

Abdolhossein Hemmati-Sarapardeh

List of Publications by Year in descending order

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184
papers

5,720
citations

61857

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188
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188
times ranked

2626
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling of methane adsorption capacity in shale gas formations using white-box supervised machine learning techniques. Journal of Petroleum Science and Engineering, 2022, 208, 109226.	2.1	21
2	Estimation of tetracycline antibiotic photodegradation from wastewater by heterogeneous metal-organic frameworks photocatalysts. Chemosphere, 2022, 287, 132135.	4.2	43
3	Predicting formation damage of oil fields due to mineral scaling during water-flooding operations: Gradient boosting decision tree and cascade-forward back-propagation network. Journal of Petroleum Science and Engineering, 2022, 208, 109315.	2.1	24
4	Predicting viscosity of CO ₂ -N ₂ gaseous mixtures using advanced intelligent schemes. Journal of Petroleum Science and Engineering, 2022, 208, 109359.	2.1	20
5	Modeling of gas viscosity at high pressure-high temperature conditions: Integrating radial basis function neural network with evolutionary algorithms. Journal of Petroleum Science and Engineering, 2022, 208, 109328.	2.1	12
6	Modelling density of pure and binary mixtures of normal alkanes: Comparison of hybrid soft computing techniques, gene expression programming, and equations of state. Journal of Petroleum Science and Engineering, 2022, 208, 109737.	2.1	10
7	Modeling hydrogen solubility in alcohols using machine learning models and equations of state. Journal of Molecular Liquids, 2022, 346, 117807.	2.3	16
8	Modeling of wax disappearance temperature (WDT) using soft computing approaches: Tree-based models and hybrid models. Journal of Petroleum Science and Engineering, 2022, 208, 109774.	2.1	25
9	On the evaluation of permeability of heterogeneous carbonate reservoirs using rigorous data-driven techniques. Journal of Petroleum Science and Engineering, 2022, 208, 109685.	2.1	9
10	Application of robust machine learning methods to modeling hydrogen solubility in hydrocarbon fuels. International Journal of Hydrogen Energy, 2022, 47, 320-338.	3.8	26
11	Modeling thermal conductivity of nanofluids using advanced correlative approaches: Group method of data handling and gene expression programming. International Communications in Heat and Mass Transfer, 2022, 131, 105818.	2.9	13
12	Magnetic Fe ₂ O ₃ /ZIF-7 Composite Particles and Their Application for Oily Water Treatment. ACS Omega, 2022, 7, 3700-3712.	1.6	8
13	Modeling of H ₂ S solubility in ionic liquids using deep learning: A chemical structure-based approach. Journal of Molecular Liquids, 2022, 351, 118418.	2.3	15
14	New indexes for thermal maturity assessment based on asphaltene fraction. Journal of Petroleum Science and Engineering, 2022, 211, 110213.	2.1	1
15	Predicting the surfactant-polymer flooding performance in chemical enhanced oil recovery: Cascade neural network and gradient boosting decision tree. AEJ - Alexandria Engineering Journal, 2022, 61, 7715-7731.	3.4	14
16	Experimental measurement and compositional modeling of bubble point pressure in crude oil systems: Soft computing approaches, correlations, and equations of state. Journal of Petroleum Science and Engineering, 2022, 212, 110271.	2.1	6
17	Modeling Interfacial Tension of N ₂ /CO ₂ Mixture + n-Alkanes with Machine Learning Methods: Application to EOR in Conventional and Unconventional Reservoirs by Flue Gas Injection. Minerals (Basel, Switzerland), 2022, 12, 252.	0.8	11
18	Modeling solubility of CO ₂ -N ₂ gas mixtures in aqueous electrolyte systems using artificial intelligence techniques and equations of state. Scientific Reports, 2022, 12, 3625.	1.6	26

