

# Yongwon Seo

## List of Publications by Year in descending order

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109  
papers

4,285  
citations

87888

38  
h-index

123424

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110  
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110  
docs citations

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times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recovering Methane from Solid Methane Hydrate with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5048-5051.	13.8	332
2	Continuous operation of the potassium-based dry sorbent CO <sub>2</sub> capture process with two fluidized-bed reactors. <i>International Journal of Greenhouse Gas Control</i> , 2007, 1, 31-36.	4.6	168
3	Methane and Carbon Dioxide Hydrate Phase Behavior in Small Porous Silica Gels: A Three-Phase Equilibrium Determination and Thermodynamic Modeling. <i>Langmuir</i> , 2002, 18, 9164-9170.	3.5	140
4	Experimental Verification of Methane-Carbon Dioxide Replacement in Natural Gas Hydrates Using a Differential Scanning Calorimeter. <i>Environmental Science &amp; Technology</i> , 2013, 47, 13184-13190.	10.0	139
5	CO <sub>2</sub> Capture from Simulated Fuel Gas Mixtures Using Semiclathrate Hydrates Formed by Quaternary Ammonium Salts. <i>Environmental Science &amp; Technology</i> , 2013, 47, 7571-7577.	10.0	136
6	Separation of SF <sub>6</sub> from Gas Mixtures Using Gas Hydrate Formation. <i>Environmental Science &amp; Technology</i> , 2010, 44, 6117-6122.	10.0	120
7	CH <sub>4</sub> recovery and CO <sub>2</sub> sequestration using flue gas in natural gas hydrates as revealed by a micro-differential scanning calorimeter. <i>Applied Energy</i> , 2015, 150, 120-127.	10.1	116
8	Hydrate-based pre-combustion capture of carbon dioxide in the presence of a thermodynamic promoter and porous silica gels. <i>International Journal of Greenhouse Gas Control</i> , 2013, 14, 193-199.	4.6	115
9	Effects of water vapor pretreatment time and reaction temperature on CO <sub>2</sub> capture characteristics of a sodium-based solid sorbent in a bubbling fluidized-bed reactor. <i>Chemosphere</i> , 2007, 69, 712-718.	8.2	108
10	Structure identification and dissociation enthalpy measurements of the CO <sub>2</sub> + N <sub>2</sub> hydrates for their application to CO <sub>2</sub> capture and storage. <i>Chemical Engineering Journal</i> , 2014, 246, 20-26.	12.7	88
11	Guest Gas Enclathration in Semiclathrates of Tetra- <i>n</i> -butylammonium Bromide: Stability Condition and Spectroscopic Analysis. <i>Langmuir</i> , 2011, 27, 10597-10603.	3.5	83
12	Phase Equilibria of Semiclathrate Hydrate for Nitrogen in the Presence of Tetra- <i>n</i> -butylammonium Bromide and Fluoride. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 5883-5886.	1.9	77
13	CH <sub>4</sub> "Flue gas replacement occurring in sH hydrates and its significance for CH <sub>4</sub> recovery and CO <sub>2</sub> sequestration. <i>Chemical Engineering Journal</i> , 2017, 308, 50-58.	12.7	73
14	Semiclathrate-based CO <sub>2</sub> capture from flue gas mixtures: An experimental approach with thermodynamic and Raman spectroscopic analyses. <i>Applied Energy</i> , 2015, 154, 987-994.	10.1	70
15	Thermodynamic and <sup>13</sup> C NMR spectroscopic verification of methane-carbon dioxide replacement in natural gas hydrates. <i>Chemical Engineering Journal</i> , 2013, 225, 636-640.	12.7	63
16	Thermodynamic and Spectroscopic Identification of Guest Gas Enclathration in the Double Tetra- <i>n</i> -butylammonium Fluoride Semiclathrates. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9075-9081.	2.6	62
17	Effect of water pretreatment on CO <sub>2</sub> capture using a potassium-based solid sorbent in a bubbling fluidized bed reactor. <i>Korean Journal of Chemical Engineering</i> , 2007, 24, 457-460.	2.7	61
18	Phase Equilibria and Thermodynamic Modeling of Ethane and Propane Hydrates in Porous Silica Gels. <i>Journal of Physical Chemistry B</i> , 2009, 113, 5487-5492.	2.6	61

