

Alireza Bahadori

List of Publications by Year in descending order

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201
papers

6,772
citations

57758

44
h-index

85541

71
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209
all docs

209
docs citations

209
times ranked

5615
citing authors

#	ARTICLE	IF	CITATIONS
1	Global strategies and potentials to curb CO ₂ emissions in cement industry. Journal of Cleaner Production, 2013, 51, 142-161.	9.3	960
2	Asphaltene precipitation and deposition in oil reservoirs – Technical aspects, experimental and hybrid neural network predictive tools. Chemical Engineering Research and Design, 2014, 92, 857-875.	5.6	146
3	Implementing Radial Basis Function Networks for modeling CO ₂ -reservoir oil minimum miscibility pressure. Journal of Natural Gas Science and Engineering, 2013, 15, 82-92.	4.4	137
4	Estimation of air dew point temperature using computational intelligence schemes. Applied Thermal Engineering, 2016, 93, 1043-1052.	6.0	114
5	Determination of oil well production performance using artificial neural network (ANN) linked to the particle swarm optimization (PSO) tool. Petroleum, 2015, 1, 118-132.	2.8	111
6	Estimation of combustion flue gas acid dew point during heat recovery and efficiency gain. Applied Thermal Engineering, 2011, 31, 1457-1462.	6.0	110
7	Prediction of water quality index (WQI) using support vector machine (SVM) and least square-support vector machine (LS-SVM). International Journal of River Basin Management, 2021, 19, 149-156.	2.7	109
8	A neural network-based local rainfall prediction system using meteorological data on the Internet: A case study using data from the Japan Meteorological Agency. Applied Soft Computing Journal, 2017, 56, 317-330.	7.2	102
9	A review on solar energy utilisation in Australia. Renewable and Sustainable Energy Reviews, 2013, 18, 1-5.	16.4	101
10	A comparative study of CO ₂ utilization in methanol synthesis with various syngas production technologies. Journal of CO ₂ Utilization, 2015, 12, 62-76.	6.8	101
11	A LSSVM approach for determining well placement and conning phenomena in horizontal wells. Fuel, 2015, 153, 276-283.	6.4	96
12	A developed smart technique to predict minimum miscible pressure – or implications. Canadian Journal of Chemical Engineering, 2013, 91, 1325-1337.	1.7	92
13	Electricity demand estimation using an adaptive neuro-fuzzy network: A case study from the Ontario province – Canada. Energy, 2013, 49, 323-328.	8.8	91
14	A rigorous model to predict the amount of Dissolved Calcium Carbonate Concentration throughout oil field brines: Side effect of pressure and temperature. Fuel, 2015, 139, 154-159.	6.4	88
15	Thermodynamic Investigation of Asphaltene Precipitation during Primary Oil Production: Laboratory and Smart Technique. Industrial & Engineering Chemistry Research, 2013, 52, 6009-6031.	3.7	86
16	A Review on the Drawbacks of Renewable Energy as a Promising Energy Source of the Future. Arabian Journal for Science and Engineering, 2013, 38, 317-328.	1.1	80
17	A novel correlation for estimation of hydrate forming condition of natural gases. Journal of Natural Gas Chemistry, 2009, 18, 453-457.	1.8	78
18	Multi-objective optimization of a cascade refrigeration system: Exergetic, economic, environmental, and inherent safety analysis. Applied Thermal Engineering, 2016, 107, 804-817.	6.0	78

