Hassan Pahlavanzadeh

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effects of Graphene Oxide Nanosheets and Al ₂ O ₃ Nanoparticles on CO ₂ Uptake in Semiâ€clathrate Hydrates. Chemical Engineering and Technology, 2021, 44, 48-57.	1.5	27
2	Response to "Comment on â€~CFD Modeling of CO2 Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine-Ionic Liquids'― Industrial & Engineering Chemistry Research, 2021, 60, 1503-1504.	3.7	0
3	Experimental study and kinetic modeling on THF hydrate formation under a static electric field. Journal of Natural Gas Science and Engineering, 2021, 95, 104162.	4.4	9
4	Thermodynamic Investigation of the Effect of Electric Field on Solid–Liquid Equilibrium. Journal of Physical Chemistry B, 2021, 125, 1271-1281.	2.6	6
5	Experimental measurements and thermodynamic modeling of hydrate dissociation conditions in CO2†+†THF†+†NaCl†+†water systems. Journal of Chemical Thermodynamics, 2020, 141, 105956.	2.0	14
6	Experimental measurement and thermodynamic modeling of hydrate dissociation conditions for (CO2 + TBAC + cyclopentane + water) system. Journal of Chemical Thermodynamics, 2020, 144, 1	.03979.	11
7	Thermodynamic modeling and experimental measurement of semi-clathrate hydrate phase equilibria for CH4 in the presence of cyclohexane (CH) and tetra-n-butyl ammonium bromide (TBAB) mixture. Journal of Natural Gas Science and Engineering, 2020, 75, 103128.	4.4	23
8	Hydrate Phase Equilibria of Methane + Mixed (TBAB + THF) in the Presence and Absence of NaCl and/or MgCl ₂ Aqueous Solutions. Journal of Chemical & Engineering Data, 2020, 65, 217-221.	1.9	18
9	Adsorption of Nickel, Ni(II), in Aqueous Solution by Modified Zeolite as a Cation-Exchange Adsorbent. Journal of Chemical & Engineering Data, 2020, 65, 185-197.	1.9	38
10	Mathematical modeling of CO2 membrane absorption system using ionic liquid solutions. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107743.	3.6	14
11	Experimental Study on the Effect of Salinity and Amount of Hydrate Conversion on Desalination Parameters Based on R410a Hydrate Formation. Journal of Chemical & Engineering Data, 2020, 65, 5037-5045.	1.9	12
12	Investigation of the Effect of NaCl on the Kinetics of R410a Hydrate Formation in the Presence and Absence of Cyclopentane with Potential Application in Hydrate-Based Desalination. Industrial & Engineering Chemistry Research, 2020, 59, 14115-14125.	3.7	28
13	Hydrate Stability Conditions of CO ₂ + TBPB + Cyclopentane + Water System: Experimental Measurements and Thermodynamic Modeling. Journal of Chemical & Engineering Data, 2020, 65, 4092-4099.	1.9	6
14	The novel usage of dead biomass of green algae of Schizomeris leibleinii for biosorption of copper(II) from aqueous solutions: Equilibrium, kinetics and thermodynamics. Journal of Environmental Chemical Engineering, 2020, 8, 104272.	6.7	40
15	Hydrate Phase Equilibria of Methane + TBAC + Water System in the Presence and Absence of NaCl and/or MgCl ₂ . Journal of Chemical & Engineering Data, 2020, 65, 4684-4691.	1.9	9
16	Phase Stability Conditions of the Methane + Tetrabutylphosphonium Bromide + Water Semiclathrate Hydrate System in the Presence and Absence of NaCl and/or MgCl ₂ : Experimental Measurements and Thermodynamic Modeling. Energy & Fuels, 2020, 34, 14034-14045.	5.1	4
17	CFD Modeling of CO ₂ Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine–Ionic Liquids. Industrial & Engineering Chemistry Research, 2020, 59, 18629-18639.	3.7	10
18	Hydrate Dissociation Conditions of CH ₄ in the Presence of TBANO ₃ and Cyclopentane Promoter Mixture: Thermodynamic Modeling and Experimental Measurement. Journal of Chemical & Engineering Data, 2020, 65, 1927-1935.	1.9	20

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19	Hydrate formation under static and pulsed electric fields. Journal of Natural Gas Science and Engineering, 2020, 77, 103232.	4.4	15