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19	Guest gas enclathration in tetra-n-butyl ammonium chloride (TBAC) semiclathrates: Potential application to natural gas storage and CO <sub>2</sub> capture. <i>Applied Energy</i> , 2015, 140, 107-112.	10.1	61
20	CH <sub>4</sub> -CO <sub>2</sub> replacement occurring in all natural gas hydrates for CH <sub>4</sub> recovery and CO <sub>2</sub> sequestration. <i>Energy Conversion and Management</i> , 2017, 150, 356-364.	9.2	60
21	A New Hydrate-Based Recovery Process for Removing Chlorinated Hydrocarbons from Aqueous Solutions. <i>Environmental Science &amp; Technology</i> , 2001, 35, 3386-3390.	10.0	56
22	Thermodynamic, structural, and kinetic studies of cyclopentane+CO <sub>2</sub> hydrates: Applications for desalination and CO <sub>2</sub> capture. <i>Chemical Engineering Journal</i> , 2019, 375, 121974.	12.7	55
23	Thermodynamic and kinetic influences of NaCl on HFC-125a hydrates and their significance in gas hydrate-based desalination. <i>Chemical Engineering Journal</i> , 2019, 358, 598-605.	12.7	55
24	Experimental Measurement and Thermodynamic Modeling of the Mixed CH <sub>4</sub> + C <sub>3</sub> H <sub>8</sub> Clathrate Hydrate Equilibria in Silica Gel Pores: Effects of Pore Size and Salinity. <i>Langmuir</i> , 2010, 26, 9742-9748.	3.5	54
25	Enclathration of CO <sub>2</sub> as a co-guest of structure H hydrates and its implications for CO <sub>2</sub> capture and sequestration. <i>Applied Energy</i> , 2016, 163, 51-59.	10.1	54
26	Greenhouse Gas (CH <sub>3</sub> ) Separation by Gas Hydrate Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 5485-5492.	6.7	52
27	A New Method for Separating HFC-134a from Gas Mixtures Using Clathrate Hydrate Formation. <i>Environmental Science &amp; Technology</i> , 2004, 38, 4635-4639.	10.0	51
28	Kinetic CO <sub>2</sub> selectivity in clathrate-based CO <sub>2</sub> capture for upgrading CO <sub>2</sub> -rich natural gas and biogas. <i>Chemical Engineering Journal</i> , 2019, 369, 686-693.	12.7	51
29	Isostructural and cage-specific replacement occurring in all hydrate with external CO <sub>2</sub> /N <sub>2</sub> gas and its implications for natural gas production and CO <sub>2</sub> storage. <i>Applied Energy</i> , 2016, 178, 579-586.	10.1	49
30	Experimental and computational investigation of methane hydrate inhibition in the presence of amino acids and ionic liquids. <i>Energy</i> , 2019, 182, 632-640.	8.8	49
31	Thermodynamic stability and guest distribution of CH <sub>4</sub> /N <sub>2</sub> /CO <sub>2</sub> mixed hydrates for methane hydrate production using N <sub>2</sub> /CO <sub>2</sub> injection. <i>Journal of Chemical Thermodynamics</i> , 2017, 106, 16-21.	2.0	46
32	Enhanced CH <sub>4</sub> Recovery Induced via Structural Transformation in the CH <sub>4</sub> /CO <sub>2</sub> Replacement That Occurs in sH Hydrates. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8899-8906.	10.0	45
33	Characterization of cyclopentane clathrates with gaseous guests for gas storage and separation. <i>Chemical Engineering Journal</i> , 2018, 338, 572-578.	12.7	44
34	Structural transition induced by cage-dependent guest exchange in CH <sub>4</sub> +C <sub>3</sub> H <sub>8</sub> hydrates with CO <sub>2</sub> injection for energy recovery and CO <sub>2</sub> sequestration. <i>Applied Energy</i> , 2018, 228, 229-239.	10.1	44
35	Influences of large molecular alcohols on gas hydrates and their potential role in gas storage and CO <sub>2</sub> sequestration. <i>Chemical Engineering Journal</i> , 2015, 267, 117-123.	12.7	42
36	Semiclathrate-based CO <sub>2</sub> capture from flue gas in the presence of tetra-n-butyl ammonium chloride (TBAC). <i>Chemical Engineering Journal</i> , 2015, 276, 205-212.	12.7	42

