Yun-Ho Ahn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Hydrate seeding effect on the metastability of CH4 hydrate. *Korean Journal of Chemical Engineering*, **2020**, 37, 341-349	2.8	5
88	Effects of Large Guest Molecular Structure on Thermal Expansion Behaviors in Binary (C4H8O + CH4) Clathrate Hydrates. *Journal of Physical Chemistry C*, **2019**, 123, 20705-20714	3.8	5
87	Effect of Naphthenate Formation on the Anti-Adhesive Behavior of Clathrate Hydrates at a Water□Oil Interface. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5064-5070	3.9	8
86	Temperature- and Pressure-induced Structural Transition of Binary Clathrate Hydrates. *ChemPhysChem*, **2019**, 20, 429-435	3.2	5
85	Effect of Hydrophobic Silica Nanoparticles on the Kinetics of Methane Hydrate Formation in Water-in-Oil Emulsions. *Energy & Fuels*, **2019**, 33, 523-530	4.1	20
84	Thermal expansivity of □rradiated clathrate hydrate with intracavity conformational change. *Chemical Physics Letters*, **2018**, 706, 14-18	2.5	3
83	Thermodynamic Stability of Structure II Methyl Vinyl Ketone Binary Clathrate Hydrates and Effects of Secondary Guest Molecules on Large Guest Conformation. *ACS Omega*, **2017**, 2, 1601-1607	3.9	7
82	Electrical Resistivity Measurements of Methane Hydrate during N2/CO2 Gas Exchange. *Energy & Fuels*, **2017**, 31, 708-713	4.1	10
81	Spectroscopic and thermodynamic investigations of clathrate hydrates of methacrolein. *RSC Advances*, **2017**, 7, 12359-12365	3.7	8
80	Structure identification of binary 1-propanol+methane hydrate using neutron powder diffraction. *Korean Journal of Chemical Engineering*, **2017**, 34, 2514-2518	2.8	11
79	Tuning magnetism via selective injection into ice-like clathrate hydrates. *Korean Journal of Chemical Engineering*, **2016**, 33, 1706-1711	2.8	0
78	Structural identification of DClO4 clathrate hydrates: Neutron powder diffraction analysis. *Korean Journal of Chemical Engineering*, **2016**, 33, 1728-1735	2.8	2
77	One-dimensional approaches for methane hydrate production by CO2/N2 gas mixture in horizontal and vertical column reactor. *Korean Journal of Chemical Engineering*, **2016**, 33, 1712-1719	2.8	5
76	Gas hydrate inhibition by 3-hydroxytetrahydrofuran: Spectroscopic identifications and hydrate phase equilibria. *Fluid Phase Equilibria*, **2016**, 413, 65-70	2.5	10
75	Phase behavior of gas hydrates in nanoporous materials: Review. *Korean Journal of Chemical Engineering*, **2016**, 33, 1977-1988	2.8	23
74	Thermodynamic and spectroscopic identification of aldehyde hydrates. *Korean Journal of Chemical Engineering*, **2016**, 33, 1897-1902	2.8	3
73	Experimental verifications of Mpemba-like behaviors of clathrate hydrates. *Korean Journal of Chemical Engineering*, **2016**, 33, 1903-1907	2.8	28

72	Effect of Guest–Host Hydrogen Bonding on Thermodynamic Stability of Clathrate Hydrates: Diazine Isomers. *Journal of Physical Chemistry C*, **2015**, 119, 10218-10226	3.8	12
71	In situ Raman and 13C NMR spectroscopic analysis of gas hydrates formed in confined water: application to natural gas capture. *Canadian Journal of Chemistry*, **2015**, 93, 1035-1042	0.9	4
70	Hydrophilic pore-blocked metal–organic frameworks: a simple route to a highly selective CH4/N2 separation. *RSC Advances*, **2015**, 5, 2749-2755	3.7	7
69	Spectroscopic Observation of the Hydroxy Position in Butanol Hydrates and Its Effect on Hydrate Stability. *ChemPhysChem*, **2015**, 16, 2876-2881	3.2	20
68	Reactive radical cation transfer in the cages of icy clathrate hydrates. *Korean Journal of Chemical Engineering*, **2015**, 32, 350-353	2.8	3
67	Effect of Hydrate Shell Formation on the Stability of Dry Water. *Journal of Physical Chemistry C*, **2015**, 119, 1690-1699	3.8	36
