

Peter Englezos

List of Publications by Year in descending order

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160
papers

12,628
citations

19608

61
h-index

24179

110
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164
all docs

164
docs citations

164
times ranked

4719
citing authors

#	ARTICLE	IF	CITATIONS
1	Clathrate hydrates. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 1251-1274.	1.8	863
2	Patterned Superhydrophobic Metallic Surfaces. <i>Langmuir</i> , 2009, 25, 4821-4827.	1.6	677
3	Kinetics of formation of methane and ethane gas hydrates. <i>Chemical Engineering Science</i> , 1987, 42, 2647-2658.	1.9	658
4	A review of the hydrate based gas separation (HBGS) process for carbon dioxide pre-combustion capture. <i>Energy</i> , 2015, 85, 261-279.	4.5	481
5	The clathrate hydrate process for post and pre-combustion capture of carbon dioxide. <i>Journal of Hazardous Materials</i> , 2007, 149, 625-629.	6.5	467
6	Gas hydrate formation from hydrogen/carbon dioxide and nitrogen/carbon dioxide gas mixtures. <i>Chemical Engineering Science</i> , 2007, 62, 4268-4276.	1.9	329
7	Enhanced rate of gas hydrate formation in a fixed bed column filled with sand compared to a stirred vessel. <i>Chemical Engineering Science</i> , 2012, 68, 617-623.	1.9	292
8	A Review of Clathrate Hydrate Based Desalination To Strengthen Energy-Water Nexus. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8093-8107.	3.2	275
9	A new apparatus to enhance the rate of gas hydrate formation: Application to capture of carbon dioxide. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 630-637.	2.3	255
10	Kinetics of gas hydrate formation from mixtures of methane and ethane. <i>Chemical Engineering Science</i> , 1987, 42, 2659-2666.	1.9	240
11	Gas hydrate formation process for pre-combustion capture of carbon dioxide. <i>Energy</i> , 2010, 35, 2729-2733.	4.5	227
12	Gas Hydrate Formation in a Variable Volume Bed of Silica Sand Particles. <i>Energy & Fuels</i> , 2009, 23, 5496-5507.	2.5	218
13	Gas hydrates: A cleaner source of energy and opportunity for innovative technologies. <i>Korean Journal of Chemical Engineering</i> , 2005, 22, 671-681.	1.2	205
14	Medium-Pressure Clathrate Hydrate/Membrane Hybrid Process for Postcombustion Capture of Carbon Dioxide. <i>Environmental Science & Technology</i> , 2008, 42, 315-320.	4.6	200
15	Prediction of gas hydrate formation conditions in aqueous electrolyte solutions. <i>AIChE Journal</i> , 1988, 34, 1718-1721.	1.8	194
16	Equilibrium conditions for methane hydrate formation in aqueous mixed electrolyte solutions. <i>Canadian Journal of Chemical Engineering</i> , 1991, 69, 800-805.	0.9	178
17	Measurement of Dissolved Methane in Water in Equilibrium with Its Hydrate. <i>Journal of Chemical & Engineering Data</i> , 2002, 47, 87-90.	1.0	176
18	Femtosecond laser irradiation of metallic surfaces: effects of laser parameters on superhydrophobicity. <i>Nanotechnology</i> , 2013, 24, 415302.	1.3	175