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19	Prediction of CO ₂ loading capacities of aqueous solutions of absorbents using different computational schemes. International Journal of Greenhouse Gas Control, 2017, 57, 143-161.	4.6	74
20	A computational intelligence scheme for prediction equilibrium water dew point of natural gas in TEG dehydration systems. Fuel, 2014, 137, 145-154.	6.4	73
21	A review of Australia's natural gas resources and their exploitation. Journal of Natural Gas Science and Engineering, 2013, 10, 68-88.	4.4	70
22	Application of soft computing approaches for modeling saturation pressure of reservoir oils. Journal of Natural Gas Science and Engineering, 2014, 20, 8-15.	4.4	66
23	Simple methodology for sizing of absorbers for TEG (triethylene glycol) gas dehydration systems. Energy, 2009, 34, 1910-1916.	8.8	63
24	Prediction of natural gas flow through chokes using support vector machine algorithm. Journal of Natural Gas Science and Engineering, 2014, 18, 155-163.	4.4	62
25	Application of a radial basis function neural network to estimate pressure gradient in water-oil pipelines. Journal of the Taiwan Institute of Chemical Engineers, 2016, 58, 189-202.	5.3	62
26	Novel methods predict equilibrium vapor methanol content during gas hydrate inhibition. Journal of Natural Gas Science and Engineering, 2013, 15, 69-75.	4.4	59
27	Integration of LSSVM technique with PSO to determine asphaltene deposition. Journal of Petroleum Science and Engineering, 2014, 124, 243-253.	4.2	59
28	Assessing the Dynamic Viscosity of Na ⁺ -Ca ²⁺ -Cl ⁻ -H ₂ O Aqueous Solutions at High-Pressure and High-Temperature Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 11488-11500.	3.7	58
29	Prediction of carbon dioxide solubility in ionic liquids using MLP and radial basis function (RBF) neural networks. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 151-164.	5.3	58
30	Rigorous models to optimise stripping gas rate in natural gas dehydration units. Fuel, 2015, 140, 421-428.	6.4	57
31	Prediction of the aqueous solubility of BaSO ₄ using pitzer ion interaction model and LSSVM algorithm. Fluid Phase Equilibria, 2014, 374, 48-62.	2.5	56
32	A novel modeling approach to optimize oxygen-steam ratios in coal gasification process. Fuel, 2015, 153, 1-5.	6.4	55
33	Prediction of carbon dioxide solubility in aqueous mixture of methyldiethanolamine and N-methylpyrrolidone using intelligent models. International Journal of Greenhouse Gas Control, 2016, 47, 122-136.	4.6	55
34	Toward genetic programming (GP) approach for estimation of hydrocarbon/water interfacial tension. Journal of Molecular Liquids, 2017, 230, 175-189.	4.9	54
35	Estimation of the water content of natural gas dried by solid calcium chloride dehydrator units. Fuel, 2014, 117, 33-42.	6.4	53
36	Rapid estimation of equilibrium water dew point of natural gas in TEG dehydration systems. Journal of Natural Gas Science and Engineering, 2009, 1, 68-71.	4.4	52

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37	Estimation of triethylene glycol (TEG) purity in natural gas dehydration units using fuzzy neural network. Journal of Natural Gas Science and Engineering, 2014, 17, 26-32.	4.4	51
38	Prediction of the binary surface tension of mixtures containing ionic liquids using Support Vector Machine algorithms. Journal of Molecular Liquids, 2015, 211, 534-552.	4.9	51
39	A simple method for the estimation of thermal insulation thickness. Applied Energy, 2010, 87, 613-619.	10.1	50
40	Prediction of Air Specific Heat Ratios at Elevated Pressures Using a Novel Modeling Approach. Chemical Engineering and Technology, 2014, 37, 2047-2055.	1.5	50
41	Prediction of silica carry-over and solubility in steam of boilers using simple correlation. Applied Thermal Engineering, 2010, 30, 250-253.	6.0	48
42	Estimation of breakthrough time for water coning in fractured systems: Experimental study and connectionist modeling. AIChE Journal, 2014, 60, 1905-1919.	3.6	48
43	New tools predict monoethylene glycol injection rate for natural gas hydrate inhibition. Journal of Loss Prevention in the Process Industries, 2015, 33, 222-231.	3.3	48
44	New correlations predict aqueous solubility and density of carbon dioxide. International Journal of Greenhouse Gas Control, 2009, 3, 474-480.	4.6	47
45	Regressive approach for predicting bearing capacity of bored piles from cone penetration test data. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 584-592.	8.1	47
46	Accurate estimation of CO ₂ adsorption on activated carbon with multi-layer feed-forward neural network (MLFNN) algorithm. Egyptian Journal of Petroleum, 2018, 27, 65-73.	2.6	46
47	Perspectives for the production of ethanol from lignocellulosic feedstock – A case study. Journal of Cleaner Production, 2015, 95, 184-193.	9.3	44
48	An overview of Australia's hydropower energy: Status and future prospects. Renewable and Sustainable Energy Reviews, 2013, 20, 565-569.	16.4	42
49	Rigorous modeling for prediction of barium sulfate (barite) deposition in oilfield brines. Fluid Phase Equilibria, 2014, 366, 117-126.	2.5	42
50	Phase equilibrium modelling of natural gas hydrate formation conditions using LSSVM approach. Petroleum Science and Technology, 2016, 34, 1431-1438.	1.5	42
51	Rapidly Estimating Natural Gas Compressibility Factor. Journal of Natural Gas Chemistry, 2007, 16, 349-353.	1.8	41
52	Techno-economic evaluation of a novel NGL recovery scheme with nine patented schemes for offshore applications. Journal of Natural Gas Science and Engineering, 2015, 27, 2-17.	4.4	41
53	Computational intelligent strategies to predict energy conservation benefits in excess air controlled gas-fired systems. Applied Thermal Engineering, 2016, 102, 432-446.	6.0	40
54	Modeling of true vapor pressure of petroleum products using ANFIS algorithm. Petroleum Science and Technology, 2016, 34, 933-939.	1.5	40