66	Nondestructive natural gas hydrate recovery driven by air and carbon dioxide. *Scientific Reports*, **2014**, 4, 6616	4.9	37
65	Intercalation of Gas Molecules in Graphene Oxide Interlayer: The Role of Water. *Journal of Physical Chemistry C*, **2014**, 118, 11142-11148	3.8	68
64	Inclusion of thiophene as a co-guest in a structure II hydrate with methane gas. *RSC Advances*, **2014**, 4, 26176	3.7	10
63	Effect of Molecular Nitrogen on Multiple Hydrogen Occupancy in Clathrate Hydrates. *Journal of Physical Chemistry C*, **2014**, 118, 20203-20208	3.8	12
62	Abnormal Proton Positioning of Water Framework in the Presence of Paramagnetic Guest within Ion-Doped Clathrate Hydrate Host. *Journal of Physical Chemistry C*, **2014**, 118, 15193-15199	3.8	7
61	Natural gas hydrate as a potential energy resource: From occurrence to production. *Korean Journal of Chemical Engineering*, **2013**, 30, 771-786	2.8	32
60	Guest molecule dynamics and guest-specific degassing phenomenon of binary gas hydrate investigated by terahertz time-domain spectroscopy. *RSC Advances*, **2013**, 3, 8857	3.7	5
59	Thermodynamic and Spectroscopic Identification of Methane Inclusion in the Binary Heterocyclic Compound Hydrates. *Journal of Physical Chemistry C*, **2013**, 117, 23515-23521	3.8	12
58	Experimental verification of anomalous chloride enrichment related to methane hydrate formation in deep-sea sediments. *AICHE Journal*, **2012**, 58, 322-328	3.6	3
57	Phase Equilibria and Spectroscopic Identification of (2-Methylpropane-2-peroxol + Gaseous Guests) Hydrates. *Journal of Chemical & Engineering Data*, **2012**, 57, 1128-1133	2.8	7
56	Abnormal methane occupancy of natural gas hydrates in deep sea floor sediments. *Energy and Environmental Science*, **2011**, 4, 421-424	35.4	26
55	Metastability of Ethane Clathrate Hydrate Induced by [Co(NH3)6]3+ Complex. *Journal of Physical Chemistry C*, **2011**, 115, 2558-2562	3.8	6

54	Spectroscopy Identification and Thermodynamic Stability of tert-Butyl Nitrite and Methane Clathrate Hydrate. *Journal of Chemical & Engineering Data*, **2010**, 55, 5906-5909	2.8	4
53	Tuning clathrate hydrates for hydrogen storage **2010**, 285-288		10
52	Size-selective Pd nanoparticles stabilized by dialkylmorpholinium ionic liquids. *Korean Journal of Chemical Engineering*, **2009**, 26, 760-764	2.8	9
51	Occurrence of near-seafloor gas hydrates and associated cold vents in the Ulleung Basin, East Sea. *Geosciences Journal*, **2009**, 13, 371-385	1.4	35
50	Structural, Mineralogical, and Rheological Properties of Methane Hydrates in Smectite Clays. *Journal of Chemical & Engineering Data*, **2009**, 54, 1284-1291	2.8	38
49	Spectroscopic identification of amyl alcohol hydrates through free OH observation. *Journal of Physical Chemistry B*, **2009**, 113, 10562-5	3.4	36
48	Thermal stability and ionic conductivity of the ionic clathrate hydrates incorporated with potassium hydroxide. *Journal of Materials Chemistry*, **2009**, 19, 6542		23
47	Swapping Phenomena Occurring in Deep-Sea Gas Hydrates. *Energy & Fuels*, **2008**, 22, 3160-3163	4.1	61
46	Spectroscopic observation of critical guest concentration appearing in tert-butyl alcohol clathrate hydrate. *Journal of Physical Chemistry B*, **2008**, 112, 8443-6	3.4	37
45	Spectroscopic observation of H2 migration in structure-I clathrate hydrate. *Korean Journal of Chemical Engineering*, **2008**, 25, 1397-1400	2.8	4
44	Equilibrium and crystallographic measurements of the binary tetrahydrofuran and helium clathrate hydrates. *Korean Journal of Chemical Engineering*, **2008**, 25, 154-157	2.8	7