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19	Magnetic Resonance Imaging of Gas Hydrate Formation in a Bed of Silica Sand Particles. <i>Energy & Fuels</i> , 2011, 25, 3083-3092.	2.5	163
20	Capture of carbon dioxide from flue or fuel gas mixtures by clathrate crystallization in a silica gel column. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 478-485.	2.3	162
21	Physics of ice friction. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	154
22	Effect of temperature and pressure on the solubility of carbon dioxide in water in the presence of gas hydrate. <i>Fluid Phase Equilibria</i> , 2001, 190, 127-134.	1.4	152
23	Enhanced growth of methane-propane clathrate hydrate crystals with sodium dodecyl sulfate, sodium tetradecyl sulfate, and sodium hexadecyl sulfate surfactants. <i>Journal of Crystal Growth</i> , 2010, 313, 68-80.	0.7	152
24	Structure and kinetics of gas hydrates from methane/ethane/propane mixtures relevant to the design of natural gas hydrate storage and transport facilities. <i>AIChE Journal</i> , 2008, 54, 2132-2144.	1.8	151
25	Recovery of Methane from a Variable-Volume Bed of Silica Sand/Hydrate by Depressurization. <i>Energy & Fuels</i> , 2010, 24, 2947-2955.	2.5	149
26	Laser-Patterned Super-Hydrophobic Pure Metallic Substrates: Cassie to Wenzel Wetting Transitions. <i>Journal of Adhesion Science and Technology</i> , 2011, 25, 2789-2809.	1.4	148
27	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 2. Stirred Reactor Experiments. <i>Energy & Fuels</i> , 2011, 25, 4384-4391.	2.5	145
28	Methane Separation from Coal Mine Methane Gas by Tetra- <i>n</i> -butyl Ammonium Bromide Semiclathrate Hydrate Formation. <i>Energy & Fuels</i> , 2012, 26, 2098-2106.	2.5	144
29	Morphology of methane and carbon dioxide hydrates formed from water droplets. <i>AIChE Journal</i> , 2003, 49, 269-276.	1.8	134
30	Structure and composition of CO ₂ /H ₂ and CO ₂ /H ₂ /C ₃ H ₈ hydrate in relation to simultaneous CO ₂ capture and H ₂ production. <i>AIChE Journal</i> , 2009, 55, 1584-1594.	1.8	131
31	Incipient hydrate phase equilibrium for gas mixtures containing hydrogen, carbon dioxide and propane. <i>Fluid Phase Equilibria</i> , 2006, 244, 167-171.	1.4	117
32	Recovery of CH ₄ from coal mine model gas mixture (CH ₄ /N ₂) by hydrate crystallization in the presence of cyclopentane. <i>Fuel</i> , 2013, 106, 425-430.	3.4	105
33	Recovery of Methane from Hydrate Formed in a Variable Volume Bed of Silica Sand Particles. <i>Energy & Fuels</i> , 2009, 23, 5508-5516.	2.5	103
34	Formation of methane nano-bubbles during hydrate decomposition and their effect on hydrate growth. <i>Journal of Chemical Physics</i> , 2015, 142, 214701.	1.2	103
35	Phase equilibrium data on carbon dioxide hydrate in the presence of electrolytes, water soluble polymers and montmorillonite. <i>Canadian Journal of Chemical Engineering</i> , 1994, 72, 887-893.	0.9	102
36	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 3. Structural and Compositional Changes. <i>Energy & Fuels</i> , 2011, 25, 4398-4404.	2.5	99