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37	CO <sub>2</sub> capture from flue gas using clathrate formation in the presence of thermodynamic promoters. Energy, 2017, 118, 950-956.	8.8	40
38	Clathrate-Based CO <sub>2</sub> Capture from CO <sub>2</sub> -Rich Natural Gas and Biogas. ACS Sustainable Chemistry and Engineering, 2018, 6, 5627-5635.	6.7	39
39	Influence of CH <sub>4</sub> hydrate exploitation using depressurization and replacement methods on mechanical strength of hydrate-bearing sediment. Applied Energy, 2020, 277, 115569.	10.1	38
40	Kinetics of Esterification of Lactic Acid with Methanol in the Presence of Cation Exchange Resin Using a Pseudo-Homogeneous Model.. Journal of Chemical Engineering of Japan, 2000, 33, 128-133.	0.6	37
41	Hydration number and two-phase equilibria of CH <sub>4</sub> hydrate in the deep ocean sediments. Geophysical Research Letters, 2002, 29, 85-1-85-4.	4.0	36
42	Effects of operation variables on the recovery of lactic acid in a batch distillation process with chemical reactions. Korean Journal of Chemical Engineering, 1999, 16, 556-561.	2.7	35
43	Accurate measurement of phase equilibria and dissociation enthalpies of HFC-134a hydrates in the presence of NaCl for potential application in desalination. Korean Journal of Chemical Engineering, 2016, 33, 1425-1430.	2.7	35
44	Guest enclathration and structural transition in CO <sub>2</sub> + N <sub>2</sub> + methylcyclopentane hydrates and their significance for CO <sub>2</sub> capture and sequestration. Chemical Engineering Journal, 2017, 320, 43-49.	12.7	35
45	Time-dependent observation of a cage-specific guest exchange in sl hydrates for CH <sub>4</sub> recovery and CO <sub>2</sub> sequestration. Chemical Engineering Journal, 2020, 389, 124434.	12.7	34
46	Hydrate Phase Equilibria of the Ternary CH <sub>4</sub> + NaCl + Water, CO <sub>2</sub> + NaCl + Water and CH <sub>4</sub> + CO <sub>2</sub> + Water Mixtures in Silica Gel Pores. Journal of Physical Chemistry B, 2003, 107, 889-894.	2.6	33
47	Spatial and temporal variations of volatile organic compounds using passive air samplers in the multi-industrial city of Ulsan, Korea. Environmental Science and Pollution Research, 2019, 26, 5831-5841.	5.3	32
48	Separation efficiency and equilibrium recovery ratio of SF <sub>6</sub> in hydrate-based greenhouse gas separation. Chemical Engineering Journal, 2021, 405, 126956.	12.7	31
49	1-Propanol as a co-guest of gas hydrates and its potential role in gas storage and CO <sub>2</sub> sequestration. Chemical Engineering Journal, 2014, 258, 427-432.	12.7	30
50	Enclathration of tert-butyl alcohol in sl hydrates and its implications in gas storage and CO <sub>2</sub> sequestration. Fuel, 2016, 164, 237-244.	6.4	30
51	The effect of rainstorm movement on urban drainage network runoff hydrographs. Hydrological Processes, 2012, 26, 3830-3841.	2.6	29
52	Formation and dissociation behaviors of SF <sub>6</sub> hydrates in the presence of a surfactant and an antifoaming agent for hydrate-based greenhouse gas (SF <sub>6</sub> ) separation. Chemical Engineering Journal, 2020, 400, 125973.	12.7	29
53	Effect of Reaction Temperature on CO <sub>2</sub> Capture Using Potassium-Based Solid Sorbent in Bubbling Fluidized-Bed Reactor. Journal of Environmental Engineering, ASCE, 2009, 135, 473-477.	1.4	28
54	Phase Behavior and Structure Identification of the Mixed Chlorinated Hydrocarbon Clathrate Hydrates. Journal of Physical Chemistry B, 2002, 106, 9668-9673.	2.6	27

