

Hassan Pahlavanzadeh

List of Publications by Year in descending order

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85
papers

2,108
citations

236612

25
h-index

264894

42
g-index

86
all docs

86
docs citations

86
times ranked

2168
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Graphene Oxide Nanosheets and Al_2O_3 Nanoparticles on CO_2 Uptake in Semi-clathrate Hydrates. <i>Chemical Engineering and Technology</i> , 2021, 44, 48-57.	0.9	27
2	Response to "Comment on "CFD Modeling of CO_2 Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine-Ionic Liquids" Industrial & Engineering Chemistry Research, 2021, 60, 1503-1504.	1.8	0
3	Experimental study and kinetic modeling on THF hydrate formation under a static electric field. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104162.	2.1	9
4	Thermodynamic Investigation of the Effect of Electric Field on Solid-Liquid Equilibrium. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1271-1281.	1.2	6
5	Experimental measurements and thermodynamic modeling of hydrate dissociation conditions in CO_2 -THF-NaCl-water systems. <i>Journal of Chemical Thermodynamics</i> , 2020, 141, 105956.	1.0	14
6	Experimental measurement and thermodynamic modeling of hydrate dissociation conditions for (CO_2 -TBAC-cyclopentane-water) system. <i>Journal of Chemical Thermodynamics</i> , 2020, 144, 105979.	1.0	11
7	Thermodynamic modeling and experimental measurement of semi-clathrate hydrate phase equilibria for CH_4 in the presence of cyclohexane (CH) and tetra-n-butyl ammonium bromide (TBAB) mixture. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103128.	2.1	23
8	Hydrate Phase Equilibria of Methane + Mixed (TBAB + THF) in the Presence and Absence of NaCl and/or $MgCl_2$ Aqueous Solutions. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 217-221.	1.0	18
9	Adsorption of Nickel, Ni(II), in Aqueous Solution by Modified Zeolite as a Cation-Exchange Adsorbent. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 185-197.	1.0	38
10	Mathematical modeling of CO_2 membrane absorption system using ionic liquid solutions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 147, 107743.	1.8	14
11	Experimental Study on the Effect of Salinity and Amount of Hydrate Conversion on Desalination Parameters Based on R410a Hydrate Formation. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 5037-5045.	1.0	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. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14115-14125.	1.8	28
13	Hydrate Stability Conditions of CO_2 + TBPB + Cyclopentane + Water System: Experimental Measurements and Thermodynamic Modeling. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4092-4099.	1.0	6
14	The novel usage of dead biomass of green algae of <i>Schizomeris leibleinii</i> for biosorption of copper(II) from aqueous solutions: Equilibrium, kinetics and thermodynamics. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104272.	3.3	40
15	Hydrate Phase Equilibria of Methane + TBAC + Water System in the Presence and Absence of NaCl and/or $MgCl_2$. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4684-4691.	1.0	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. <i>Energy & Fuels</i> , 2020, 34, 14034-14045.	2.5	4
17	CFD Modeling of CO_2 Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine-Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18629-18639.	1.8	10
18	Hydrate Dissociation Conditions of CH_4 in the Presence of TBANO ₃ and Cyclopentane Promoter Mixture: Thermodynamic Modeling and Experimental Measurement. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 1927-1935.	1.0	20