20	Experimental study and kinetic modeling of R410a hydrate formation in presence of SDS, tween 20, and graphene oxide nanosheets with application in cold storage. Journal of Molecular Liquids, 2020, 304, 112665.	4.9	27
21	Experimental and modelling studies on the effects of nanofluids (SiO2, Al2O3, and CuO) and surfactants (SDS and CTAB) on CH4 and CO2 clathrate hydrates formation. Fuel, 2019, 253, 1392-1405.	6.4	50
22	Clathrate hydrate formation of CO2 in the presence of water miscible (1,4-dioxane) and partially water miscible (cyclopentane) organic compounds: Experimental measurement and thermodynamic modeling. Journal of Petroleum Science and Engineering, 2019, 179, 465-473.	4.2	10
23	Experimental measurement of carbon dioxide clathrate hydrate in the presence of adamantane and other water soluble and insoluble additives. Journal of Chemical Thermodynamics, 2019, 135, 352-358.	2.0	21
24	Study of MoO3-Î ³ Al2O3 catalysts behavior in selective catalytic reduction of SO2 toxic gas to sulfur with CH4. Environmental Science and Pollution Research, 2019, 26, 9686-9696.	5.3	18
25	Experimental Measurements and Thermodynamic Modeling of Hydrate Dissociation Conditions for Methane + TBAB + NaCl, MgCl ₂ , or NaCl-MgCl ₂ + Water Systems. Industrial & Engineering Chemistry Research, 2019, 58, 23405-23416.	3.7	17
26	Selective catalytic reduction of SO2 with methane for recovery of elemental sulfur over nickel-alumina catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2018, 124, 669-682.	1.7	23
27	Preparation and characterization of magnetic keratin nanocomposite. Materials Chemistry and Physics, 2018, 215, 40-45.	4.0	6
28	Predicting the rock wettability changes using solutions with different pH, through streaming potential measurement. Journal of Petroleum Science and Engineering, 2018, 167, 20-27.	4.2	13
29	Volume expansion and vapour–liquid equilibrium of toluene and ethanol with carbon dioxide at high pressures for the selection of optimum operational condition in the GAS process. Physics and Chemistry of Liquids, 2018, 56, 164-175.	1.2	7
30	Synthesis of silver nanoparticles by gelcasting using a low toxic monomer and optimization of gelation time using the Taguchi method. Particulate Science and Technology, 2017, 35, 298-303.	2.1	0
31	Study of purge angle effects on the desiccant wheel performance. Energy Conversion and Management, 2017, 137, 12-20.	9.2	19
32	Experimental and theoretical investigation of methane hydrate induction time in the presence of triangular silver nanoparticles. Chemical Engineering Research and Design, 2017, 120, 325-332.	5.6	45
33	Nucleation of ethane hydrate in water containing silver nanoparticles. Materials and Design, 2017, 126, 190-196.	7.0	34
34	Using heat pipe to make isotherm condition in catalytic converters of sulfuric acid plants. Heat and Mass Transfer, 2017, 53, 2693-2700.	2.1	1
35	Extra-framework charge and impurities effect, Grand Canonical Monte Carlo and volumetric measurements of CO ₂ /CH ₄ /N ₂ uptake on NaX molecular sieve. Separation Science and Technology, 2017, 52, 2499-2512.	2.5	16
36	Thermal conductivity, viscosity, and electrical conductivity of iron oxide with a cloud fractal structure. Heat and Mass Transfer, 2017, 53, 1343-1354.	2.1	10

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37	Preparation, Characterization and Optimization of High Surface Area Ce-La-Cu Ternary Oxide Nanoparticles. E-Journal of Surface Science and Nanotechnology, 2017, 15, 87-92.	0.4	5
38	Experimental measurement and phase equilibria calculation for ternary systems of carbon dioxide+ toluene+naphthalene and carbon dioxide+ ethanol+acridine, applicable for fine particle production in GAS process. Thermochimica Acta, 2016, 638, 69-79.	2.7	8
39	Molecular simulation, experiments and modelling of single adsorption capacity of 4A molecular sieve for CO ₂ –CH ₄ separation. Separation Science and Technology, 2016, 51, 2318-2325.	2.5	20