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55	Thermodynamic inhibition effects of an ionic liquid (choline chloride), a naturally derived substance (urea), and their mixture (deep eutectic solvent) on CH <sub>4</sub> hydrates. Chemical Engineering Journal, 2020, 399, 125830.	12.7	27
56	<i>In Situ</i> Raman Study of the Formation and Dissociation Kinetics of Methane and Methane/Propane Hydrates. Energy & Fuels, 2020, 34, 6288-6297.	5.1	27
57	Efficient dual-function inhibitors for prevention of gas hydrate formation and CO <sub>2</sub> /H <sub>2</sub> S corrosion inside oil and gas pipelines. Chemical Engineering Journal, 2022, 431, 134098.	12.7	25
58	Phase Behavior and <sup>13</sup> C NMR Spectroscopic Analysis of the Mixed Methane + Ethane + Propane Hydrates in Mesoporous Silica Gels. Journal of Physical Chemistry B, 2010, 114, 15079-15084.	2.6	24
59	Enclathration of CHF <sub>3</sub> and C <sub>2</sub> F <sub>6</sub> molecules in gas hydrates for potential application in fluorinated gas (F-gas) separation. Chemical Engineering Journal, 2016, 306, 298-305.	12.7	24
60	Influence of Competitive Inclusion of CO <sub>2</sub> and N <sub>2</sub> on sII Hydrate "Flue Gas Replacement for Energy Recovery and CO <sub>2</sub> Sequestration. Environmental Science & Technology, 2020, 54, 7562-7569.	10.0	24
61	The Effect of Voidage on the CO <sub>2</sub> Sorption Capacity of K-Based Sorbent in a Dual Circulating Fluidized Bed Process. Journal of Chemical Engineering of Japan, 2008, 41, 691-694.	0.6	24
62	2-Propanol As a Co-Guest of Structure II Hydrates in the Presence of Help Gases. Journal of Physical Chemistry B, 2013, 117, 2449-2455.	2.6	23
63	Dual inhibition effects of diamines on the formation of methane gas hydrate and their significance for natural gas production and transportation. Energy Conversion and Management, 2016, 124, 578-586.	9.2	23
64	Evaluation of kinetic salt-enrichment behavior and separation performance of HFC-152a hydrate-based desalination using an experimental measurement and a thermodynamic correlation. Water Research, 2021, 193, 116882.	11.3	23
65	Effects of pressure and temperature conditions on thermodynamic and kinetic guest exchange behaviors of CH <sub>4</sub> " CO <sub>2</sub> + N <sub>2</sub> replacement for energy recovery and greenhouse gas storage. Energy, 2022, 239, 122153.	8.8	23
66	Structure Transition from Semi- to True Clathrate Hydrates Induced by CH <sub>4</sub> Enclathration. Journal of Physical Chemistry C, 2012, 116, 16352-16357.	3.1	22
67	Recoverable and recyclable gas hydrate inhibitors based on magnetic nanoparticle-decorated metal-organic frameworks. Chemical Engineering Journal, 2020, 401, 126081.	12.7	22
68	CH <sub>4</sub> enclathration in tetra-iso-amyl ammonium bromide (TiAAB) semiclathrate and its significance for natural gas storage. Chemical Engineering Journal, 2017, 330, 1160-1165.	12.7	21
69	Synergistic kinetic inhibition of amino acids and ionic liquids on CH <sub>4</sub> hydrate for flow assurance. Fuel, 2020, 263, 116689.	6.4	21
70	Network configuration and hydrograph sensitivity to storm kinematics. Water Resources Research, 2013, 49, 1812-1827.	4.2	20
71	Magnetic Transition and Long-Time Relaxation Behavior Induced by Selective Injection of Guest Molecules into Clathrate Hydrates. Journal of the American Chemical Society, 2009, 131, 5736-5737.	13.7	17
72	Stability conditions and guest distribution of the methane + ethane + propane hydrates or semiclathrates in the presence of tetrahydrofuran or quaternary ammonium salts. Journal of Chemical Thermodynamics, 2013, 65, 113-119.	2.0	17

