## **Kyuchul Shin**

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3591641/publications.pdf Version: 2024-02-01



Кунсниі Снім

#	Article	IF	CITATIONS
1	Separation and purification of Sr-90 nuclide from a waste mixture. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 275-281.	1.5	1
2	Effect of Methanol Guests on Thermal Properties of NH <sub>4</sub> F-Doped THF Clathrate Hydrate. Energy & Fuels, 2022, 36, 10504-10511.	5.1	2
3	Managing hydrogen bonding in the clathrate hydrate of the 1-pentanol guest molecule. CrystEngComm, 2021, 23, 4708-4716.	2.6	5
4	Incorporation of Ammonium Fluoride and Methanol in Carbon Dioxide Clathrate Hydrates and Their Significance for Hydrate-Based Gas Separation. Industrial & Engineering Chemistry Research, 2021, 60, 11267-11276.	3.7	5
5	Enhanced methane storage in clathrate hydrates induced by antifreezes. Chemical Engineering Journal, 2021, 418, 129304.	12.7	24
6	Solid-state conversion of metal oleate precursors for the preparation of LiNi1/3Co1/3Mn1/3O2 as cathode material for lithium-ion batteries. Korean Journal of Chemical Engineering, 2020, 37, 1258-1265.	2.7	4
7	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.	3.1	8
8	Spectroscopic Observations of Host–Guest Hydrogen Bonding in Binary Cyclopropanemethanol + Methane Hydrate. Journal of Physical Chemistry C, 2019, 123, 26777-26784.	3.1	8
9	Highly Efficient Recovery of Water-Soluble Polymers in Synergistic Kinetic Inhibition of Gas Hydrate Formation. ACS Applied Polymer Materials, 2019, 1, 130-135.	4.4	6
10	Clathrate nanocage reactor for the decomposition of greenhouse gas. Chemical Engineering Journal, 2019, 359, 1629-1634.	12.7	28
11	LCST-Modulated Polymers for Synergistic Hydrate Inhibition in Methane Gas Flowlines. Energy & Fuels, 2018, 32, 3013-3021.	5.1	20
12	Structural Identification of Binary Tetrahydrofuran + O2 and 3-Hydroxytetrahydrofuran + O2 Clathrate Hydrates by Rietveld Analysis with Direct Space Method. Crystals, 2018, 8, 328.	2.2	8
13	Thermal expansivity of γ-irradiated clathrate hydrate with intracavity conformational change. Chemical Physics Letters, 2018, 706, 14-18.	2.6	4
14	Managing Hydrogen Bonding in Clathrate Hydrates by Crystal Engineering. Angewandte Chemie - International Edition, 2017, 56, 6171-6175.	13.8	25
15	Managing Hydrogen Bonding in Clathrate Hydrates by Crystal Engineering. Angewandte Chemie, 2017, 129, 6267-6271.	2.0	20
16	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.	3.5	9
17	CH 4 -CO 2 replacement occurring in sII natural gas hydrates for CH 4 recovery and CO 2 sequestration. Energy Conversion and Management, 2017, 150, 356-364.	9.2	60
18	Structure identification of binary 1-propanol+methane hydrate using neutron powder diffraction. Korean Journal of Chemical Engineering, 2017, 34, 2514-2518.	2.7	15