43	Spectroscopic evidences of the double hydrogen hydrates stabilized with ethane and propane. *Korean Journal of Chemical Engineering*, **2007**, 24, 624-627	2.8	24
42	Gauche conformation of acyclic guest molecules appearing in the large cages of structure-H clathrate hydrates. *Korean Journal of Chemical Engineering*, **2007**, 24, 843-846	2.8	9
41	Fabrication of silver nanoparticles via self-regulated reduction by 1-(2-hydroxyethyl)-3-methylimidazolium tetrafluoroborate. *Korean Journal of Chemical Engineering*, **2007**, 24, 856-859	2.8	40
40	Size-controlled electrochemical synthesis of palladium nanoparticles using morpholinium ionic liquid. *Korean Journal of Chemical Engineering*, **2007**, 24, 1089-1094	2.8	37
39	Poly(vinylidenefluoride)-hexafluoropropylene gel electrolytes based on N-(2-hydroxyethyl)-N-methyl morpholinium ionic liquids. *Korean Journal of Chemical Engineering*, **2006**, 23, 940-947	2.8	10
38	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. *Korean Journal of Chemical Engineering*, **2006**, 23, 113-116	2.8	35
37	Phase and kinetic behavior of the mixed methane and carbon dioxide hydrates. *Korean Journal of Chemical Engineering*, **2006**, 23, 283-287	2.8	9

36	Phase behavior and structure transition of the mixed methane and nitrogen hydrates. *Korean Journal of Chemical Engineering*, **2006**, 23, 299-302	2.8	18
35	The Inclusion of Hydrogen in Clathrate Hydrates of the Various Guests and Tuning of the tert-Butylamine Hydrate. *Materials Research Society Symposia Proceedings*, **2006**, 927, 1		
34	Facile one-pot synthesis of gold nanoparticles using alcohol ionic liquids. *Journal of Materials Chemistry*, **2006**, 16, 1315		124
33	Tuning clathrate hydrates for hydrogen storage. *Nature*, **2005**, 434, 743-6	50.4	651
32	Synthesis and ionic conductivities of lithium-doped morpholinium salts. *Korean Journal of Chemical Engineering*, **2005**, 22, 281-284	2.8	11
31	Thermal and electrochemical properties of morpholinium salts with bromide anion. *Korean Journal of Chemical Engineering*, **2005**, 22, 945-948	2.8	11
30	One-phase preparation of palladium nanoparticles using thiol-functionalized ionic liquid. *Korean Journal of Chemical Engineering*, **2005**, 22, 717-720	2.8	16
29	Compositional and structural identification of natural gas hydrates collected at site 1249 on ocean drilling program leg 204. *Korean Journal of Chemical Engineering*, **2005**, 22, 569-572	2.8	20
28	Replacement of Methane Hydrate by Carbon Dioxide: 13C NMR Study for Studying a Limit to the Degree of Substitution. *Studies in Surface Science and Catalysis*, **2004**, 153, 495-500	1.8	9
27	Physical and electrochemical properties of 1-butyl-3-methylimidazolium bromide, 1-butyl-3-methylimidazolium iodide, and 1-butyl-3-methylimidazolium tetrafluoroborate. *Korean Journal of Chemical Engineering*, **2004**, 21, 1010-1014	2.8	106
26	Structure and Guest Distribution of the Mixed Carbon Dioxide and Nitrogen Hydrates As Revealed by X-ray Diffraction and 13C NMR Spectroscopy. *Journal of Physical Chemistry B*, **2004**, 108, 530-534	3.4	71
25	Heat capacity measurement and cycle simulation of the trifluoroethanol (TFE) +quinoline mixture as a new organic working fluid used in absorption heat pump. *Korean Journal of Chemical Engineering*, **2003**, 20, 762-767	2.8	8
24	13C NMR analysis and gas uptake measurements of pure and mixed gas hydrates: Development of natural gas transport and storage method using gas hydrate. *Korean Journal of Chemical Engineering*, **2003**, 20, 1085-1091	2.8	54
23	Recovering methane from solid methane hydrate with carbon dioxide. *Angewandte Chemie - International Edition*, **2003**, 42, 5048-51	16.4	292
22	Generalized model for predicting phase behavior of clathrate hydrate. *AICHE Journal*, **2002**, 48, 1317-1330	3.6	38