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19	An advanced computational intelligent framework to predict shear sonic velocity with application to mechanical rock classification. <i>Scientific Reports</i> , 2022, 12, 5579.	1.6	6
20	Toward predicting SO ₂ solubility in ionic liquids utilizing soft computing approaches and equations of state. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104220.	2.7	14
21	On the evaluation of asphaltene adsorption onto dolomite surface: The roles of flow condition, composition of asphaltene, and dolomite size. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 9411-9425.	3.4	8
22	Integrating advanced soft computing techniques with experimental studies for pore structure analysis of Qingshankou shale in Southern Songliao Basin, NE China. <i>International Journal of Coal Geology</i> , 2022, 257, 103998.	1.9	20
23	On the evaluation of the interfacial tension of immiscible binary systems of methane, carbon dioxide, and nitrogen-alkanes using robust data-driven approaches. <i>AEJ - Alexandria Engineering Journal</i> , 2022, 61, 11601-11614.	3.4	2
24	Machine learning assisted Structure-based models for predicting electrical conductivity of ionic liquids. <i>Journal of Molecular Liquids</i> , 2022, 362, 119509.	2.3	13
25	Modeling of Brine/CO ₂ /Mineral Wettability Using Gene Expression Programming (GEP): Application to Carbon Geo-Sequestration. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 760.	0.8	2
26	Modelling rate of penetration in drilling operations using RBF, MLP, LSSVM, and DT models. <i>Scientific Reports</i> , 2022, 12, .	1.6	10
27	Compositional Modeling of the Oil Formation Volume Factor of Crude Oil Systems: Application of Intelligent Models and Equations of State. <i>ACS Omega</i> , 2022, 7, 24256-24273.	1.6	4
28	Modeling viscosity of methane, nitrogen, and hydrocarbon gas mixtures at ultra-high pressures and temperatures using group method of data handling and gene expression programming techniques. <i>Chinese Journal of Chemical Engineering</i> , 2021, 32, 431-445.	1.7	5
29	Smart modeling of viscosity of viscoelastic surfactant self-diverting acids. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107617.	2.1	18
30	Accurate determination of permeability in carbonate reservoirs using Gaussian Process Regression. <i>Journal of Petroleum Science and Engineering</i> , 2021, 196, 107807.	2.1	31
31	Toward smart schemes for modeling CO ₂ solubility in crude oil: Application to carbon dioxide enhanced oil recovery. <i>Fuel</i> , 2021, 285, 119147.	3.4	35
32	Toward mechanistic understanding of wettability alteration in calcite and dolomite rocks: The effects of resin, asphaltene, anionic surfactant, and hydrophilic nano particles. <i>Journal of Molecular Liquids</i> , 2021, 321, 114672.	2.3	27
33	Modeling thermal conductivity of ionic liquids: A comparison between chemical structure and thermodynamic properties-based models. <i>Journal of Molecular Liquids</i> , 2021, 322, 114911.	2.3	16
34	Conformance Control in Oil Reservoirs by Citric Acid-Coated Magnetite Nanoparticles. <i>ACS Omega</i> , 2021, 6, 9001-9012.	1.6	12
35	Experimental evaluation of thermal maturity of crude oil samples by asphaltene fraction: Raman spectroscopy and X-ray diffraction. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108269.	2.1	8
36	On the Evaluation of Interfacial Tension (IFT) of CO ₂ –Paraffin System for Enhanced Oil Recovery Process: Comparison of Empirical Correlations, Soft Computing Approaches, and Parachor Model. <i>Energies</i> , 2021, 14, 3045.	1.6	23