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37	Two-Stage Clathrate Hydrate/Membrane Process for Precombustion Capture of Carbon Dioxide and Hydrogen. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 411-417.	0.7	92
38	Molecular Modeling of the Dissociation of Methane Hydrate in Contact with a Silica Surface. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3188-3197.	1.2	92
39	Enhancement of the performance of gas hydrate kinetic inhibitors with polyethylene oxide. <i>Chemical Engineering Science</i> , 2005, 60, 5323-5330.	1.9	91
40	Unusual kinetic inhibitor effects on gas hydrate formation. <i>Chemical Engineering Science</i> , 2006, 61, 1368-1376.	1.9	90
41	Characterization of gas hydrates with PXRD, DSC, NMR, and Raman spectroscopy. <i>Chemical Engineering Science</i> , 2007, 62, 3930-3939.	1.9	89
42	Methane-ethane and methane-propane hydrate formation and decomposition on water droplets. <i>Chemical Engineering Science</i> , 2005, 60, 4203-4212.	1.9	88
43	Kinetic inhibition of natural gas hydrates in saline solutions and heptane. <i>Fuel</i> , 2014, 117, 109-117.	3.4	85
44	Prediction of Gas Hydrate Formation Conditions in the Presence of Methanol, Glycerol, Ethylene Glycol, and Triethylene Glycol with the Statistical Associating Fluid Theory Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 2131-2137.	1.8	84
45	Ice friction: The effects of surface roughness, structure, and hydrophobicity. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	84
46	Natural Gas Hydrate Formation and Decomposition in the Presence of Kinetic Inhibitors. 1. High Pressure Calorimetry. <i>Energy & Fuels</i> , 2011, 25, 4392-4397.	2.5	84
47	Why ice-binding type I antifreeze protein acts as a gas hydrate crystal inhibitor. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9984-9990.	1.3	84
48	Kinetics of Structure H Gas Hydrate. <i>Energy & Fuels</i> , 2005, 19, 1008-1015.	2.5	80
49	Molecular simulation of non-equilibrium methane hydrate decomposition process. <i>Journal of Chemical Thermodynamics</i> , 2012, 44, 13-19.	1.0	79
50	Cationic starches as gas hydrate kinetic inhibitors. <i>Chemical Engineering Science</i> , 2007, 62, 6548-6555.	1.9	76
51	Gas hydrate phase equilibrium in the system methane-carbon dioxide-neohexane and water. <i>Fluid Phase Equilibria</i> , 1999, 158-160, 795-800.	1.4	75
52	Dynamics of Methane-Propane Clathrate Hydrate Crystal Growth from Liquid Water with or without the Presence of n-Heptane. <i>Crystal Growth and Design</i> , 2006, 6, 1428-1439.	1.4	75
53	Evolution of methane during gas hydrate dissociation. <i>Fluid Phase Equilibria</i> , 2013, 358, 114-120.	1.4	75
54	Experimental study on the equilibrium ethane hydrate formation conditions in aqueous electrolyte solutions. <i>Industrial & Engineering Chemistry Research</i> , 1991, 30, 1655-1659.	1.8	74

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55	Storage of CO ₂ in a partially water saturated porous medium at gas hydrate formation conditions. International Journal of Greenhouse Gas Control, 2014, 25, 1-8.	2.3	73
56	Tuning methane content in gas hydrates via thermodynamic modeling and molecular dynamics simulation. Fluid Phase Equilibria, 2008, 263, 6-17.	1.4	70
57	Kinetic inhibitor effects on methane/propane clathrate hydrate-crystal growth at the gas/water and water/n-heptane interfaces. Journal of Crystal Growth, 2008, 310, 1154-1166.	0.7	68
58	Application of the ATR-IR Spectroscopic Technique to the Characterization of Hydrates Formed by CO ₂ , CO ₂ /H ₂ and CO ₂ /H ₂ /C ₃ H ₈ . Journal of Physical Chemistry A, 2009, 113, 6308-6313.	1.1	68
59	Antifreeze proteins as gas hydrate inhibitors. Canadian Journal of Chemistry, 2015, 93, 839-849.	0.6	68
60	Prediction of vapor-liquid equilibrium in water-alcohol-hydrocarbon systems with the dipolar perturbed-chain SAFT equation of state. Fluid Phase Equilibria, 2008, 271, 82-93.	1.4	67
61	Guest-Host Hydrogen Bonding in Structure H Clathrate Hydrates. ChemPhysChem, 2009, 10, 824-829.	1.0	65
62	The relationship between global warming and methane gas hydrates in the earth. Chemical Engineering Science, 1993, 48, 3963-3969.	1.9	63
63	Measurement of structure H hydrate phase equilibrium and the effect of electrolytes. Fluid Phase Equilibria, 1996, 117, 178-185.	1.4	61
64	Influence of Hydrated Silica Surfaces on Interfacial Water in the Presence of Clathrate Hydrate Forming Gases. Journal of Physical Chemistry C, 2012, 116, 24907-24915.	1.5	61
65	Assessing the performance of commercial and biological gas hydrate inhibitors using nuclear magnetic resonance microscopy and a stirred autoclave. Fuel, 2013, 105, 630-635.	3.4	59
66	Vapor-liquid equilibrium of systems containing alcohols, water, carbon dioxide and hydrocarbons using SAFT. Fluid Phase Equilibria, 2004, 224, 111-118.	1.4	58
67	Incipient equilibrium data for propane hydrate formation in aqueous solutions of sodium chloride, potassium chloride and calcium chloride. Journal of Chemical & Engineering Data, 1993, 38, 250-253.	1.0	57
68	Methane conversion rate into structure H hydrate crystals from ice. AIChE Journal, 2007, 53, 2451-2460.	1.8	56
69	Computation of the incipient equilibrium carbon dioxide hydrate formation conditions in aqueous electrolyte solutions. Industrial & Engineering Chemistry Research, 1992, 31, 2232-2237.	1.8	55
70	Concentration of Mechanical Pulp Mill Effluents and NaCl Solutions through Propane Hydrate Formation. Industrial & Engineering Chemistry Research, 1996, 35, 1894-1900.	1.8	54
71	Multiphase equilibrium flash calculations for systems containing gas hydrates. Fluid Phase Equilibria, 1989, 53, 97-104.	1.4	47
72	Effect of polyethylene oxide on gas hydrate phase equilibria. Fluid Phase Equilibria, 1994, 92, 271-288.	1.4	47

