

Mohammad Hossein Ahmadi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6333489/publications.pdf>

Version: 2024-02-01

239
papers

12,967
citations

12330

69
h-index

33894

99
g-index

247
all docs

247
docs citations

247
times ranked

6460
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dioxide emissions prediction of five Middle Eastern countries using artificial neural networks. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2023, 45, 9513-9525.	2.3	30
2	MD simulations of oil-in-water/water-in-oil emulsions during surfactant-steam co-injection in bitumen recovery. <i>Fuel</i> , 2022, 314, 122718.	6.4	20
3	Molecular dynamics simulation of oil detachment from hydrophobic quartz surfaces during steam-surfactant Co-injection. <i>Energy</i> , 2022, 254, 124434.	8.8	24
4	Investigation and modeling of energy consumption of tall office buildings in Iran's 'hot-arid' and 'cold' climate conditions. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 21-34.	2.6	4
5	Comprehensive molecular scale modeling of anionic surfactant-asphaltene interactions. <i>Fuel</i> , 2021, 288, 119729.	6.4	59
6	Thermodynamic assessment and performance optimization of solid oxide fuel cell-Stirling heat engine reverse osmosis desalination. <i>International Journal of Low-Carbon Technologies</i> , 2021, 16, 417-428.	2.6	14
7	Status of direct and indirect solar desalination methods: comprehensive review. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	17
8	Multi-objective optimization assessment of a new integrated scheme for co-production of natural gas liquids and liquefied natural gas. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101493.	2.7	7
9	Spotlight onto surfactant steam bitumen interfacial behavior via molecular dynamics simulation. <i>Scientific Reports</i> , 2021, 11, 19660.	3.3	26
10	Multi-objective optimization in a finite time thermodynamic method for dish-Stirling by branch and bound method and MOPSO algorithm. <i>Frontiers in Energy</i> , 2020, 14, 649-665.	2.3	14
11	Comparing various machine learning approaches in modeling the dynamic viscosity of CuO/water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2585-2599.	3.6	142
12	Evolving connectionist approaches to compute thermal conductivity of TiO ₂ /water nanofluid. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2020, 540, 122489.	2.6	49
13	An insight into the prediction of TiO ₂ /water nanofluid viscosity through intelligence schemes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2381-2394.	3.6	42
14	Exergetic, economic, and environmental analyses of combined cooling and power plants with parabolic solar collector. <i>Environmental Progress and Sustainable Energy</i> , 2020, 39, e13322.	2.3	25
15	Precise prediction of biogas thermodynamic properties by using ANN algorithm. <i>Renewable Energy</i> , 2020, 147, 179-191.	8.9	32
16	A numerical and experimental study on the energy efficiency of a regenerative Heat and Mass Exchanger utilizing the counter-flow Maisotsenko cycle. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 1-12.	3.1	118
17	Challenges and future of chemical assisted heavy oil recovery processes. <i>Advances in Colloid and Interface Science</i> , 2020, 275, 102081.	14.7	77
18	Comparison of kriging, machine learning algorithms and classical thermodynamics for correlating the formation conditions for CO ₂ gas hydrates and semi-clathrates. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103659.	4.4	9