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37	Modeling surface tension of ionic liquids by chemical structure-intelligence based models. <i>Journal of Molecular Liquids</i> , 2021, 342, 116961.	2.3	23
38	A review on asphaltenes characterization by X-ray diffraction: Fundamentals, challenges, and tips. <i>Journal of Molecular Structure</i> , 2021, 1238, 130425.	1.8	26
39	Experimental study and modelling of asphaltene deposition on metal surfaces with superhydrophobic and low sliding angle inner coatings. <i>Scientific Reports</i> , 2021, 11, 16812.	1.6	7
40	Modeling hydrogen solubility in hydrocarbons using extreme gradient boosting and equations of state. <i>Scientific Reports</i> , 2021, 11, 17911.	1.6	52
41	Experimental Measurement and Equilibrium Modeling of Adsorption of Asphaltenes from Various Origins onto the Magnetite Surface under Static and Dynamic Conditions. <i>ACS Omega</i> , 2021, 6, 24256-24268.	1.6	10
42	On the evaluation of crude oil oxidation during thermogravimetry by generalised regression neural network and gene expression programming: application to thermal enhanced oil recovery. <i>Combustion Theory and Modelling</i> , 2021, 25, 1268-1295.	1.0	21
43	Smart learning strategy for predicting viscoelastic surfactant (VES) viscosity in oil well matrix acidizing process using a rigorous mathematical approach. <i>SN Applied Sciences</i> , 2021, 3, 1.	1.5	5
44	Application of cascade forward neural network and group method of data handling to modeling crude oil pyrolysis during thermal enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108836.	2.1	50
45	Toward mechanistic understanding of asphaltene adsorption onto quartz surface: The roles of size, concentration, and hydrophobicity of quartz, asphaltene composition, flow condition, and aqueous phase. <i>Journal of Petroleum Science and Engineering</i> , 2021, 205, 108820.	2.1	11
46	Experimental measurement and modeling of water-based drilling mud density using adaptive boosting decision tree, support vector machine, and K-nearest neighbors: A case study from the South Pars gas field. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109132.	2.1	20
47	Modeling the density of acid gases at extensive ranges of pressure and temperature conditions. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109063.	2.1	2
48	Evaluation of asphaltene adsorption on minerals of dolomite and sandstone formations in two and three-phase systems. <i>Advances in Geo-Energy Research</i> , 2021, 5, 39-52.	3.1	23
49	Viscosity of Ionic Liquids: Application of the Eyring's Theory and a Committee Machine Intelligent System. <i>Molecules</i> , 2021, 26, 156.	1.7	27
50	Modeling of carbon dioxide solubility in ionic liquids based on group method of data handling. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 23-42.	1.5	9
51	Modeling of nitrogen solubility in unsaturated, cyclic, and aromatic hydrocarbons: Deep learning methods and SAFT equation of state. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 131, 104124-104124.	2.7	12
52	ZIF-8/carbon fiber for continuous adsorption of sodium dodecyl sulfate (SDS) from aqueous solutions: Kinetics and equilibrium studies. <i>Journal of Water Process Engineering</i> , 2021, 44, 102437.	2.6	10
53	Designing a committee of machines for modeling viscosity of water-based nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2021, 15, 1967-1987.	1.5	6
54	Modeling of nitrogen solubility in normal alkanes using machine learning methods compared with cubic and PC-SAFT equations of state. <i>Scientific Reports</i> , 2021, 11, 24403.	1.6	13

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55	Modeling of CO2 adsorption capacity by porous metal organic frameworks using advanced decision tree-based models. Scientific Reports, 2021, 11, 24468.	1.6	34
56	Modeling minimum miscibility pressure of pure/impure CO2-crude oil systems using adaptive boosting support vector regression: Application to gas injection processes. Journal of Petroleum Science and Engineering, 2020, 184, 106499.	2.1	36
57	Modeling dew point pressure of gas condensate reservoirs: Comparison of hybrid soft computing approaches, correlations, and thermodynamic models. Journal of Petroleum Science and Engineering, 2020, 184, 106558.	2.1	28
58	Modeling natural gas compressibility factor using a hybrid group method of data handling. Engineering Applications of Computational Fluid Mechanics, 2020, 14, 27-37.	1.5	20
59	Modeling relative permeability of gas condensate reservoirs: Advanced computational frameworks. Journal of Petroleum Science and Engineering, 2020, 189, 106929.	2.1	29
60	On the evaluation of thermal conductivity of nanofluids using advanced intelligent models. International Communications in Heat and Mass Transfer, 2020, 118, 104825.	2.9	21
61	Rigorous framework determining residual gas saturations during spontaneous and forced imbibition using gene expression programming. Journal of Natural Gas Science and Engineering, 2020, 84, 103644.	2.1	6
62	Intelligent models. , 2020, , 23-50.		2
63	Training and optimization algorithms. , 2020, , 51-78.		1
64	Application of intelligent models in exploration engineering. , 2020, , 279-294.		0
65	Weaknesses and strengths of intelligent models in petroleum industry. , 2020, , 295-301.		0
66	Experimental study and modeling of asphaltene deposition on metal surfaces via electrodeposition process: The role of ultrasonic radiation, asphaltene concentration and structure. Journal of Petroleum Science and Engineering, 2020, 195, 107734.	2.1	16
67	Integrating functionalized magnetite nanoparticles with low salinity water and surfactant solution: Interfacial tension study. Fuel, 2020, 281, 118641.	3.4	24
68	Development of a powerful zeolitic imidazolate framework (ZIF-8)/carbon fiber nanocomposite for separation of hydrocarbons and crude oil from wastewater. Microporous and Mesoporous Materials, 2020, 307, 110463.	2.2	25
69	Comparative Analysis of Machine Learning Models for Nanofluids Viscosity Assessment. Nanomaterials, 2020, 10, 1767.	1.9	24
70	Modeling interfacial tension of methane-brine systems at high pressure and high salinity conditions. Journal of the Taiwan Institute of Chemical Engineers, 2020, 114, 125-141.	2.7	28
71	Application of intelligent models in reservoir and production engineering. , 2020, , 79-227.		1
72	Application of intelligent models in drilling engineering. , 2020, , 229-278.		0