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55	Vapor liquid equilibrium prediction of carbon dioxide and hydrocarbon systems using LSSVM algorithm. <i>Journal of Supercritical Fluids</i> , 2015, 97, 256-267.	3.2	39
56	On the estimation of viscosities and densities of CO ₂ -loaded MDEA, MDEA + AMP, MDEA + DIPA, MDEA + MEA, and MDEA + DEA aqueous solutions. <i>Journal of Molecular Liquids</i> , 2017, 242, 146-159.	4.9	38
57	Estimation of natural gases water content using adaptive neuro-fuzzy inference system. <i>Petroleum Science and Technology</i> , 2016, 34, 891-897.	1.5	37
58	Improving water quality index prediction in Perak River basin Malaysia through a combination of multiple neural networks. <i>International Journal of River Basin Management</i> , 2017, 15, 79-87.	2.7	37
59	Prediction of CO ₂ -oil molecular diffusion using adaptive neuro-fuzzy inference system and particle swarm optimization technique. <i>Fuel</i> , 2016, 181, 178-187.	6.4	36
60	Prediction of solubility of ammonia in liquid electrolytes using Least Square Support Vector Machines. <i>Ain Shams Engineering Journal</i> , 2018, 9, 1303-1312.	6.1	36
61	Practical and Economic Aspects of the Ex-Situ Process: Implications for CO ₂ Sequestration. <i>Energy & Fuels</i> , 2013, 27, 401-413.	5.1	35
62	Prediction of the properties of brines using least squares support vector machine (LS-SVM) computational strategy. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 123-130.	5.3	35
63	Prediction of phase equilibrium of CO ₂ /cyclic compound binary mixtures using a rigorous modeling approach. <i>Journal of Supercritical Fluids</i> , 2014, 90, 110-125.	3.2	34
64	Sequential coordinate random search for optimal operation of LNG (liquefied natural gas) plant. <i>Energy</i> , 2015, 89, 757-767.	8.8	34
65	An accurate model to predict drilling fluid density at wellbore conditions. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 1-10.	2.6	34
66	Analyzing solubility of acid gas and light alkanes in triethylene glycol. <i>Journal of Natural Gas Chemistry</i> , 2008, 17, 51-58.	1.8	33
67	New method accurately predicts carbon dioxide equilibrium adsorption isotherms. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 768-772.	4.6	33
68	Estimation of performance of steam turbines using a simple predictive tool. <i>Applied Thermal Engineering</i> , 2010, 30, 1832-1838.	6.0	33
69	Prediction of a solid desiccant dehydrator performance using least squares support vector machines algorithm. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 115-122.	5.3	33
70	Evolving a robust modeling tool for prediction of natural gas hydrate formation conditions. <i>Journal of Unconventional Oil and Gas Resources</i> , 2015, 12, 45-55.	3.5	33
71	Geodynamic evolution of southwestern North America since the Late Eocene. <i>Nature Communications</i> , 2019, 10, 5213.	12.8	33
72	Determination of the equilibrated calcium carbonate (calcite) scaling in aqueous phase using a reliable approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1307-1313.	5.3	31

