Hassan Pahlavanzadeh

List of Publications by Year
in descending order

85 papers	2,108 citations	236925 25 h-index	265206 42 g-index
86 all docs	86 docs citations	86 times ranked	2168 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Introduction of a new definition for effectiveness of desiccant wheels. Energy, 2009, 34, 797-803.	8.8	84
5	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
6	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
7	Effects of Fe substitutions by Ni in La–Ni–O perovskite-type oxides in reforming of methane with CO_2 and O_2. International Journal of Hydrogen Energy, 2013, 38, 10407-10416.	7.1	57
8	Experimental and modelling studies on the effects of nanofluids (SiO_2, Al_2O_3, and CuO) and surfactants (SDS and CTAB) on CH_4 and CO_2 clathrate hydrates formation. Fuel, 2019, 253, 1392-1405.	6.4	50
9	DETERMINATION OF PARAMETERS AND PRETREATMENT SOLUTION FOR GRAPE DRYING. Drying Technology, 2001, 19, 217-226.	3.1	48
10	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. Journal of Chemical Thermodynamics, 2011, 43, 1775-1783.	2.0	47
11	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. Journal of Membrane Science, 2014, 472, 91-101.	8.2	47
12	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
13	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
14	Synthesis, characterization and catalytic study of Sm doped $LaNiO_3$ nanoparticles in reforming of methane with CO_2 and O_2. International Journal of Hydrogen Energy, 2012, 37, 9977-9984.	7.1	43
15	Hydrate phase equilibria of furan, acetone, 1,4-dioxane, TBAC and TBAF. Journal of Chemical Thermodynamics, 2013, 64, 151-158.	2.0	41
16	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
17	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
18	Biosorption of strontium from aqueous solution by fungus Aspergillus terreus. Environmental Science and Pollution Research, 2012, 19, 2408-2418.	5.3	38

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19	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
20	Nucleation of ethane hydrate in water containing silver nanoparticles. Materials and Design, 2017, 126, 190-196.	7.0	34
21	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
22	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
23	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
24	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
25	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
26	Effects of Graphene Oxide Nanosheets and Al_2O_3 Nanoparticles on CO_2 Uptake in Semiâ€clathrate Hydrates. Chemical Engineering and Technology, 2021, 44, 48-57.	1.5	27
27	Exergy Performance Analysis and Optimization of a Desiccant Wheel System. Journal of Thermal Science and Engineering Applications, 2015, 7, .	1.5	24
28	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
29	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
30	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
31	Molecular simulation, experiments and modelling of single adsorption capacity of 4A molecular sieve for CO_2â€"CH_4 separation. Separation Science and Technology, 2016, 51, 2318-2325.	2.5	20
32	Clathrate hydrate formation in (methane, carbon dioxide or nitrogen + tetrahydropyran or furan +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 168-174.	2.0	20
33	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
34	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
35	Study of purge angle effects on the desiccant wheel performance. Energy Conversion and Management, 2017, 137, 12-20.	9.2	19
36	Study of MoO3-Î³Al2O3 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

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37	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
38	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
39	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
40	Energy approach analysis of desiccant wheel operation. Energy Systems, 2014, 5, 551-569.	3.0	15
41	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
42	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
43	Hydrate formation under static and pulsed electric fields. Journal of Natural Gas Science and Engineering, 2020, 77, 103232.	4.4	15
44	Measurement and modeling of solubility of H2S in aqueous diisopropanolamine solution. Korean Journal of Chemical Engineering, 2009, 26, 1112-1118.	2.7	14
45	(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
46	Performance assessment of hybrid desiccant cooling system at various climates. Energy Efficiency, 2010, 3, 177-187.	2.8	14
47	Experimental measurements and thermodynamic modeling of hydrate dissociation conditions in CO2â€¯+â€¯THFâ€¯+â€¯NaClâ€¯+â€¯water systems. Journal of Chemical Thermodynamics, 2020, 141, 105956.	2.0	14
48	Mathematical modeling of CO2 membrane absorption system using ionic liquid solutions. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107743.	3.6	14
49	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
50	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
51	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
52	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
53	Experimental measurement and thermodynamic modeling of hydrate dissociation conditions for (CO2â€¯+â€¯TBACâ€¯+â€¯cyclopentaneâ€¯+â€¯water) system. Journal of Chemical Thermodynamics, 2020, 144, 105979.	2.0	11
54	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

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55	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
56	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
57	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
58	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
59	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
60	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
61	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
62	A Study on the Optimization of an Air Dehumidification Desiccant System. Journal of Thermal Science and Engineering Applications, 2013, 5, .	1.5	8
63	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
64	Entropy Generation in Liquid Desiccant Dehumidification System. Energy Procedia, 2012, 14, 1855-1860.	1.8	7
65	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
66	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
67	Preparation and characterization of magnetic keratin nanocomposite. Materials Chemistry and Physics, 2018, 215, 40-45.	4.0	6
68	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
69	Thermodynamic Investigation of the Effect of Electric Field on Solid–Liquid Equilibrium. Journal of Physical Chemistry B, 2021, 125, 1271-1281.	2.6	6
70	Kinetics study of the fluorination of uranium tetrafluoride in a fluidized bed reactor. Annals of Nuclear Energy, 2008, 35, 704-707.	1.8	5
71	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
72	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

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73	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
74	Development of a novel method for Cu (II) sorption from aqueous solution and modeling by artificial neural networks (ANN). , 0, 115, 213-226.		4
75	Fluorination of UF4 in a mini-tapered fluidized bed and mathematical modeling. Annals of Nuclear Energy, 2010, 37, 1241-1247.	1.8	3
76	Syngas Production from Reforming of Methane with CO2 and O2 over LaNi1â€"xCoxO3 Perovskites. International Journal of Chemical Reactor Engineering, 2014, 12, 25-34.	1.1	3
77	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
78	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
79	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
80	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
81	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
82	InÂsitu recovery of 2,3-butanediol from fermentation by liquidâ€"liquid extraction. Journal of Industrial Microbiology and Biotechnology, 2009, 36, 873-873.	3.0	0
83	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
84	Response to â€œComment on â€˜CFD Modeling of CO2 Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine-Ionic Liquidsâ€™â€. Industrial & Engineering Chemistry Research, 2021, 60, 1503-1504.	3.7	0
85	10.2478/s11814-009-0185-8. , 2011, 26, 1112.		0