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73	Artificial Intelligence Based Methods for Asphaltenes Adsorption by Nanocomposites: Application of Group Method of Data Handling, Least Squares Support Vector Machine, and Artificial Neural Networks. <i>Nanomaterials</i> , 2020, 10, 890.	1.9	40
74	Modeling viscosity of light and intermediate dead oil systems using advanced computational frameworks and artificial neural networks. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107388.	2.1	14
75	Effect of asphaltene structure on its aggregation behavior in toluene-normal alkane mixtures. <i>Journal of Molecular Structure</i> , 2020, 1220, 128605.	1.8	33
76	Application of nanoparticles for asphaltenes adsorption and oxidation: A critical review of challenges and recent progress. <i>Fuel</i> , 2020, 279, 117763.	3.4	44
77	Comparison of LSSVM model results with artificial neural network model for determination of the solubility of SO ₂ in ionic liquids. <i>Journal of Molecular Liquids</i> , 2020, 304, 112771.	2.3	31
78	Modeling CO ₂ Solubility in Water at High Pressure and Temperature Conditions. <i>Energy & Fuels</i> , 2020, 34, 4761-4776.	2.5	63
79	State-of-the-art modeling permeability of the heterogeneous carbonate oil reservoirs using robust computational approaches. <i>Fuel</i> , 2020, 268, 117389.	3.4	29
80	Integrating new emerging technologies for enhanced oil recovery: Ultrasonic, microorganism, and emulsion. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107229.	2.1	19
81	Iterative Ensemble Kalman Filter and genetic algorithm for automatic reconstruction of relative permeability curves in the subsurface multi-phase flow. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107264.	2.1	13
82	Experimental measurement and compositional modeling of crude oil viscosity at reservoir conditions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 109, 35-50.	2.7	30
83	Application of gene expression programming for predicting density of binary and ternary mixtures of ionic liquids and molecular solvents. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 63-74.	2.7	13
84	Proposing a rigorous empirical model for estimating the bubble point pressure in heterogeneous carbonate reservoirs. <i>Advances in Geo-Energy Research</i> , 2020, 4, 126-134.	3.1	6
85	Insights into the Effects of Pore Size Distribution on the Flowing Behavior of Carbonate Rocks: Linking a Nano-Based Enhanced Oil Recovery Method to Rock Typing. <i>Nanomaterials</i> , 2020, 10, 972.	1.9	39
86	Modeling viscosity of crude oil using k-nearest neighbor algorithm. <i>Advances in Geo-Energy Research</i> , 2020, 4, 435-447.	3.1	10
87	Modelling asphaltene precipitation titration data: A committee of machines and a group method of data handling. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 431-441.	0.9	14
88	Application of a new approach for modeling the oil field formation damage due to mineral scaling. <i>Oil and Gas Science and Technology</i> , 2019, 74, 62.	1.4	11
89	Data-driven modeling of interfacial tension in impure CO ₂ -brine systems with implications for geological carbon storage. <i>International Journal of Greenhouse Gas Control</i> , 2019, 90, 102811.	2.3	40
90	Modeling oil-brine interfacial tension at high pressure and high salinity conditions. <i>Journal of Petroleum Science and Engineering</i> , 2019, 183, 106413.	2.1	33