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73	Inhibition synergism of glycine (an amino acid) and [BMIM][BF <sub>4</sub> ] (an ionic liquid) on the growth of CH <sub>4</sub> hydrate. Chemical Engineering Journal, 2020, 393, 124466.	12.7	17
74	The dual-functional roles of N <sub>2</sub> gas for the exploitation of natural gas hydrates: An inhibitor for dissociation and an external guest for replacement. Energy, 2021, 232, 121054.	8.8	16
75	Application of Gibbs's model to urban drainage networks: a case study in southwestern Chicago, USA. Hydrological Processes, 2014, 28, 1148-1158.	2.6	15
76	Structural Transformation of Isopropylamine Semiclathrate Hydrates in the Presence of Methane as a Coguest. Journal of Physical Chemistry B, 2012, 116, 13476-13480.	2.6	14
77	Incorporation of ammonium fluoride into clathrate hydrate lattices and its significance in inhibiting hydrate formation. Chemical Communications, 2015, 51, 8761-8764.	4.1	14
78	Optimal driving force for the dissociation of CH <sub>4</sub> hydrates in hydrate-bearing sediments using depressurization. Energy, 2021, 223, 120047.	8.8	14
79	SF <sub>6</sub> Hydrate Formation in Various Reaction Media: A Preliminary Study on Hydrate-Based Greenhouse Gas Separation. Environmental Science & Technology, 2019, 53, 12945-12952.	10.0	13
80	A novel discovery of a gaseous sH clathrate hydrate former. Chemical Engineering Journal, 2019, 359, 775-778.	12.7	12
81	Theoretically achievable efficiency of hydrate-based desalination and its significance for evaluating kinetic desalination performance of gaseous hydrate formers. Desalination, 2022, 524, 115487.	8.2	12
82	Experimental Measurement and Thermodynamic Modeling of Hydrate-Phase Equilibria for the Ternary C <sub>2</sub> H <sub>6</sub> + NaCl + Water and C <sub>3</sub> H <sub>8</sub> + NaCl + Water Mixtures in Silica Gel Pores. Energy & Fuels, 2010, 24, 6074-6080.	5.1	10
83	Synergistic inhibition effects of hydrophilic monomeric substances on CH <sub>4</sub> hydrate as revealed by experimental and computational approaches. Chemical Engineering Journal, 2021, 426, 130794.	12.7	10
84	Experimental and computational investigation of hydrophilic monomeric substances as novel CO <sub>2</sub> hydrate inhibitors and potential synergists. Energy, 2022, 244, 123136.	8.8	10
85	Structural transition and phase behavior of N <sub>2</sub> gas hydrates with pinacolyl alcohol and tert-amyl alcohol. Fluid Phase Equilibria, 2015, 393, 85-90.	2.5	9
86	Thermodynamic phase equilibria and cage occupancy of NF <sub>3</sub> hydrate. Fluid Phase Equilibria, 2018, 471, 55-60.	2.5	9
87	Influence of feed gas composition on structural transformation and guest exchange behaviors in sH hydrate " Flue gas replacement for energy recovery and CO <sub>2</sub> sequestration. Energy, 2020, 207, 118299.	8.8	8
88	Multifractal properties of the peak flow distribution on stochastic drainage networks. Stochastic Environmental Research and Risk Assessment, 2014, 28, 1157-1165.	4.0	7
89	Guest-Guest Interactions and Co-Occupation by Distinct Guests in the Metastable State of Clathrate Hydrates. Journal of Physical Chemistry C, 2019, 123, 3811-3816.	3.1	7
90	Fused aromatic networks as a new class of gas hydrate inhibitors. Chemical Engineering Journal, 2022, 433, 133691.	12.7	7