21	Phase equilibria and kinetic behavior of co2 hydrate in electrolyte and porous media solutions: application to ocean sequestration of CO2. *Korean Journal of Chemical Engineering*, **2002**, 19, 673-678	2.8	39
20	Differential Enthalpies of Dilution of the Lithium Bromide + 1,3-Propanediol + Water and Lithium Bromide + Lithium Iodide + Lithium Chloride + Lithium Nitrate + Water Systems. *Journal of Chemical & Engineering Data*, **2002**, 47, 397-399	2.8	6
19	CO2 hydrate behavior in the deep ocean sediments; phase equilibrium, formation kinetics, and solubility. *Geophysical Research Letters*, **2002**, 29, 30-1	4.9	20

18	Methane and Carbon Dioxide Hydrate Phase Behavior in Small Porous Silica Gels: Three-Phase Equilibrium Determination and Thermodynamic Modeling. *Langmuir*, **2002**, 18, 9164-9170	4	114
17	Hydration number and two-phase equilibria of CH4 hydrate in the deep ocean sediments. *Geophysical Research Letters*, **2002**, 29, 85-1-85-4	4.9	31
16	Multiple-Phase Hydrate Equilibria of the Ternary Carbon Dioxide, Methane, and Water Mixtures. *Journal of Physical Chemistry B*, **2001**, 105, 10084-10090	3.4	95
15	Solubilities, Vapor Pressures, Densities, and Viscosities of the LiBr + LiI + HO(CH2)3OH + H2O System. *Journal of Chemical & Engineering Data*, **2001**, 46, 79-83	2.8	22
14	Hydrate phase equilibria for gas mixtures containing carbon dioxide: A proof-of-concept to carbon dioxide recovery from multicomponent gas stream. *Korean Journal of Chemical Engineering*, **2000**, 17, 659-667	2.8	69
13	Phase Equilibria of R22 (CHClF2) Hydrate Systems in the Presence of NaCl, KCl, and MgCl2. *Journal of Chemical & Engineering Data*, **2000**, 45, 1150-1153	2.8	20
12	Recovery of CO2 from Flue Gas Using Gas Hydrate: Thermodynamic Verification through Phase Equilibrium Measurements. *Environmental Science & Technology*, **2000**, 34, 4397-4400	10.3	477
11	Phase Equilibria of Carbon Dioxide Hydrate System in the Presence of Sucrose, Glucose, and Fructose. *Journal of Chemical & Engineering Data*, **1999**, 44, 1081-1084	2.8	16
10	Heat Capacities of the Water + Lithium Bromide + Ethanolamine and Water + Lithium Bromide + 1,3-Propanediol Systems. *Journal of Chemical & Engineering Data*, **1997**, 42, 371-373	2.8	21
9	Vapor-liquid equilibria for the binary monoethanolamine+ water and monoethanolamine+ethanol systems. *Korean Journal of Chemical Engineering*, **1997**, 14, 146-148	2.8	17
8	Clathrate phase equilibria for the water□phenol□carbon dioxide system. *AICHE Journal*, **1997**, 43, 1884-1893	3.6	28
7	Clathrate Phase Equilibria for the Water + Deuterium Oxide + Carbon Dioxide and Water + Deuterium Oxide + Chlorodifluoromethane (R22) Systems. *Journal of Chemical & Engineering Data*, **1996**, 41, 1114-1116	2.8	30
6	Solubilities and Vapor Pressures of the Water + Lithium Bromide + Ethanolamine System. *Journal of Chemical & Engineering Data*, **1996**, 41, 279-281	2.8	36
5	Kinetics of formation of carbon dioxide clathrate hydrates. *Korean Journal of Chemical Engineering*, **1996**, 13, 620-626	2.8	39
4	Destruction of CFC113 in supercritical and subcritical water. *Korean Journal of Chemical Engineering* , **1996**, 13, 640-641	2.8	6
3	Correlation of the vapor-liquid equilibria of CFC, HCFC and fc mixtures: Critical evaluation of mixing rules. *Korean Journal of Chemical Engineering*, **1995**, 12, 535-539	2.8	1
2	Isolation of vindoline from Catharanthus roseus by supercritical fluid extraction. *Biotechnology Progress*, **1992**, 8, 583-6	2.8	22
1	Generalized thermodynamic behavior for the gaseous and liquid states I. Thermal conductivity. *Korean Journal of Chemical Engineering*, **1990**, 7, 219-225	2.8	