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91	Modeling temperature dependency of oil - water relative permeability in thermal enhanced oil recovery processes using group method of data handling and gene expression programming. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 724-743.	1.5	26
92	Application of Nanosilica for inhibition of fines migration during low salinity water injection: Experimental study, mechanistic understanding, and model development. Fuel, 2019, 242, 846-862.	3.4	31
93	Modeling temperature-based oil-water relative permeability by integrating advanced intelligent models with grey wolf optimization: Application to thermal enhanced oil recovery processes. Fuel, 2019, 242, 649-663.	3.4	51
94	Predicting solubility of CO ₂ in brine by advanced machine learning systems: Application to carbon capture and sequestration. Journal of CO ₂ Utilization, 2019, 33, 83-95.	3.3	75
95	Evolving new strategies to estimate reservoir oil formation volume factor: Smart modeling and correlation development. Journal of Petroleum Science and Engineering, 2019, 181, 106180.	2.1	10
96	Modeling interfacial tension of normal alkane-supercritical CO ₂ systems: Application to gas injection processes. Fuel, 2019, 253, 1436-1445.	3.4	13
97	Modeling asphaltene precipitation during natural depletion of reservoirs and evaluating screening criteria for stability of crude oils. Journal of Petroleum Science and Engineering, 2019, 181, 106127.	2.1	13
98	On the evaluation of density of ionic liquids: towards a comparative study. Chemical Engineering Research and Design, 2019, 147, 648-663.	2.7	26
99	Laboratory evaluation of nitrogen injection for enhanced oil recovery: Effects of pressure and induced fractures. Fuel, 2019, 253, 607-614.	3.4	19
100	An experimental study of Nanosilica application in reducing calcium sulfate scale at high temperatures during high and low salinity water injection. Journal of Petroleum Science and Engineering, 2019, 179, 7-18.	2.1	17
101	Estimating n-tetradecane/bitumen mixture viscosity in solvent-assisted oil recovery process using GEP and GMDH modeling approaches. Petroleum Science and Technology, 2019, 37, 1640-1647.	0.7	10
102	Rigorous prognostication of permeability of heterogeneous carbonate oil reservoirs: Smart modeling and correlation development. Fuel, 2019, 236, 110-123.	3.4	53
103	Rigorous silica solubility estimation in superheated steam: Smart modeling and comparative study. Environmental Progress and Sustainable Energy, 2019, 38, 13089.	1.3	4
104	Smart models for predicting under-saturated crude oil viscosity: a comparative study. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, 41, 2326-2333.	1.2	5
105	Integrating synthesized citric acid-coated magnetite nanoparticles with magnetic fields for enhanced oil recovery: Experimental study and mechanistic understanding. Journal of Petroleum Science and Engineering, 2019, 174, 425-436.	2.1	47
106	Modeling heat capacity of ionic liquids using group method of data handling: A hybrid and structure-based approach. International Journal of Heat and Mass Transfer, 2019, 129, 7-17.	2.5	34
107	Estimation of minimum miscibility pressure (MMP) in enhanced oil recovery (EOR) process by N ₂ flooding using different computational schemes. Fuel, 2019, 235, 1455-1474.	3.4	31
108	Application of Nanofluids in Enhanced Oil Recovery: A Systematic Literature Review and Organizing Framework. , 2019, , 433-451.		2