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73	Enhanced recovery of PGME and PGMEA from waste photoresistor thinners by heterogeneous azeotropic dividing-wall column. Chemical Engineering Research and Design, 2016, 103, 413-423.	5.6	31
74	Prediction of reservoir brine properties using radial basis function (RBF) neural network. Petroleum, 2015, 1, 349-357.	2.8	29
75	Decline curve based models for predicting natural gas well performance. Petroleum, 2017, 3, 242-248.	2.8	29
76	Optimal design of advanced distillation configuration for enhanced energy efficiency of waste solvent recovery process in semiconductor industry. Energy Conversion and Management, 2015, 102, 92-103.	9.2	28
77	Evaluation of the ability of the hydrophobic nanoparticles of SiO ₂ in the EOR process through carbonate rock samples. Petroleum Science and Technology, 2016, 34, 1048-1054.	1.5	28
78	Feasibility study of environmental relative humidity through the thermodynamic effects on the performance of natural gas liquefaction process. Applied Thermal Engineering, 2018, 128, 51-63.	6.0	28
79	Connectionist Model to Estimate Performance of Steam-Assisted Gravity Drainage in Fractured and Unfractured Petroleum Reservoirs: Enhanced Oil Recovery Implications. Industrial & Engineering Chemistry Research, 2014, 53, 1645-1662.	3.7	27
80	Prediction of Methane Uptake on Different Adsorbents in Adsorbed Natural Gas Technology Using a Rigorous Model. Energy & Fuels, 2014, 28, 6299-6314.	5.1	27
81	Novel retrofit designs using a modified coordinate descent methodology for improving energy efficiency of natural gas liquid fractionation process. Journal of Natural Gas Science and Engineering, 2016, 33, 458-468.	4.4	27
82	Reconstruction modeling of crustal thickness and paleotopography of western North America since 36 Ma. , 2018, 14, 1207-1231.		27
83	Prediction of solubility of carbon dioxide in different polymers using support vector machine algorithm. Journal of the Taiwan Institute of Chemical Engineers, 2015, 46, 205-213.	5.3	26
84	Predicting hydrate forming pressure of pure alkanes in the presence of inhibitors. Journal of Natural Gas Chemistry, 2008, 17, 249-255.	1.8	25
85	Determination of well placement and breakthrough time in horizontal wells for homogeneous and anisotropic reservoirs. Journal of Petroleum Science and Engineering, 2010, 75, 196-202.	4.2	24
86	Optimization of modified single mixed refrigerant process of natural gas liquefaction using multivariate Coggin's algorithm combined with process knowledge. Journal of Natural Gas Science and Engineering, 2016, 33, 731-741.	4.4	24
87	A new decision tree based algorithm for prediction of hydrogen sulfide solubility in various ionic liquids. Journal of Molecular Liquids, 2017, 242, 701-713.	4.9	24
88	Novel predictive tools for design of radiant and convective sections of direct fired heaters. Applied Energy, 2010, 87, 2194-2202.	10.1	23
89	Experimental investigation the effect of nanoparticles on micellization behavior of a surfactant: Application to EOR. Petroleum Science and Technology, 2016, 34, 1055-1061.	1.5	23
90	A least-squares support vector machine approach to predict temperature drop accompanying a given pressure drop for the natural gas production and processing systems. International Journal of Ambient Energy, 2017, 38, 122-129.	2.5	23