#	ARTICLE	IF	CITATIONS
19	Interfacial and molecular interactions between fractions of heavy oil and surfactants in porous media: Comprehensive review. <i>Advances in Colloid and Interface Science</i> , 2020, 283, 102242.	14.7	46
20	Molecular Interactions between Asphaltene and Surfactants in a Hydrocarbon Solvent: Application to Asphaltene Dispersion. <i>Symmetry</i> , 2020, 12, 1767.	2.2	31
21	Evaluation of electrical efficiency of photovoltaic thermal solar collector. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 545-565.	3.1	75
22	Machine learning-based models for predicting permeability impairment due to scale deposition. <i>Journal of Petroleum Exploration and Production</i> , 2020, 10, 2873-2884.	2.4	42
23	Modeling thermal conductivity of ethylene glycol-based nanofluids using multivariate adaptive regression splines and group method of data handling artificial neural network. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2020, 14, 379-390.	3.1	16
24	Prediction of Thermo-Physical Properties of TiO ₂ -Al ₂ O ₃ /Water Nanoparticles by Using Artificial Neural Network. <i>Nanomaterials</i> , 2020, 10, 697.	4.1	71
25	Insight into the Interfacial Behavior of Surfactants and Asphaltenes: Molecular Dynamics Simulation Study. <i>Energy & Fuels</i> , 2020, 34, 13536-13551.	5.1	53
26	Modeling of heat transfer performance of carbon nanotube nanofluid in a tube with fixed wall temperature by using ANN-GA. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	54
27	Comparison of machine learning methods for estimating permeability and porosity of oil reservoirs via petro-physical logs. <i>Petroleum</i> , 2019, 5, 271-284.	2.8	112
28	Optimizing flow properties of the different nanofluids inside a circular tube by using entropy generation minimization approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 801-811.	3.6	22
29	Geothermal energy use in hydrogen production: A review. <i>International Journal of Energy Research</i> , 2019, 43, 7823.	4.5	45
30	Thermoelectric cooler and thermoelectric generator devices: A review of present and potential applications, modeling and materials. <i>Energy</i> , 2019, 186, 115849.	8.8	344
31	Smart modeling by using artificial intelligent techniques on thermal performance of flat-plate solar collector using nanofluid. <i>Energy Science and Engineering</i> , 2019, 7, 1649-1658.	4.0	101
32	Thermodynamic Assessment and Multi-Objective Optimization of Performance of Irreversible Dual-Miller Cycle. <i>Energies</i> , 2019, 12, 4000.	3.1	14
33	Precise smart model for estimating dynamic viscosity of SiO ₂ /ethylene glycol-water nanofluid. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 1095-1105.	3.1	34
34	A review on the utilized machine learning approaches for modeling the dynamic viscosity of nanofluids. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 114, 109345.	16.4	127
35	ANN-Based Prediction of Laboratory-Scale Performance of CO ₂ -Foam Flooding for Improving Oil Recovery. <i>Natural Resources Research</i> , 2019, 28, 1619-1637.	4.7	71
36	Current Status Investigation and Predicting Carbon Dioxide Emission in Latin American Countries by Connectionist Models. <i>Energies</i> , 2019, 12, 1916.	3.1	23

#	ARTICLE	IF	CITATIONS
37	Towards experimental and modeling study of heat transfer performance of water- SiO ₂ nanofluid in quadrangular cross-section channels. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 453-469.	3.1	31
38	Experimental and numerical investigations of a novel chimney system for power generation using the combination of fossil fuel power plant exhaust gases and ambient air. <i>Energy Science and Engineering</i> , 2019, 7, 764-776.	4.0	8
39	Machine learning models to predict bottom hole pressure in multi-phase flow in vertical oil production wells. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2928-2940.	1.7	34
40	A review on the approaches applied for cooling fuel cells. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 517-525.	4.8	111
41	Exergoeconomic comparison and optimization of organic Rankine cycle, trilateral Rankine cycle and transcritical carbon dioxide cycle for heat recovery of low-temperature geothermal water. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2019, 233, 1068-1084.	1.4	17
42	Applying GMDH neural network to estimate the thermal resistance and thermal conductivity of pulsating heat pipes. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 327-336.	3.1	45
43	Applicability of connectionist methods to predict dynamic viscosity of silver/water nanofluid by using ANN-MLP, MARS and MPR algorithms. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 220-228.	3.1	55
44	Predicting the efficiency of CuO/water nanofluid in heat pipe heat exchanger using neural network. <i>International Communications in Heat and Mass Transfer</i> , 2019, 104, 33-40.	5.6	79
45	A review on the applications of intelligence methods in predicting thermal conductivity of nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 827.	3.6	48
46	Development of Simple-to-Use Predictive Models to Determine Thermal Properties of Fe ₂ O ₃ /Water-Ethylene Glycol Nanofluid. <i>Computation</i> , 2019, 7, 18.	2.0	22
47	Optimization methods using artificial intelligence algorithms to estimate thermal efficiency of PV/T system. <i>Energy Science and Engineering</i> , 2019, 7, 821-834.	4.0	36
48	Application of fuzzy decision tree in EOR screening assessment. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 167-180.	4.2	29
49	Analytical Model for Leakage Detection in CO ₂ Sequestration in Deep Saline Aquifers: Application to ex Situ and in Situ CO ₂ Sequestration Processes. <i>ACS Omega</i> , 2019, 4, 21381-21394.	3.5	7
50	Sensitivity analysis and application of machine learning methods to predict the heat transfer performance of CNT/water nanofluid flows through coils. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 825-835.	4.8	141
51	Experimental and numerical analysis of a nanofluidic thermosyphon heat exchanger. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 40-47.	3.1	145
52	Rigorous smart model for predicting dynamic viscosity of Al ₂ O ₃ /water nanofluid. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 307-316.	3.6	57
53	Renewable energy harvesting with the application of nanotechnology: A review. <i>International Journal of Energy Research</i> , 2019, 43, 1387-1410.	4.5	125
54	New efficient tool diagnoses asphaltene stability: Utilization of refractive index. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1939-1948.	1.7	2