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73	Equilibrium Hydrate Formation Data for Carbon Dioxide in Aqueous Glycerol Solutions. <i>Journal of Chemical & Engineering Data</i> , 1996, 41, 11-13.	1.0	47
74	Coal Mine Methane Gas Recovery by Hydrate Formation in a Fixed Bed of Silica Sand Particles. <i>Energy & Fuels</i> , 2013, 27, 4581-4588.	2.5	47
75	The impact of SO ₂ on post combustion carbon dioxide capture in bed of silica sand through hydrate formation. <i>International Journal of Greenhouse Gas Control</i> , 2013, 15, 97-103.	2.3	47
76	Contact Angle Hysteresis of Non-Flattened-Top Micro/Nanostructures. <i>Langmuir</i> , 2014, 30, 3274-3284.	1.6	46
77	Morphology Study of Structure H Hydrate Formation from Water Droplets. <i>Crystal Growth and Design</i> , 2003, 3, 61-66.	1.4	45
78	Gibbs free energy analysis for the supersaturation limits of methane in liquid water and the hydrate-gas-liquid water phase behavior. <i>Fluid Phase Equilibria</i> , 1988, 42, 129-140.	1.4	42
79	High-Performance Supercapacitors from Niobium Nanowire Yarns. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13882-13888.	4.0	39
80	Insights into the Behavior of Biological Clathrate Hydrate Inhibitors in Aqueous Saline Solutions. <i>Crystal Growth and Design</i> , 2014, 14, 2923-2930.	1.4	37
81	Vapor-Liquid Equilibrium of Systems Containing Alcohols Using the Statistical Associating Fluid Theory Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4953-4961.	1.8	36
82	Liquid-Liquid equilibrium data of water with neohexane, methylcyclohexane, tert-butyl methyl ether, n-heptane and vapor-Liquid-Liquid equilibrium with methane. <i>Fluid Phase Equilibria</i> , 2005, 231, 20-26.	1.4	35
83	Accelerated Hydrate Crystal Growth in the Presence of Low Dosage Additives Known as Kinetic Hydrate Inhibitors. <i>Journal of Chemical & Engineering Data</i> , 2015, 60, 336-342.	1.0	33
84	Demonstration of gas-hydrate assisted carbon dioxide storage through horizontal injection in lab-scale reservoir. <i>Journal of Chemical Thermodynamics</i> , 2018, 117, 106-112.	1.0	31
85	Contact angle hysteresis: surface morphology effects. <i>Colloid and Polymer Science</i> , 2013, 291, 317-328.	1.0	30
86	Extraction of methane hydrate energy by carbon dioxide injection-key challenges and a paradigm shift. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2044-2048.	1.7	30
87	Review on Hydrate-Based CH ₄ Separation from Low-Concentration Coalbed Methane in China. <i>Energy & Fuels</i> , 2021, 35, 8494-8509.	2.5	29
88	Molecular dynamics study of structure H clathrate hydrates of methane and large guest molecules. <i>Journal of Chemical Physics</i> , 2008, 128, 194505.	1.2	28
89	Phase Equilibria for the CO ₂ /CH ₄ /N ₂ /H ₂ O System in the Hydrate Region under Conditions Relevant to Storage of CO ₂ in Depleted Natural Gas Reservoirs. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 4061-4067.	1.0	28
90	Rheological evaluation of kinetic hydrate inhibitors in NaCl/n-heptane solutions. <i>AIChE Journal</i> , 2014, 60, 2654-2659.	1.8	27