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109	Application of nanofluids for treating fines migration during hydraulic fracturing: Experimental study and mechanistic understanding. <i>Advances in Geo-Energy Research</i> , 2019, 3, 198-206.	3.1	48
110	A review on zeolitic imidazolate frameworks use for crude oil spills cleanup. <i>Advances in Geo-Energy Research</i> , 2019, 3, 320-342.	3.1	17
111	Viscosity of Nanofluid Systems: A Critical Evaluation of Modeling Approaches. , 2019, , 105-139.		0
112	Modeling minimum miscibility pressure during pure and impure CO ₂ flooding using hybrid of radial basis function neural network and evolutionary techniques. <i>Fuel</i> , 2018, 220, 270-282.	3.4	76
113	Toward mechanistic understanding of asphaltene aggregation behavior in toluene: The roles of asphaltene structure, aging time, temperature, and ultrasonic radiation. <i>Journal of Molecular Liquids</i> , 2018, 264, 410-424.	2.3	101
114	Application of a supervised learning machine for accurate prognostication of higher heating values of solid wastes. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2018, 40, 558-564.	1.2	22
115	Asphaltenes Adsorption onto Metal Oxide Nanoparticles: A Critical Evaluation of Measurement Techniques. <i>Energy & Fuels</i> , 2018, 32, 2213-2223.	2.5	57
116	Toward generalized models for estimating molecular weights and acentric factors of pure chemical compounds. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 2699-2717.	3.8	25
117	Rigorous prognostication of natural gas viscosity: Smart modeling and comparative study. <i>Fuel</i> , 2018, 222, 766-778.	3.4	51
118	Modeling interfacial tension in N ₂ /n-alkane systems using corresponding state theory: Application to gas injection processes. <i>Fuel</i> , 2018, 222, 779-791.	3.4	46
119	Accurate estimation of CO ₂ adsorption on activated carbon with multi-layer feed-forward neural network (MLFNN) algorithm. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 65-73.	1.2	46
120	On modeling of bitumen/n-tetradecane mixture viscosity: Application in solvent-assisted recovery method. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018, 13, e2152.	0.8	19
121	Applying SVM framework for modeling of CO ₂ solubility in oil during CO ₂ flooding. <i>Fuel</i> , 2018, 214, 73-87.	3.4	43
122	On the evaluation of the viscosity of nanofluid systems: Modeling and data assessment. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 81, 313-329.	8.2	183
123	New method for predicting n-tetradecane/bitumen mixture density: correlation development. <i>Oil and Gas Science and Technology</i> , 2018, 73, 35.	1.4	6
124	Rheological Behavior of Surface Modified Silica Nanoparticles Dispersed in Partially Hydrolyzed Polyacrylamide and Xanthan Gum Solutions: Experimental Measurements, Mechanistic Understanding, and Model Development. <i>Energy & Fuels</i> , 2018, 32, 10628-10638.	2.5	52
125	New empirical correlations for determination of Minimum Miscibility Pressure (MMP) during N ₂ -contaminated lean gas flooding. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 369-382.	2.7	27
126	Efficient estimation of hydrolyzed polyacrylamide (HPAM) solution viscosity for enhanced oil recovery process by polymer flooding. <i>Oil and Gas Science and Technology</i> , 2018, 73, 22.	1.4	37

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127	Enhanced Oil Recovery Using CO ₂ . , 2018, , 61-99.		12
128	Miscible Gas Injection Processes. , 2018, , 101-138.		5
129	Thermal Recovery Processes. , 2018, , 139-186.		5
130	On the evaluation of steam assisted gravity drainage in naturally fractured oil reservoirs. Petroleum, 2017, 3, 273-279.	1.3	14
131	Experimental assessment of a lysine derivative surfactant for enhanced oil recovery in carbonate rocks: Mechanistic and core displacement analysis. Journal of Molecular Liquids, 2017, 232, 310-318.	2.3	49
132	A soft-computing technique for prediction of water activity in PEG solutions. Colloid and Polymer Science, 2017, 295, 421-432.	1.0	10
133	Genetic programming (GP) approach for prediction of supercritical CO ₂ thermal conductivity. Chemical Engineering Research and Design, 2017, 122, 164-175.	2.7	50
134	Generalized models for predicting the critical properties of pure chemical compounds. Journal of Molecular Liquids, 2017, 240, 777-793.	2.3	18
135	Application of adaptive neuro fuzzy interface system optimized with evolutionary algorithms for modeling CO ₂ -crude oil minimum miscibility pressure. Fuel, 2017, 205, 34-45.	3.4	80
136	Modeling interfacial tension and minimum miscibility pressure in paraffin-nitrogen systems: Application to gas injection processes. Fuel, 2017, 205, 80-89.	3.4	59
137	Development of robust generalized models for estimating the normal boiling points of pure chemical compounds. Journal of Molecular Liquids, 2017, 242, 59-69.	2.3	33
138	Modeling gas/vapor viscosity of hydrocarbon fluids using a hybrid GMDH-type neural network system. Journal of Molecular Liquids, 2017, 236, 162-171.	2.3	52
139	On the evaluation of Alkaline-Surfactant-Polymer flooding in a field scale: Screening, modelling, and optimization. Canadian Journal of Chemical Engineering, 2017, 95, 1615-1625.	0.9	13
140	Toward genetic programming (GP) approach for estimation of hydrocarbon/water interfacial tension. Journal of Molecular Liquids, 2017, 230, 175-189.	2.3	54
141	Development of a robust model for prediction of under-saturated reservoir oil viscosity. Journal of Molecular Liquids, 2017, 229, 89-97.	2.3	31
142	Toward gene expression programming for accurate prognostication of the critical oil flow rate through the choke: correlation development. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 884-893.	0.8	25
143	Modeling of CO ₂ solubility in crude oil during carbon dioxide enhanced oil recovery using gene expression programming. Fuel, 2017, 210, 768-782.	3.4	65
144	Characterizing the CO ₂ -brine interfacial tension (IFT) using robust modeling approaches: A comparative study. Journal of Molecular Liquids, 2017, 246, 32-38.	2.3	47