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91	Evaluate the Performance of Fenton Process for the Removal of Methylene Blue from Aqueous Solution: Experimental, Neural Network Modeling and Optimization. Environmental Progress and Sustainable Energy, 2020, 39, .	2.3	23
92	Simple method for estimation of effectiveness in one tube pass and one shell pass counter-flow heat exchangers. Applied Energy, 2011, 88, 4191-4196.	10.1	22
93	A dual approach for modelling and optimisation of industrial urea reactor: Smart technique and grey box model. Canadian Journal of Chemical Engineering, 2014, 92, 469-485.	1.7	22
94	Predictive tool for an accurate estimation of carbon dioxide transport properties. International Journal of Greenhouse Gas Control, 2010, 4, 532-536.	4.6	21
95	Estimation of air concentration in dissolved air flotation (DAF) systems using a simple predictive tool. Chemical Engineering Research and Design, 2013, 91, 184-190.	5.6	21
96	An overview of renewable energy potential and utilisation in Australia. Renewable and Sustainable Energy Reviews, 2013, 21, 582-589.	16.4	21
97	Prediction of carbon dioxide dissolution in bulk water under isothermal pressure decay at different boundary conditions. Journal of Molecular Liquids, 2015, 202, 23-33.	4.9	21
98	Prediction of methanol loss in liquid hydrocarbon phase during natural gas hydrate inhibition using rigorous models. Journal of Loss Prevention in the Process Industries, 2015, 33, 1-9.	3.3	21
99	Prediction performance of natural gas dehydration units for water removal efficiency using a least-square support vector machine. International Journal of Ambient Energy, 2016, 37, 486-494.	2.5	21
100	Risk-based optimization for representative natural gas liquid (NGL) recovery processes by considering uncertainty from the plant inlet. Journal of Natural Gas Science and Engineering, 2015, 27, 42-54.	4.4	20
101	Accurate prediction of CO ₂ solubility in eutectic mixture of levulinic acid (or furfuryl alcohol) and choline chloride. International Journal of Greenhouse Gas Control, 2017, 58, 212-222.	4.6	20
102	Geochemical analysis of evaporite sedimentation in the Gachsaran Formation, Zolai oil field, southwest Iran. Journal of Geochemical Exploration, 2011, 111, 97-112.	3.2	19
103	Droplets evolution during ex situ dissolution technique for geological CO ₂ sequestration: Experimental and mathematical modelling. International Journal of Greenhouse Gas Control, 2013, 13, 201-214.	4.6	19
104	Optimizing separator pressures in the multistage crude oil production unit. Asia-Pacific Journal of Chemical Engineering, 2008, 3, 380-386.	1.5	18
105	Prediction of bulk modulus and volumetric expansion coefficient of water for leak tightness test of pipelines. International Journal of Pressure Vessels and Piping, 2009, 86, 550-554.	2.6	18
106	Toward an intelligent approach for predicting surface tension of binary mixtures containing ionic liquids. Korean Journal of Chemical Engineering, 2018, 35, 1556-1569.	2.7	18
107	Strategies for the consolidation of biologically mediated events in the conversion of pre-treated lignocellulose into ethanol. RSC Advances, 2014, 4, 3392-3412.	3.6	17
108	Recovery Rate of Vapor Extraction in Heavy Oil Reservoirs—Experimental, Statistical, and Modeling Studies. Industrial & Engineering Chemistry Research, 2014, 53, 16091-16106.	3.7	17

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109	Development of soft computing methods to predict moisture content of natural gases. Journal of the Taiwan Institute of Chemical Engineers, 2015, 55, 36-41.	5.3	17
110	Prediction of methanol loss in vapor phase during gas hydrate inhibition using Arrhenius-type functions. Journal of Loss Prevention in the Process Industries, 2010, 23, 379-384.	3.3	16
111	A computational intelligence scheme for prediction of interfacial tension between pure hydrocarbons and water. Chemical Engineering Research and Design, 2015, 95, 79-92.	5.6	16
112	Prediction of formation of polycyclic aromatic hydrocarbon (PAHs) on sediment of Caspian Sea using artificial neural networks. Petroleum Science and Technology, 2019, 37, 1987-2000.	1.5	16
113	Estimation of air specific heat ratio at elevated pressures using simple predictive tool. Energy Conversion and Management, 2011, 52, 1526-1532.	9.2	15
114	Estimation of potential barium sulfate (barite) precipitation in oilfield brines using a simple predictive tool. Environmental Progress and Sustainable Energy, 2013, 32, 860-865.	2.3	15
115	A simple approach for screening enhanced oil recovery methods: Application of artificial intelligence. Petroleum Science and Technology, 2016, 34, 1887-1893.	1.5	15
116	Modelling of gas to hydrate conversion for promoting CO ₂ capture processes in the oil and gas industry. Petroleum Science and Technology, 2016, 34, 642-651.	1.5	15
117	Estimation of oil and gas properties in petroleum production and processing operations using rigorous model. Petroleum Science and Technology, 2016, 34, 1129-1136.	1.5	15
118	Analysing gas well production data using a simplified decline curve analysis method. Chemical Engineering Research and Design, 2012, 90, 541-547.	5.6	14
119	Prediction of supercritical CO ₂ /brine relative permeability in sedimentary basins during carbon dioxide sequestration. , 2015, 5, 756-771.		14
120	Liquid-liquid equilibrium data and correlation for quaternary systems of acetic acid + water + methyl acetate + p-xylene at 313.2 K. Journal of Industrial and Engineering Chemistry, 2016, 35, 369-375.	5.8	14
121	Rapid Estimation of Water Content of Sour Natural Gases. Journal of the Japan Petroleum Institute, 2009, 52, 270-274.	0.6	13
122	A method for estimation of recoverable heat from blowdown systems during steam generation. Energy, 2010, 35, 3501-3507.	8.8	13
123	Estimation of energy conservation benefits in excess air controlled gas-fired systems. Fuel Processing Technology, 2010, 91, 1198-1203.	7.2	13
124	Estimation of potential savings from reducing unburned combustible losses in coal-fired systems. Applied Energy, 2010, 87, 3792-3799.	10.1	13
125	Prediction of critical oil rate for bottom water coning in anisotropic and homogeneous formations. Journal of Petroleum Science and Engineering, 2012, 82-83, 125-129.	4.2	13
126	Estimation of the effect of biomass moisture content on the direct combustion of sugarcane bagasse in boilers. International Journal of Sustainable Energy, 2014, 33, 349-356.	2.4	13