#	ARTICLE	IF	CITATIONS
55	Developing an ANFIS-based swarm concept model for estimating the relative viscosity of nanofluids. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019, 13, 26-39.	3.1	90
56	A proposed model to predict thermal conductivity ratio of Al ₂ O ₃ /EG nanofluid by applying least squares support vector machine (LSSVM) and genetic algorithm as a connectionist approach. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 135, 271-281.	3.6	109
57	Exergetic sustainability evaluation and optimization of an irreversible Brayton cycle performance. <i>Frontiers in Energy</i> , 2019, 13, 399-410.	2.3	12
58	Thermal conductivity ratio prediction of Al ₂ O ₃ /water nanofluid by applying connectionist methods. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 541, 154-164.	4.7	101
59	Developing a robust proxy model of CO ₂ injection: Coupling Boxâ€œBehnken design and a connectionist method. <i>Fuel</i> , 2018, 215, 904-914.	6.4	37
60	Connectionist intelligent model estimates of convective heat transfer coefficient of nanofluids in circular cross-sectional channels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 1213-1239.	3.6	45
61	Experimental investigation of graphene oxide nanofluid on heat transfer enhancement of pulsating heat pipe. <i>International Communications in Heat and Mass Transfer</i> , 2018, 91, 90-94.	5.6	187
62	Hybrid connectionist model determines CO ₂ â€œoil swelling factor. <i>Petroleum Science</i> , 2018, 15, 591-604.	4.9	14
63	Exergy and economic analyses of replacing feedwater heaters in a Rankine cycle with parabolic trough collectors. <i>Energy Reports</i> , 2018, 4, 243-251.	5.1	59
64	An accurate model to predict drilling fluid density at wellbore conditions. <i>Egyptian Journal of Petroleum</i> , 2018, 27, 1-10.	2.6	34
65	Enhancing and multi-objective optimising of the performance of Stirling engine using third-order thermodynamic analysis. <i>International Journal of Ambient Energy</i> , 2018, 39, 382-391.	2.5	5
66	Ground source heat pump carbon emissions and groundâ€œsource heat pump systems for heating and cooling of buildings: A review. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1241-1265.	2.3	55
67	New thermodynamic analysis and optimization of performance of an irreversible diesel cycle. <i>Environmental Progress and Sustainable Energy</i> , 2018, 37, 1475-1490.	2.3	13
68	Thermal conductivity and dynamic viscosity modeling of Fe ₂ O ₃ /water nanofluid by applying various connectionist approaches. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1301-1322.	2.1	44
69	Analysis Of Gas Production Data Via An Intelligent Model: Application Natural Gas Production. , 2018, , .		0
70	Application of nanofluids in thermosyphons: A review. <i>Journal of Molecular Liquids</i> , 2018, 272, 395-402.	4.9	116
71	Thermo-economic analysis and multi-objective optimization of micro-CHP Stirling system for different climates of Iran. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 388-403.	2.6	8
72	Modeling Thermal Conductivity Ratio of CuO/Ethylene Glycol Nanofluid by Using Artificial Neural Network. <i>Defect and Diffusion Forum</i> , 2018, 388, 39-43.	0.4	6