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145	Accurate prediction of water dewpoint temperature in natural gas dehydrators using gene expression programming approach. <i>Journal of Molecular Liquids</i> , 2017, 243, 196-204.	2.3	28
146	Implementation of soft computing approaches for prediction of physicochemical properties of ionic liquid mixtures. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 425-439.	1.2	28
147	Accurate determination of the CO ₂ -crude oil minimum miscibility pressure of pure and impure CO ₂ streams: A robust modelling approach. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 253-261.	0.9	64
148	A rigorous approach for determining interfacial tension and minimum miscibility pressure in paraffin-CO ₂ systems: Application to gas injection processes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 107-115.	2.7	43
149	Effective Thermal Conductivity Modeling of Sandstones: SVM Framework Analysis. <i>International Journal of Thermophysics</i> , 2016, 37, 1.	1.0	51
150	On the evaluation of thermal conductivity of ionic liquids: Modeling and data assessment. <i>Journal of Molecular Liquids</i> , 2016, 224, 648-656.	2.3	26
151	A comprehensive study of phase equilibria in binary mixtures of carbon dioxide + alcohols: Application of a hybrid intelligent model (CSA-LSSVM). <i>Journal of Molecular Liquids</i> , 2016, 224, 745-756.	2.3	15
152	A lysine amino acid-based surfactant: Application in enhanced oil recovery. <i>Petroleum Science and Technology</i> , 2016, 34, 1521-1526.	0.7	26
153	On the evaluation of density of ionic liquid binary mixtures: Modeling and data assessment. <i>Journal of Molecular Liquids</i> , 2016, 222, 745-751.	2.3	25
154	Toward mechanistic understanding of natural surfactant flooding in enhanced oil recovery processes: The role of salinity, surfactant concentration and rock type. <i>Journal of Molecular Liquids</i> , 2016, 222, 632-639.	2.3	104
155	State-of-the-art adaptive mesh generator implementation for dynamic asphaltene deposition in four-phase flow simulator in near well-bore region. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 65, 242-255.	2.7	4
156	Determination of minimum miscibility pressure in N ₂ -crude oil system: A robust compositional model. <i>Fuel</i> , 2016, 182, 402-410.	3.4	37
157	A computational intelligence scheme for estimating electrical conductivity of ternary mixtures containing ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 221, 624-632.	2.3	23
158	Toward prediction of petroleum reservoir fluids properties: A rigorous model for estimation of solution gas-oil ratio. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 506-516.	2.1	51
159	On the evaluation of asphaltene precipitation titration data: Modeling and data assessment. <i>Fluid Phase Equilibria</i> , 2016, 415, 88-100.	1.4	55
160	Determination of asphaltene precipitation conditions during natural depletion of oil reservoirs: A robust compositional approach. <i>Fluid Phase Equilibria</i> , 2016, 412, 235-248.	1.4	25
161	Modeling the permeability of heterogeneous oil reservoirs using a robust method. <i>Geosciences Journal</i> , 2016, 20, 259-271.	0.6	10
162	A soft computing approach for the determination of crude oil viscosity: Light and intermediate crude oil systems. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 1-10.	2.7	54