40	Kinetic study of methane hydrate formation in the presence of copper nanoparticles and CTAB. Journal of Natural Gas Science and Engineering, 2016, 34, 803-810.	4.4	69
41	Investigation of streaming potential coupling coefficients and zeta potential at low and high salinity conditions: Experimental and modeling approaches. Journal of Petroleum Science and Engineering, 2016, 145, 137-147.	4.2	15
42	Clathrate hydrate formation in (methane, carbon dioxide or nitrogen + tetrahydropyran or furan +) Tj ETQq0 0 0 168-174.	rgBT /Ove 2.0	erlock 10 Tf 50 20
43	Exergy Performance Analysis and Optimization of a Desiccant Wheel System. Journal of Thermal Science and Engineering Applications, 2015, 7, .	1.5	24
44	Investigation of methanol oxidation on a highly active and stable Pt–Sn electrocatalyst supported on carbon–polyaniline composite for application in a passive direct methanol fuel cell. Materials Research Bulletin, 2015, 68, 166-178.	5.2	47
45	Study of cobalt (II) biosorption on Sargassum sp. by experimental design methodology. International Journal of Environmental Science and Technology, 2015, 12, 1907-1922.	3.5	19
46	Thermodynamic Model for Prediction of Phase Equilibria of Clathrate Hydrates in the Presence of Water-Insoluble Organic Compounds. Chemical Engineering Communications, 2015, 202, 806-814.	2.6	7
47	Application of the perturbed chain-SAFT equation of state for modeling CO2 solubility in aqueous monoethanolamine solutions. Chemical Engineering Research and Design, 2015, 93, 789-799.	5.6	15
48	Modeling of CO2Removal From Gas Mixture by 2-amino-2-methyl-1-propanol (AMP) Using the Deshmakh-Mather Model. Petroleum Science and Technology, 2014, 32, 1921-1931.	1.5	1
49	Energy approach analysis of desiccant wheel operation. Energy Systems, 2014, 5, 551-569.	3.0	15
50	Syngas Production from Reforming of Methane with CO2 and O2 over LaNi1–xCoxO3 Perovskites. International Journal of Chemical Reactor Engineering, 2014, 12, 25-34.	1.1	3
51	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. Journal of Membrane Science, 2014, 472, 91-101.	8.2	47
52	Statistical evaluation of a liquid desiccant dehumidification system using RSM and theoretical study based on the effectiveness NTU model. Journal of Industrial and Engineering Chemistry, 2014, 20, 2975-2983.	5.8	30
53	Effects of Fe substitutions by Ni in La–Ni–O perovskite-type oxides in reforming of methane with CO2 and O2. International Journal of Hydrogen Energy, 2013, 38, 10407-10416.	7.1	57
54	Modeling CO2 solubility in Aqueous Methyldiethanolamine Solutions by Perturbed Chain-SAFT Equation of State. Journal of Chemical Thermodynamics, 2013, 59, 214-221.	2.0	28

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55	Investigation of carbon monoxide tolerance of platinum nanoparticles in the presence of optimum ratio of doped polyaniline with para toluene sulfonic acid and their utilization in a real passive direct methanol fuel cell. Electrochimica Acta, 2013, 97, 216-225.	5.2	65
56	Hydrate phase equilibria of furan, acetone, 1,4-dioxane, TBAC and TBAF. Journal of Chemical Thermodynamics, 2013, 64, 151-158.	2.0	41
57	Optimal oxygen concentration strategy through an isothermal oxidative coupling of methane plug flow reactor to obtain a high yield of C2 hydrocarbons. Korean Journal of Chemical Engineering, 2013, 30, 1213-1221.	2.7	1
58	A Study on the Optimization of an Air Dehumidification Desiccant System. Journal of Thermal Science and Engineering Applications, 2013, 5, .	1.5	8
59	Experimental and Theoretical Study of Liquid Desiccant Dehumidification System by Using the Effectiveness Model. Journal of Thermal Science and Engineering Applications, 2012, 4, .	1.5	4
60	Synthesis, characterization and catalytic study of Sm doped LaNiO3 nanoparticles in reforming of methane with CO2 and O2. International Journal of Hydrogen Energy, 2012, 37, 9977-9984.	7.1	43
61	Entropy Generation in Liquid Desiccant Dehumidification System. Energy Procedia, 2012, 14, 1855-1860.	1.8	7