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19	Hydrate formation under static and pulsed electric fields. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103232.	2.1	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. <i>Journal of Molecular Liquids</i> , 2020, 304, 112665.	2.3	27
21	Experimental and modelling studies on the effects of nanofluids (SiO ₂ , Al ₂ O ₃ , and CuO) and surfactants (SDS and CTAB) on CH ₄ and CO ₂ clathrate hydrates formation. <i>Fuel</i> , 2019, 253, 1392-1405.	3.4	50
22	Clathrate hydrate formation of CO ₂ in the presence of water miscible (1,4-dioxane) and partially water miscible (cyclopentane) organic compounds: Experimental measurement and thermodynamic modeling. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 465-473.	2.1	10
23	Experimental measurement of carbon dioxide clathrate hydrate in the presence of adamantane and other water soluble and insoluble additives. <i>Journal of Chemical Thermodynamics</i> , 2019, 135, 352-358.	1.0	21
24	Study of MoO ₃ -Al ₂ O ₃ catalysts behavior in selective catalytic reduction of SO ₂ toxic gas to sulfur with CH ₄ . <i>Environmental Science and Pollution Research</i> , 2019, 26, 9686-9696.	2.7	18
25	Experimental Measurements and Thermodynamic Modeling of Hydrate Dissociation Conditions for Methane + TBAB + NaCl, MgCl ₂ , or NaCl-MgCl ₂ + Water Systems. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 23405-23416.	1.8	17
26	Selective catalytic reduction of SO ₂ with methane for recovery of elemental sulfur over nickel-alumina catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2018, 124, 669-682.	0.8	23
27	Preparation and characterization of magnetic keratin nanocomposite. <i>Materials Chemistry and Physics</i> , 2018, 215, 40-45.	2.0	6
28	Predicting the rock wettability changes using solutions with different pH, through streaming potential measurement. <i>Journal of Petroleum Science and Engineering</i> , 2018, 167, 20-27.	2.1	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. <i>Physics and Chemistry of Liquids</i> , 2018, 56, 164-175.	0.4	7
30	Synthesis of silver nanoparticles by gelcasting using a low toxic monomer and optimization of gelation time using the Taguchi method. <i>Particulate Science and Technology</i> , 2017, 35, 298-303.	1.1	0
31	Study of purge angle effects on the desiccant wheel performance. <i>Energy Conversion and Management</i> , 2017, 137, 12-20.	4.4	19
32	Experimental and theoretical investigation of methane hydrate induction time in the presence of triangular silver nanoparticles. <i>Chemical Engineering Research and Design</i> , 2017, 120, 325-332.	2.7	45
33	Nucleation of ethane hydrate in water containing silver nanoparticles. <i>Materials and Design</i> , 2017, 126, 190-196.	3.3	34
34	Using heat pipe to make isotherm condition in catalytic converters of sulfuric acid plants. <i>Heat and Mass Transfer</i> , 2017, 53, 2693-2700.	1.2	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. <i>Separation Science and Technology</i> , 2017, 52, 2499-2512.	1.3	16
36	Thermal conductivity, viscosity, and electrical conductivity of iron oxide with a cloud fractal structure. <i>Heat and Mass Transfer</i> , 2017, 53, 1343-1354.	1.2	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.	0.1	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.	1.2	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.	1.3	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.	2.1	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.	2.1	15
42	Clathrate hydrate formation in (methane, carbon dioxide or nitrogen + tetrahydropyran or furan +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 168-174.	1.0	20
43	Exergy Performance Analysis and Optimization of a Desiccant Wheel System. Journal of Thermal Science and Engineering Applications, 2015, 7, .	0.8	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.	2.7	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.	1.8	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.	1.5	7
47	Application of the perturbed chain-SAFT equation of state for modeling CO ₂ solubility in aqueous monoethanolamine solutions. Chemical Engineering Research and Design, 2015, 93, 789-799.	2.7	15
48	Modeling of CO ₂ Removal From Gas Mixture by 2-amino-2-methyl-1-propanol (AMP) Using the Deshmakh-Mather Model. Petroleum Science and Technology, 2014, 32, 1921-1931.	0.7	1
49	Energy approach analysis of desiccant wheel operation. Energy Systems, 2014, 5, 551-569.	1.8	15
50	Syngas Production from Reforming of Methane with CO ₂ and O ₂ over LaNi _{1-x} CoxO ₃ Perovskites. International Journal of Chemical Reactor Engineering, 2014, 12, 25-34.	0.6	3
51	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. Journal of Membrane Science, 2014, 472, 91-101.	4.1	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.	2.9	30
53	Effects of Fe substitutions by Ni in LaNiO perovskite-type oxides in reforming of methane with CO ₂ and O ₂ . International Journal of Hydrogen Energy, 2013, 38, 10407-10416.	3.8	57
54	Modeling CO ₂ solubility in Aqueous Methyldiethanolamine Solutions by Perturbed Chain-SAFT Equation of State. Journal of Chemical Thermodynamics, 2013, 59, 214-221.	1.0	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. <i>Electrochimica Acta</i> , 2013, 97, 216-225.	2.6	65
56	Hydrate phase equilibria of furan, acetone, 1,4-dioxane, TBAC and TBAF. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 151-158.	1.0	41
57	Optimal oxygen concentration strategy through an isothermal oxidative coupling of methane plug flow reactor to obtain a high yield of C2 hydrocarbons. <i>Korean Journal of Chemical Engineering</i> , 2013, 30, 1213-1221.	1.2	1
58	A Study on the Optimization of an Air Dehumidification Desiccant System. <i>Journal of Thermal Science and Engineering Applications</i> , 2013, 5, .	0.8	8
59	Experimental and Theoretical Study of Liquid Desiccant Dehumidification System by Using the Effectiveness Model. <i>Journal of Thermal Science and Engineering Applications</i> , 2012, 4, .	0.8	4
60	Synthesis, characterization and catalytic study of Sm doped LaNiO ₃ nanoparticles in reforming of methane with CO ₂ and O ₂ . <i>International Journal of Hydrogen Energy</i> , 2012, 37, 9977-9984.	3.8	43
61	Entropy Generation in Liquid Desiccant Dehumidification System. <i>Energy Procedia</i> , 2012, 14, 1855-1860.	1.8	7
62	Biosorption of strontium from aqueous solution by fungus <i>Aspergillus terreus</i> . <i>Environmental Science and Pollution Research</i> , 2012, 19, 2408-2418.	2.7	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. <i>Fluid Phase Equilibria</i> , 2012, 320, 32-37.	1.4	40
64	Synthesize of polypyrrole nanocomposite and its application for nitrate removal from aqueous solution. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 948-956.	2.9	29
65	Experimental analysis and modeling of CO ₂ solubility in AMP (2-amino-2-methyl-1-propanol) at low CO ₂ partial pressure using the models of Deshmukh-Mather and the artificial neural network. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1775-1783.	1.0	47
66	Zn(II) ion removal from aqueous solution by using a polyaniline composite. <i>Journal of Vinyl and Additive Technology</i> , 2011, 17, 138-145.	1.8	10
67	Influence of different combinations of aluminum and iron electrode on electrocoagulation efficiency: Application to the treatment of paper mill wastewater. <i>Desalination</i> , 2011, 265, 199-205.	4.0	200
68	10.2478/s11814-009-0185-8. , 2011, 26, 1112.		0
69	Performance assessment of hybrid desiccant cooling system at various climates. <i>Energy Efficiency</i> , 2010, 3, 177-187.	1.3	14
70	Biosorption of nickel(II) from aqueous solution by brown algae: Equilibrium, dynamic and thermodynamic studies. <i>Journal of Hazardous Materials</i> , 2010, 175, 304-310.	6.5	161
71	Fluorination of UF ₄ in a mini-tapered fluidized bed and mathematical modeling. <i>Annals of Nuclear Energy</i> , 2010, 37, 1241-1247.	0.9	3
72	In-situ recovery of 2,3-butanediol from fermentation by liquid-liquid extraction. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 873-873.	1.4	0