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91	Superhydrophobic Lignocellulosic Wood Fiber/Mineral Networks. ACS Applied Materials & Interfaces, 2013, 5, 9057-9066.	4.0	26
92	CO ₂ storage capacity in laboratory simulated depleted hydrocarbon reservoirs – Impact of salinity and additives. Journal of Natural Gas Science and Engineering, 2016, 35, 1416-1425.	2.1	26
93	Kinetics of the aggregation of polyethylene oxide at temperatures above the polyethylene oxide–water cloud point temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 204, 23-30.	2.3	25
94	Prediction of multiphase equilibrium using the PC-SAFT equation of state and simultaneous testing of phase stability. Fluid Phase Equilibria, 2011, 302, 169-178.	1.4	25
95	Bacterial Inhibition of Methane Clathrate Hydrates Formed in a Stirred Autoclave. Energy & Fuels, 2012, 26, 7170-7175.	2.5	25
96	Inhibition Activity of Antifreeze Proteins with Natural Gas Hydrates in Saline and the Light Crude Oil Mimic, Heptane. Energy & Fuels, 2014, 28, 3712-3717.	2.5	25
97	Hydrate Kinetics Study in the Presence of Nonaqueous Liquid by Nuclear Magnetic Resonance Spectroscopy and Imaging. Journal of Physical Chemistry B, 2006, 110, 25803-25809.	1.2	24
98	Estimation of multiple binary interaction parameters in equations of state using VLE data. application to the Trebble-Bishnoi equation of state. Fluid Phase Equilibria, 1990, 58, 117-132.	1.4	23
99	Thermodynamic Modeling of Sodium Aluminosilicate Formation in Aqueous Alkaline Solutions. Industrial & Engineering Chemistry Research, 1999, 38, 4959-4965.	1.8	23
100	Surfactant effects on SF ₆ hydrate formation. Journal of Colloid and Interface Science, 2009, 331, 55-59.	5.0	23
101	Kinetic study of semiclathrate hydrates formed with CO ₂ in the presence of tetra-n-butyl ammonium bromide and tetra-n-butyl phosphonium bromide. Energy, 2020, 212, 118697.	4.5	22
102	Inhibiting Effect of Triethylene Glycol and Glycerol on Gas Hydrate Formation Conditions. Journal of Chemical & Engineering Data, 2006, 51, 1811-1813.	1.0	21
103	The ice friction of polymeric substrates. Tribology International, 2012, 55, 59-67.	3.0	21
104	Determination of CO ₂ storage density in a partially water-saturated lab reservoir containing CH ₄ from injection of captured flue gas by gas hydrate crystallization. Canadian Journal of Chemical Engineering, 2017, 95, 69-76.	0.9	21
105	Estimation of binary interaction parameters for equations of state subject to liquid phase stability requirements. Fluid Phase Equilibria, 1989, 53, 81-88.	1.4	20
106	Osmotic coefficient data for Na ₂ SiO ₃ and Na ₂ SiO ₃ –NaOH by an isopiestic method and modeling using Pitzer's model. Fluid Phase Equilibria, 1998, 153, 87-104.	1.4	20
107	Interactions between Structure H Hydrate Formers and Water Molecules. Journal of Physical Chemistry C, 2008, 112, 9106-9113.	1.5	20
108	Ice friction: the effect of thermal conductivity. Journal of Glaciology, 2010, 56, 473-479.	1.1	20