#	ARTICLE	IF	CITATIONS
163	On determination of natural gas density: Least square support vector machine modeling approach. Journal of Natural Gas Science and Engineering, 2015, 22, 348-358.	2.1	55
164	Application of Wilcoxon generalized radial basis function network for prediction of natural gas compressibility factor. Journal of the Taiwan Institute of Chemical Engineers, 2015, 50, 131-141.	2.7	50
165	Experimental measurement of equilibrium interfacial tension of enriched miscible gas-crude oil systems. Journal of Molecular Liquids, 2015, 211, 63-70.	2.3	16
166	A smooth model for the estimation of gas/vapor viscosity of hydrocarbon fluids. Journal of Natural Gas Science and Engineering, 2015, 26, 1452-1459.	2.1	49
167	Rapid method for the determination of solution gas-oil ratios of petroleum reservoir fluids. Journal of Natural Gas Science and Engineering, 2015, 24, 500-509.	2.1	21
168	A rigorous approach to predict nitrogen-crude oil minimum miscibility pressure of pure and nitrogen mixtures. Fluid Phase Equilibria, 2015, 399, 30-39.	1.4	42
169	A CSA-LSSVM Model to Estimate Diluted Heavy Oil Viscosity in the Presence of Kerosene. Petroleum Science and Technology, 2015, 33, 1085-1092.	0.7	10
170	Using an artificial neural network to predict carbon dioxide compressibility factor at high pressure and temperature. Korean Journal of Chemical Engineering, 2015, 32, 2087-2096.	1.2	50
171	On the evaluation of Fast-SAGD process in naturally fractured heavy oil reservoir. Fuel, 2015, 143, 155-164.	3.4	34
172	Reservoir oil viscosity determination using a rigorous approach. Fuel, 2014, 116, 39-48.	3.4	122
173	Effect of operational parameters on SAGD performance in a dip heterogeneous fractured reservoir. Fuel, 2014, 122, 82-93.	3.4	62
174	Experimental Determination of Interfacial Tension and Miscibility of the CO ₂ -Crude Oil System; Temperature, Pressure, and Composition Effects. Journal of Chemical & Engineering Data, 2014, 59, 61-69.	1.0	157
175	Application of constrained multi-variable search methods for prediction of PVT properties of crude oil systems. Fluid Phase Equilibria, 2014, 363, 121-130.	1.4	69
176	Toward a predictive model for estimating viscosity of ternary mixtures containing ionic liquids. Journal of Molecular Liquids, 2014, 200, 340-348.	2.3	127
177	Experimental Determination of Equilibrium Interfacial Tension for Nitrogen-Crude Oil during the Gas Injection Process: The Role of Temperature, Pressure, and Composition. Journal of Chemical & Engineering Data, 2014, 59, 3461-3469.	1.0	45
178	Experimental measurement and modeling of saturated reservoir oil viscosity. Korean Journal of Chemical Engineering, 2014, 31, 1253-1264.	1.2	44
179	Toward mechanistic understanding of heavy crude oil/brine interfacial tension: The roles of salinity, temperature and pressure. Fluid Phase Equilibria, 2014, 375, 191-200.	1.4	225
180	Asphaltene precipitation due to natural depletion of reservoir: Determination using a SARA fraction based intelligent model. Fluid Phase Equilibria, 2013, 354, 177-184.	1.4	95

#	ARTICLE	IF	CITATIONS
181	Prediction of sour gas compressibility factor using an intelligent approach. Fuel Processing Technology, 2013, 116, 209-216.	3.7	84
182	Toward reservoir oil viscosity correlation. Chemical Engineering Science, 2013, 90, 53-68.	1.9	86
183	Experimental Measurement and Modeling of Heavy Crude Oil Rheological Behavior: The Roles of Asphaltene Fraction, Shear Rate, and Temperature. Journal of Dispersion Science and Technology, 0, , 141217111959003.	1.3	0
184	Introducing a Novel Approach for Oil-Soil Correlation based on Asphaltene Structure: X-ray Diffraction. Acta Geologica Sinica, 0, , .	0.8	1