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73	Introduction of a new definition for effectiveness of desiccant wheels. Energy, 2009, 34, 797-803.	4.5	84
74	Measurement and modeling of solubility of H ₂ S in aqueous diisopropanolamine solution. Korean Journal of Chemical Engineering, 2009, 26, 1112-1118.	1.2	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.	1.0	14
76	Equilibrium, kinetic and thermodynamic study of the biosorption of uranium onto <i>Cystoseria indica</i> algae. Journal of Hazardous Materials, 2008, 150, 612-618.	6.5	132
77	Kinetics study of the fluorination of uranium tetrafluoride in a fluidized bed reactor. Annals of Nuclear Energy, 2008, 35, 704-707.	0.9	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.	0.9	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.	3.7	12
80	Modeling and Simulation of the CO ₂ Absorption Column with DGA Solvent Using Kent-Eisenberg Model. Journal of Chemical Engineering of Japan, 2008, 41, 165-173.	0.3	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.	2.9	9
82	Phase Equilibria of a Ternary System of Water + Propionic Acid + Diethyl Ketone. Journal of Chemical Engineering of Japan, 2007, 40, 281-287.	0.3	13
83	Correlation and Prediction of the Solubility of CO ₂ in a Mixture of Organic Solution Solvents. Theoretical Foundations of Chemical Engineering, 2005, 39, 240-245.	0.2	8
84	DETERMINATION OF PARAMETERS AND PRETREATMENT SOLUTION FOR GRAPE DRYING. Drying Technology, 2001, 19, 217-226.	1.7	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