#	ARTICLE	IF	CITATIONS
73	Thermodynamic analysis of adsorption of a naturally derived surfactant onto shale sandstone reservoirs. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	16
74	Prediction and modeling of MWCNT/Carbon (60/40)/SAE 10 W 40/SAE 85 W 90(50/50) nanofluid viscosity using artificial neural network (ANN) and self-organizing map (SOM). <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 2275-2286.	3.6	51
75	Development of multilayer perceptron artificial neural network (MLP-ANN) and least square support vector machine (LSSVM) models to predict Nusselt number and pressure drop of TiO ₂ /water nanofluid flows through non-straight pathways. <i>Numerical Heat Transfer; Part A: Applications</i> , 2018, 74, 1190-1206.	2.1	55
76	Multiobjective optimization design of the solar field and reverse osmosis system with preheating feed water using Genetic algorithm. <i>Energy Science and Engineering</i> , 2018, 6, 624-642.	4.0	11
77	Medical and dental applications of renewable energy systems. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 320-326.	2.6	31
78	A review of thermal conductivity of various nanofluids. <i>Journal of Molecular Liquids</i> , 2018, 265, 181-188.	4.9	296
79	Applicability of connectionist methods to predict thermal resistance of pulsating heat pipes with ethanol by using neural networks. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 1079-1086.	4.8	41
80	Spotlight on the New Natural Surfactant Flooding in Carbonate Rock Samples in Low Salinity Condition. <i>Scientific Reports</i> , 2018, 8, 10985.	3.3	65
81	Heat transfer and entropy generation of the nanofluid flow inside sinusoidal wavy channels. <i>Journal of Molecular Liquids</i> , 2018, 269, 229-240.	4.9	92
82	Data Analytics Techniques for Performance Prediction of Steamflooding in Naturally Fractured Carbonate Reservoirs. <i>Energies</i> , 2018, 11, 292.	3.1	4
83	Determination of thermal conductivity ratio of CuO/ethylene glycol nanofluid by connectionist approach. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 383-395.	5.3	40
84	Applying GMDH artificial neural network in modeling CO ₂ emissions in four nordic countries. <i>International Journal of Low-Carbon Technologies</i> , 2018, 13, 266-271.	2.6	62
85	Factorial experimental design for the thermal performance of a double pipe heat exchanger using Al ₂ O ₃ -TiO ₂ hybrid nanofluid. <i>International Communications in Heat and Mass Transfer</i> , 2018, 97, 92-102.	5.6	140
86	Chemical Flooding. , 2018, , 187-205.		8
87	Waterflooding. , 2018, , 207-231.		0
88	Enhanced Oil Recovery (EOR) in Shale Oil Reservoirs. , 2018, , 269-290.		1
89	Analytical approach for leakage characterization in carbon sequestration in a bounded deep saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , 2018, 169, 772-784.	4.2	8
90	Thermo-economic and exergy assessment and optimization of performance of a hydrogen production system by using geothermal energy. <i>Energy and Environment</i> , 2018, 29, 1373-1392.	4.6	37