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127	Carbon dioxide compressibility factor determination using a robust intelligent method. Journal of Supercritical Fluids, 2015, 101, 140-149.	3.2	13
128	Estimation of the silica solubility in the superheated steam using <scp>LSSVM</scp> modeling approach. Environmental Progress and Sustainable Energy, 2016, 35, 596-602.	2.3	13
129	Prediction of water removal rate in a natural gas dehydration system using radial basis function neural network. Petroleum Science and Technology, 2016, 34, 951-960.	1.5	13
130	Simple Arrhenius-type function accurately predicts dissolved oxygen saturation concentrations in aquatic systems. Chemical Engineering Research and Design, 2010, 88, 335-340.	5.6	12
131	On the determination of crude oil salt content: Application of robust modeling approaches. Journal of the Taiwan Institute of Chemical Engineers, 2015, 55, 27-35.	5.3	12
132	Implementing radial basis function neural network for prediction of surfactant retention in petroleum production and processing industries. Petroleum Science and Technology, 2016, 34, 992-999.	1.5	12
133	Development of ANFIS models for polycyclic aromatic hydrocarbons (PAHs) formation in sea sediment. Petroleum Science and Technology, 2019, 37, 679-686.	1.5	12
134	Essentials of Water Systems Design in the Oil, Gas, and Chemical Processing Industries. SpringerBriefs in Applied Sciences and Technology, 2013, , .	0.4	12
135	Prediction of compressed air transport properties at elevated pressures and high temperatures using simple method. Applied Energy, 2011, 88, 1434-1440.	10.1	10
136	Simple predictive tool to estimate relative humidity using wet bulb depression and dry bulb temperature. Applied Thermal Engineering, 2013, 50, 511-515.	6.0	10
137	Prediction of heavy oil viscosity using a radial basis function neural network. Petroleum Science and Technology, 2016, 34, 1742-1748.	1.5	10
138	Prediction of H ₂ S Solubility in Liquid Electrolytes by Multilayer Perceptron and Radial Basis Function Neural Networks. Chemical Engineering and Technology, 2017, 40, 367-375.	1.5	10
139	A Numerical Approach for Multicomponent Vapor Solid Equilibrium Calculations in Gas Hydrate Formation. Journal of Natural Gas Chemistry, 2007, 16, 16-21.	1.8	9
140	Estimation of saturated air water content at elevated pressures using simple predictive tool. Chemical Engineering Research and Design, 2011, 89, 179-186.	5.6	9
141	A simple predictive tool to estimate flow coefficient for subsonic natural gas flow through nozzle-type chokes. Journal of Natural Gas Science and Engineering, 2012, 7, 1-6.	4.4	9
142	Estimation of flow coefficient for subsonic natural gas flow through orifice-type chokes using a simple method. Journal of Natural Gas Science and Engineering, 2012, 9, 39-44.	4.4	9
143	Prediction of the viscosity of water-in-oil emulsions. Petroleum Science and Technology, 2016, 34, 1972-1977.	1.5	9
144	Determination of efficient surfactants in the oil and gas production units using the SVM approach. Petroleum Science and Technology, 2016, 34, 1691-1697.	1.5	9