62	Biosorption of strontium from aqueous solution by fungus Aspergillus terreus. Environmental Science and Pollution Research, 2012, 19, 2408-2418.	5.3	38
63	Thermodynamic modeling of pressure–temperature phase diagrams of binary clathrate hydrates of methane, carbon dioxide or nitrogen+tetrahydrofuran, 1,4-dioxane or acetone. Fluid Phase Equilibria, 2012, 320, 32-37.	2.5	40
64	Synthesize of polypyrrole nanocomposite and its application for nitrate removal from aqueous solution. Journal of Industrial and Engineering Chemistry, 2012, 18, 948-956.	5.8	29
65	Experimental analysis and modeling of CO2 solubility in AMP (2-amino-2-methyl-1-propanol) at low CO2 partial pressure using the models of Deshmukh–Mather and the artificial neural network. Journal of Chemical Thermodynamics, 2011, 43, 1775-1783.	2.0	47
66	Zn(II) ion removal from aqueous solution by using a polyaniline composite. Journal of Vinyl and Additive Technology, 2011, 17, 138-145.	3.4	10
67	Influence of different combinations of aluminum and iron electrode on electrocoagulation efficiency: Application to the treatment of paper mill wastewater. Desalination, 2011, 265, 199-205.	8.2	200
68	10.2478/s11814-009-0185-8., 2011, 26, 1112.		0
69	Performance assessment of hybrid desiccant cooling system at various climates. Energy Efficiency, 2010, 3, 177-187.	2.8	14
70	Biosorption of nickel(II) from aqueous solution by brown algae: Equilibrium, dynamic and thermodynamic studies. Journal of Hazardous Materials, 2010, 175, 304-310.	12.4	161
71	Fluorination of UF4 in a mini-tapered fluidized bed and mathematical modeling. Annals of Nuclear Energy, 2010, 37, 1241-1247.	1.8	3
72	InÂsitu recovery of 2,3-butanediol from fermentation by liquid–liquid extraction. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 873-873.	3.0	0

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73	Introduction of a new definition for effectiveness of desiccant wheels. Energy, 2009, 34, 797-803.	8.8	84
74	Measurement and modeling of solubility of H2S in aqueous diisopropanolamine solution. Korean Journal of Chemical Engineering, 2009, 26, 1112-1118.	2.7	14
75	(Liquid+liquid) phase equilibria for (water+2,3-butanediol+oleyl alcohol) at T=(300.2, 307.2, and 314.2)K. Journal of Chemical Thermodynamics, 2009, 41, 150-154.	2.0	14
76	Equilibrium, kinetic and thermodynamic study of the biosorption of uranium onto Cystoseria indica algae. Journal of Hazardous Materials, 2008, 150, 612-618.	12.4	132
77	Kinetics study of the fluorination of uranium tetrafluoride in a fluidized bed reactor. Annals of Nuclear Energy, 2008, 35, 704-707.	1.8	5
78	Two-phase modeling of a gas phase fluidized bed reactor for the fluorination of uranium tetrafluoride. Annals of Nuclear Energy, 2008, 35, 2321-2326.	1.8	2
79	Determination of optimal temperature profile in an OCM plug flow reactor for the maximizing of ethylene production. Fuel Processing Technology, 2008, 89, 667-677.	7.2	12
80	Modeling and Simulation of the CO2 Absorption Column with DGA Solvent Using Kent-Eisenberg Model. Journal of Chemical Engineering of Japan, 2008, 41, 165-173.	0.6	1
81	Experimental study of thermo-hydraulic and fouling performance of enhanced heat exchangers. International Communications in Heat and Mass Transfer, 2007, 34, 907-916.	5.6	9
82	Phase Equilibria of a Ternary System of Water + Propionic Acid + Diethyl Ketone. Journal of Chemical Engineering of Japan, 2007, 40, 281-287.	0.6	13
83	Correlation and Prediction of the Solubility of CO2 in a Mixture of Organic Solution Solvents. Theoretical Foundations of Chemical Engineering, 2005, 39, 240-245.	0.7	8
84	DETERMINATION OF PARAMETERS AND PRETREATMENT SOLUTION FOR GRAPE DRYING. Drying Technology, 2001, 19, 217-226.	3.1	48
85	Development of a novel method for Cu (II) sorption from aqueous solution and modeling by artificial neural networks (ANN). , 0, 115, 213-226.		4