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91	Improved Experimental Determinations of Phase Equilibria and Structural Transitions of Mixed Gas Hydrates under Isothermal Conditions. <i>Energy &amp; Fuels</i> , 2013, 27, 5144-5152.	5.1	6
92	Multifractal characteristics of the jet turbulent intensity depending on the outfall nozzle geometry. <i>Stochastic Environmental Research and Risk Assessment</i> , 2016, 30, 653-664.	4.0	6
93	Phase equilibria, dissociation enthalpies, and Raman spectroscopic analyses of N <sub>2</sub> + tetra-n-butyl ammonium chloride (TBAC) semiclathrates. <i>Fluid Phase Equilibria</i> , 2016, 413, 86-91.	2.5	6
94	Phase equilibria and azeotropic behavior of C <sub>2</sub> F <sub>6</sub> + N <sub>2</sub> gas hydrates. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 43-47.	2.0	6
95	Experimental investigation of the exact role of large-molecule guest substances (LMGSs) in determining phase equilibria and structures of natural gas hydrates. <i>Energy</i> , 2021, 215, 119219.	8.8	6
96	Thermodynamic and structural features of chlorodifluoromethane (a sl <sup>l</sup> dual hydrate former) + external guest (N <sub>2</sub> or CH <sub>4</sub> ) hydrates and their significance for greenhouse gas separation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15693-15701.	2.8	6
97	Spectroscopy Identification and Thermodynamic Stability of <i>tert</i> -Butyl Nitrite and Methane Clathrate Hydrate. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 5906-5909.	1.9	5
98	Mechanism and kinetics of guest exchange in sl <sup>l</sup> hydrate “Flue gas replacement as revealed by experimental and computational approaches for hydrocarbon recovery and CO <sub>2</sub> sequestration. <i>Chemical Engineering Journal</i> , 2021, 417, 128119.	12.7	5
99	The impact of the abnormal salinity enrichment in pore water on the thermodynamic stability of marine natural gas hydrates in the Arctic region. <i>Science of the Total Environment</i> , 2021, 799, 149357.	8.0	5
100	Kinetic Selectivity of SF <sub>6</sub> during Formation and Dissociation of SF <sub>6</sub> + N <sub>2</sub> Hydrates and Its Significance in Hydrate-Based Greenhouse Gas Separation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 14152-14160.	6.7	5
101	Thermodynamic and Structural Investigation of Xe and Kr Hydrates Containing Tetrahydrofuran for Applications in Gas Capture and Storage. <i>Energy &amp; Fuels</i> , 2022, 36, 10652-10658.	5.1	4
102	Phase equilibria of tetra-iso-amyl ammonium bromide (TiAAB) semiclathrates with CO <sub>2</sub> , N <sub>2</sub> , or CO <sub>2</sub> +N <sub>2</sub> . <i>Journal of Chemical Thermodynamics</i> , 2020, 142, 106024.	2.0	3
103	Complex Phase Behaviors and Structural Coexistence of Natural Gas Hydrates Containing Large-Molecule Guest Substances. <i>Energy &amp; Fuels</i> , 2021, 35, 6081-6089.	5.1	3
104	MULTIFRACTAL CHARACTERISTICS OF AXISYMMETRIC JET TURBULENCE INTENSITY FROM RANS NUMERICAL SIMULATION. <i>Fractals</i> , 2018, 26, 1850008.	3.7	2
105	The effect of nozzle geometry on the turbulence evolution in an axisymmetric jet flow: A focus on fractals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 550, 124145.	2.6	2
106	Connectivity-informed drainage network generation using deep convolution generative adversarial networks. <i>Scientific Reports</i> , 2021, 11, 1519.	3.3	2
107	One-Step DME Synthesis from Coal-Derived, CO-Rich Syngas in a Slurry Reactor. <i>Journal of Chemical Engineering of Japan</i> , 2008, 41, 585-589.	0.6	2
108	Science Walden: Exploring the Convergence of Environmental Technologies with Design and Art. <i>Sustainability</i> , 2017, 9, 35.	3.2	1

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109	Impact of High Methane Flux on the Properties of Pore Fluid and Methane-Derived Authigenic Carbonate in the ARAON Mounds, Chukchi Sea. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	1