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145	Prediction of hydrate equilibrium conditions using k-nearest neighbor algorithm to CO ₂ capture. Petroleum Science and Technology, 2017, 35, 1070-1077.	1.5	9
146	Predictive tool for estimation of convection heat transfer coefficients and efficiencies for finned tubular sections. International Journal of Thermal Sciences, 2010, 49, 1477-1483.	4.9	8
147	The Miocene Gachsaran Formation evaporite cap rock, Zeloi oilfield, SW Iran. Carbonates and Evaporites, 2015, 30, 287-306.	1.0	8
148	Modelling of CO ₂ separation from gas streams emissions in the oil and gas industries. Petroleum Science and Technology, 2016, 34, 1291-1299.	1.5	8
149	New numerical model for solubility of light alkanes in triethylene glycol. Korean Journal of Chemical Engineering, 2007, 24, 418-425.	2.7	7
150	Simple method for estimation of unsteady state conduction heat flow with variable surface temperature in slabs and spheres. International Journal of Heat and Mass Transfer, 2010, 53, 4536-4542.	4.8	7
151	Expert and gray box modeling of high pressure liquid carbon dioxide extraction of Pimpinella anisum L. seed. Journal of Supercritical Fluids, 2012, 72, 213-222.	3.2	7
152	Prediction of hydrate formation conditions to separate carbon dioxide from fuel gas mixture in the presence of various promoters. Petroleum Science and Technology, 2016, 34, 153-161.	1.5	7
153	Prediction of equilibrium water dew point of natural gas in TEG dehydration systems using Bayesian Feedforward Artificial Neural Network (FANN). Petroleum Science and Technology, 2018, 36, 1620-1626.	1.5	7
154	Prediction of Axial Dispersion in Plug-Flow Reactors Using a Simple Method. Journal of Dispersion Science and Technology, 2012, 33, 200-205.	2.4	6
155	Design of an Extractive Distillation Column for the Environmentally Benign Separation of Zirconium and Hafnium Tetrachloride for Nuclear Power Reactor Applications. Energies, 2015, 8, 10354-10369.	3.1	6
156	Crustal Strain Patterns Associated With Normal, Drought, and Heavy Precipitation Years in California. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB019560.	3.4	6
157	A new experimental method to prevent paraffin - wax formation on the crude oil wells: A field case study in Libya. Hemijiska Industrija, 2015, 69, 269-274.	0.7	6
158	A new method for prediction of absorption/stripping factors. Computers and Chemical Engineering, 2010, 34, 1731-1736.	3.8	5
159	A new method estimates TEG purity versus reconcentrator temperature at different levels of pressure in gas dehydration systems. International Journal of Oil, Gas and Coal Technology, 2014, 7, 85.	0.2	5
160	Ozone Pollution Prediction around Industrial Areas Using Fuzzy Neural Network Approach. Clean - Soil, Air, Water, 2014, 42, 871-879.	1.1	5
161	Pollution Control in Oil, Gas and Chemical Plants. , 2014, , .		5
162	Estimation of water content of natural gases using particle swarm optimization method. Petroleum Science and Technology, 2016, 34, 595-600.	1.5	5

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163	Prediction of carbon dioxide separation from gas mixtures in petroleum industries using the Levenberg–Marquardt algorithm. <i>Petroleum Science and Technology</i> , 2016, 34, 703-711.	1.5	5
164	On the determination of breakthrough time for water coning phenomenon in oil reservoirs. <i>Petroleum Science and Technology</i> , 2016, 34, 44-49.	1.5	5
165	Prediction of accelerator operation using machine learning. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2018, 13, 656-657.	1.4	5
166	Intelligent prediction of aliphatic and aromatic hydrocarbons in Caspian Sea sediment using a neural network based on particle swarm optimization. <i>Petroleum Science and Technology</i> , 2019, 37, 2364-2373.	1.5	5
167	Modeling and analysis of hydrogen production in steam methane reforming (SMR) process. <i>Petroleum Science and Technology</i> , 2019, 37, 1425-1435.	1.5	5
168	Estimation of displacement losses from storage containers using a simple method. <i>Journal of Loss Prevention in the Process Industries</i> , 2010, 23, 367-372.	3.3	4
169	Estimation of maximum shell-side vapour velocities through heat exchangers. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1589-1592.	5.6	4
170	Simple equations to correlate theoretical stages and operating reflux in fractionators. <i>Energy</i> , 2010, 35, 1439-1446.	8.8	4
171	Predictive Tool for the Estimation of Methanol Loss in Condensate Phase during Gas Hydrate Inhibition. <i>Energy & Fuels</i> , 2010, 24, 2999-3002.	5.1	4
172	Estimation of Surface Tensions of Paraffin Hydrocarbons Using a Novel Predictive Tool Approach and Vandermonde Matrix. <i>Energy & Fuels</i> , 2011, 25, 5695-5699.	5.1	4
173	CALCULATING PSEUDO-STEADY-STATE HORIZONTAL OIL WELL PRODUCTIVITY IN RECTANGULAR DRAINAGE AREAS USING A SIMPLE METHOD. <i>Chemical Engineering Communications</i> , 2013, 200, 222-234.	2.6	4
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