KYUCHUL SHIN

#	Article	IF	CITATIONS
19	Intracavity Conformational Changes in Clathrate Hydrates. Journal of Physical Chemistry C, 2016, 120, 17190-17195.	3.1	10
20	Structural identification of DClO4 clathrate hydrates: Neutron powder diffraction analysis. Korean Journal of Chemical Engineering, 2016, 33, 1728-1735.	2.7	3
21	Effect of Hydrate Shell Formation on the Stability of Dry Water. Journal of Physical Chemistry C, 2015, 119, 1690-1699.	3.1	52
22	Kinetics of Methane Hydrate Replacement with Carbon Dioxide and Nitrogen Gas Mixture Using in Situ NMR Spectroscopy. Environmental Science & Technology, 2015, 49, 1964-1971.	10.0	111
23	Effect of Guest–Host Hydrogen Bonding on Thermodynamic Stability of Clathrate Hydrates: Diazine Isomers. Journal of Physical Chemistry C, 2015, 119, 10218-10226.	3.1	14
24	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.	1.1	7
25	Crystal engineering and characterization of a structure-H ionic clathrate hydrate. Canadian Journal of Chemistry, 2015, 93, 850-857.	1.1	8
26	Molecular Dynamics Simulations of Hydrogen Bonding in Clathrate Hydrates with Ammonia and Methanol Guest Molecules. Journal of Chemical & Engineering Data, 2015, 60, 389-397.	1.9	34
27	Effect of kinetic hydrate inhibitor and liquid hydrocarbon on the heterogeneous segregation and deposition of gas hydrate particles. Korean Journal of Chemical Engineering, 2014, 31, 2177-2182.	2.7	6
28	Antifreezes Act as Catalysts for Methane Hydrate Formation from Ice. Angewandte Chemie - International Edition, 2014, 53, 10429-10433.	13.8	33
29	Crystal engineering the clathrate hydrate lattice with NH <sub>4</sub> F. CrystEngComm, 2014, 16, 7209-7217.	2.6	36
30	Synergistic Hydrate Inhibition of Monoethylene Glycol with Poly(vinylcaprolactam) in Thermodynamically Underinhibited System. Journal of Physical Chemistry B, 2014, 118, 9065-9075.	2.6	78
31	Preventing Gas Hydrate Agglomeration with Polymer Hydrogels. Energy & Fuels, 2014, 28, 4409-4420.	5.1	32
32	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.	3.1	8
33	Thermodynamic and kinetic hydrate inhibition performance of aqueous ethylene glycol solutions for natural gas. Chemical Engineering Science, 2013, 99, 184-190.	3.8	134
34	Catastrophic Growth of Gas Hydrates in the Presence of Kinetic Hydrate Inhibitors. Journal of Physical Chemistry A, 2013, 117, 13988-13995.	2.5	68
35	Methanol incorporation in clathrate hydrates and the implications for oil and gas pipeline flow assurance and icy planetary bodies. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8437-8442.	7.1	113
36	Ammonia clathrate hydrates as new solid phases for Titan, Enceladus, and other planetary systems. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14785-14790.	7.1	99

**KYUCHUL SHIN** 

10

#	Article	IF	CITATIONS
37	Metastability of Ethane Clathrate Hydrate Induced by [Co(NH3)6]3+ Complex. Journal of Physical Chemistry C, 2011, 115, 2558-2562.	3.1	6
38	Superexchange-Like Interaction of Encaged Molecular Oxygen in Nitrogen-Doped Water Cages of Clathrate Hydrates. Journal of the American Chemical Society, 2011, 133, 20399-20404.	13.7	17
39	Direct observation of atomic hydrogen generated from the water framework of clathrate hydrates. Chemical Communications, 2011, 47, 674-676.	4.1	24
40	Thermal Expansivity of Ionic Clathrate Hydrates Including Gaseous Guest Molecules. Journal of Physical Chemistry B, 2011, 115, 958-963.	2.6	12
41	Physicochemical Properties of Ionic Clathrate Hydrates. Chemistry - an Asian Journal, 2010, 5, 22-34.	3.3	19
42	Superoxide lons Entrapped in Water Cages of Ionic Clathrate Hydrates. Journal of the American Chemical Society, 2010, 132, 3694-3696.	13.7	21
43	Spectroscopy Identification and Thermodynamic Stability of <i>tert</i> -Butyl Nitrite and Methane Clathrate Hydrate. Journal of Chemical & Engineering Data, 2010, 55, 5906-5909.	1.9	5
44	Spectroscopic Identification of Amyl Alcohol Hydrates through Free OH Observation. Journal of Physical Chemistry B, 2009, 113, 10562-10565.	2.6	42
45	Tetra- <i>n</i> -butylammonium Borohydride Semiclathrate: A Hybrid Material for Hydrogen Storage. Journal of Physical Chemistry A, 2009, 113, 6415-6418.	2.5	70
46	Spectroscopic observation of H2 migration in structure-I clathrate hydrate. Korean Journal of Chemical Engineering, 2008, 25, 1397-1400.	2.7	8
47	Equilibrium and crystallographic measurements of the binary tetrahydrofuran and helium clathrate hydrates. Korean Journal of Chemical Engineering, 2008, 25, 154-157.	2.7	8
48	Swapping Phenomena Occurring in Deep-Sea Gas Hydrates. Energy & Fuels, 2008, 22, 3160-3163.	5.1	72
49	Discrete Magnetic Patterns of Nonionic and Ionic Clathrate Hydrates. Journal of the American Chemical Society, 2008, 130, 17234-17235.	13.7	16
50	Maximized Proton Conductivity of the HPF6 Clathrate Hydrate by Structural Transformation. Journal of Physical Chemistry C, 2008, 112, 13332-13335.	3.1	21
51	Structural Transformation due to Co-Host Inclusion in Ionic Clathrate Hydrates. Journal of the American Chemical Society, 2008, 130, 7180-7181.	13.7	19
52	Structure Transition and Tuning Pattern in the Double (Tetramethylammonium Hydroxide + Gaseous) Tj ETQq0 C	0 rgBT /C	overlock 10 Th
53	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.	2.7	11

<sup>&</sup>lt;sup>54</sup> Phase and kinetic behavior of the mixed methane and carbon dioxide hydrates. Korean Journal of Chemical Engineering, 2006, 23, 283-287. 2.7