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109	Oil and gas pipelines with hydrophobic surfaces better equipped to deal with gas hydrate flow assurance issues. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 852-861.	2.1	20
110	Incipient Equilibrium Propane Hydrate Formation Conditions in Aqueous Triethylene Glycol Solutions. <i>Journal of Chemical & Engineering Data</i> , 1997, 42, 800-801.	1.0	19
111	Recalcitrance of gas hydrate crystals formed in the presence of kinetic hydrate inhibitors. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 1573-1578.	2.1	19
112	Flocculation of precipitated calcium carbonate (PCC) by cationic tapioca starch with different charge densities. I: Experimental. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 414, 512-519.	2.3	18
113	Comparison of the Luus~Jaakola Optimization and Gauss~Newton Methods for Parameter Estimation in Ordinary Differential Equation Models. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4716-4725.	1.8	17
114	A systematic approach for the efficient estimation of interaction parameters in equations of state using binary vle data. <i>Canadian Journal of Chemical Engineering</i> , 1993, 71, 322-326.	0.9	16
115	Phase separation of polyethylene oxide (PEO)~water solution and its relationship to the flocculating capability of the PEO. <i>Fluid Phase Equilibria</i> , 2002, 194-197, 1059-1066.	1.4	16
116	Dynamic nonisothermal transport in hygroscopic porous media: Moisture diffusion in wood. <i>AICHE Journal</i> , 1992, 38, 1279-1287.	1.8	14
117	Enhancement of the retention performance of the poly(ethylene oxide) ~ tannic acid system by poly(diallyldimethyl ammonium chloride). <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 261-266.	0.9	14
118	Application of the NICA~Donnan approach to calculate equilibrium between proton and metal ions with lignocellulosic materials. <i>Journal of Colloid and Interface Science</i> , 2005, 281, 267-274.	5.0	14
119	Enhanced Barrier Performance of Engineered Paper by Atomic Layer Deposited Al ₂ O ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13590-13600.	4.0	13
120	Superheating Clathrate Hydrates for Anomalous Preservation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17019-17023.	1.5	13
121	Insights into the self-preservation effect of methane hydrate at atmospheric pressure using high pressure DSC. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 86, 103738.	2.1	13
122	Fibre charge from potentiometric titration of kraft pulp and donnan equilibrium theory. <i>Nordic Pulp and Paper Research Journal</i> , 1998, 13, 220-224.	0.3	13
123	A thermodynamics-based model and data for Ca, Mg, and Na ion partitioning in kraft pulp fibre suspensions. <i>Nordic Pulp and Paper Research Journal</i> , 2000, 15, 155-159.	0.3	13
124	The use of clathrate hydrates for the concentration of mechanical pulp mill effluents. <i>Nordic Pulp and Paper Research Journal</i> , 1995, 10, 110-113.	0.3	12
125	Kinetics of Ethane Hydrate Growth on Latex Spheres Measured by a Light Scattering Technique. <i>Annals of the New York Academy of Sciences</i> , 2006, 912, 576-582.	1.8	12
126	Simultaneous regression of binary VLE and VLLE data. <i>Fluid Phase Equilibria</i> , 1990, 61, 1-15.	1.4	11

