12, 535-539	2.8	1
3	Tuning magnetism via selective injection into ice-like clathrate hydrates. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 1706-1711	2.8	0
2	The Inclusion of Hydrogen in Clathrate Hydrates of the Various Guests and Tuning of the tert-Butylamine Hydrate. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 927, 1		
1	Generalized thermodynamic behavior for the gaseous and liquid states I. Thermal conductivity. <i>Korean Journal of Chemical Engineering</i> , 1990 , 7, 219-225	2.8	