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127	Surface Analysis of Ground Calcium Carbonate Filler Treated with Dissolution Inhibitor. <i>Industrial & Engineering Chemistry Research</i> , 2001, 40, 2445-2451.	1.8	11
128	Flocculation of precipitated calcium carbonate (PCC) by cationic tapioca starch with different charge densities. II: Population balance modeling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 414, 520-526.	2.3	11
129	The role of poly (ethylene oxide)â€water solution phase behaviour in the retention of fibre fines and clay. <i>Canadian Journal of Chemical Engineering</i> , 1997, 75, 161-166.	0.9	10
130	Thermodynamics and kinetics of CO ₂ hydrate formation in the presence of cellulose nanocrystals with statistical treatment of data. <i>Fluid Phase Equilibria</i> , 2021, 529, 112863.	1.4	10
131	Temperature-dependent behavior of polyethylene oxide in papermaking suspensions. <i>AIChE Journal</i> , 1997, 43, 2353-2358.	1.8	9
132	A Calorimetric Study on the Phase Behavior of Tetra- <i>n</i> -butyl Phosphonium Bromide + CO ₂ Semiclathrate Hydrate and Evaluation of CO ₂ Consumptionâ€™Impact of a Surfactant. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 4228-4235.	1.0	9
133	Osmotic coefficient data for NaOHâ€NaClâ€NaAl(OH) ₄ â€H ₂ O system measured by an isopiestic method and modeled using Pitzer's model at 298.15 K. <i>Fluid Phase Equilibria</i> , 1999, 155, 251-259.	1.4	8
134	Ice friction of ultra-high molecular weight polyethylene: The effects of fluorine additives and plasma (PECVD) treatment. <i>Tribology International</i> , 2013, 57, 177-183.	3.0	8
135	Sodium aluminosilicate crystal formation in alkaline solutions relevant to closed cycle kraft pulp mills. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 915-920.	0.9	7
136	Interaction Parameter Estimation in Cubic Equations of State Using Binary Phase Equilibrium and Critical Point Dataâ€™. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 1613-1618.	1.8	7
137	Interaction of precipitated calcium carbonate (PCC) with starch in distilled and deionized water (DDW) and process water (PW). <i>Nordic Pulp and Paper Research Journal</i> , 2006, 21, 716-723.	0.3	7
138	Kinetics of the flocculation of clay particles by polyethylene oxide (PEO) at temperatures above the PEO-water cloud point temperature. <i>Nordic Pulp and Paper Research Journal</i> , 2000, 15, 387-394.	0.3	6
139	Elucidation of the mechanistic aspects of chemical EOR in viscous oil systems. <i>Journal of Petroleum Science and Engineering</i> , 2022, 216, 110846.	2.1	6
140	Coating and paper structure. <i>Nordic Pulp and Paper Research Journal</i> , 2006, 21, 659-664.	0.3	5
141	Environmental Aspects of Clathrate Hydrates. <i>Annals of the New York Academy of Sciences</i> , 1994, 715, 270-282.	1.8	4
142	Pre and Post Combustion Capture of Carbon Dioxide via Hydrate Formation. , 2006, , .		4
143	A general treatment of polar-polarizable systems for an equation of state. <i>Chemical Engineering Research and Design</i> , 2014, 92, 2936-2946.	2.7	4
144	Insights into kaolin clay flocculation by cationic tapioca starch by analysis of variance and floc fractal dimension. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 628, 127357.	2.3	4

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145	Optimization of chemical use for highly filled mechanical grade papers with precipitated calcium carbonate. <i>BioResources</i> , 2011, 6, 656-671.	0.5	4
146	A Dual-Bed Cyclic Gas Hydrate Process (DB-CGHP) for Carbon Dioxide Capture and Other Gas Separations. <i>Energy & Fuels</i> , 2022, 36, 10610-10617.	2.5	4
147	Crystallization of Mechanical Pulp Mill Effluents through Hydrate Formation for the Recovery of Water. <i>ACS Symposium Series</i> , 1994, , 114-123.	0.5	3
148	Microparticle Retention Aid Systems in Mechanical Pulp Suspensions. <i>Recent Patents on Engineering</i> , 2007, 1, 177-186.	0.3	3
149	Iron, Manganese and Copper Equilibria with Wood Fibres in Single Salt Aqueous Suspensions. <i>Canadian Journal of Chemical Engineering</i> , 2008, 83, 537-547.	0.9	3
150	Energy, Environment, and Naturally Occurring Methane Gas Hydrate: Connections. , 2001, , 181-194.		3
151	A review of the contributions of <scp>P. Raj Bishnoi</scp> to chemical engineering. <i>Canadian Journal of Chemical Engineering</i> , 2023, 101, 565-582.	0.9	3
152	Sequestering of heavy metal ions from aqueous solutions by using a lignocellulosic material. <i>International Journal of Environment and Pollution</i> , 2008, 32, 509.	0.2	2
153	Opaque and translucent films from aqueous microfiber suspensions by evaporative self-assembly. <i>Physics of Fluids</i> , 2021, 33, 032012.	1.6	2
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