#	ARTICLE	IF	CITATIONS
91	Analysis of gas production data via an intelligent model: application to natural gas production. First Break, 2018, 36, 91-98.	0.4	3
92	Implementation Of Meta Heuristic Algorithm And Pressure Match Method To Observe Aquifer Constant In Retrograde Gas Condensate Reservoirs. , 2018, , .		0
93	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
94	Evolving simple-to-apply models for estimating thermal conductivity of supercritical CO ₂ . International Journal of Ambient Energy, 2017, 38, 300-307.	2.5	14
95	Robust correlation to predict dew point pressure of gas condensate reservoirs. Petroleum, 2017, 3, 340-347.	2.8	16
96	A cutting edge solution to monitor formation damage due to scale deposition: Application to oil recovery. Canadian Journal of Chemical Engineering, 2017, 95, 991-1003.	1.7	5
97	Gas Hydrates. , 2017, , 405-444.		2
98	Fluid Sampling. , 2017, , 293-332.		0
99	Retrograde Gas Condensate. , 2017, , 333-404.		1
100	Characterization of Shale Gas. , 2017, , 445-481.		1
101	Characterization of Shale Oil. , 2017, , 483-519.		1
102	Exergetic sustainability evaluation and multi-objective optimization of performance of an irreversible nanoscale Stirling refrigeration cycle operating with Maxwell-Boltzmann gas. Renewable and Sustainable Energy Reviews, 2017, 78, 80-92.	16.4	45
103	Energy, exergy and economic analyses of a novel system to recover waste heat and water in steam power plants. Energy Conversion and Management, 2017, 144, 351-360.	9.2	78
104	Investigation and optimization of performance of nano-scale Stirling refrigerator using working fluid as Maxwell-Boltzmann gases. Physica A: Statistical Mechanics and Its Applications, 2017, 483, 337-350.	2.6	21
105	Nano-surfactant flooding in carbonate reservoirs: A mechanistic study. European Physical Journal Plus, 2017, 132, 1.	2.6	45
106	Equilibrium ratio of hydrocarbons and non-hydrocarbons at reservoir conditions: Experimental and modeling study. Fuel, 2017, 210, 315-328.	6.4	3
107	A reliable strategy to calculate minimum miscibility pressure of CO ₂ -oil system in miscible gas flooding processes. Fuel, 2017, 208, 117-126.	6.4	35
108	Spotlight on the use of new natural surfactants in colloidal gas aphron (CGA) fluids: A mechanistic study. European Physical Journal Plus, 2017, 132, 1.	2.6	3

#	ARTICLE	IF	CITATIONS
109	A robust proxy for production well placement optimization problems. <i>Fuel</i> , 2017, 206, 467-481.	6.4	47
110	Thermal models for analysis of performance of Stirling engine: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 168-184.	16.4	131
111	Fast marching method assisted sector modeling: Application to simulation of giant reservoir models. <i>Journal of Petroleum Science and Engineering</i> , 2017, 149, 707-719.	4.2	15
112	GMDH algorithm for modeling the outlet temperatures of a solar chimney based on the ambient temperature. <i>Mechanics and Industry</i> , 2017, 18, 216.	1.3	40
113	Thermodynamic analysis and optimization of an irreversible nano scale dual cycle operating with Maxwell-Boltzmann gas. <i>Mechanics and Industry</i> , 2017, 18, 212.	1.3	6
114	Entransy analysis and optimization of irreversible Carnot-like heat engine. <i>Mechanics and Industry</i> , 2017, 18, 204.	1.3	6
115	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimisation of the Rankine cycle heat engine. <i>International Journal of Ambient Energy</i> , 2016, 37, 363-371.	2.5	24
116	Implementation of artificial neural-networks to model the performance parameters of Stirling engine. <i>Mechanics and Industry</i> , 2016, 17, 307.	1.3	13
117	Performance Optimization of a Solar-Driven Multi-Step Irreversible Brayton Cycle Based on a Multi-Objective Genetic Algorithm. <i>Oil and Gas Science and Technology</i> , 2016, 71, 16.	1.4	57
118	Prediction of performance of Stirling engine using least squares support machine technique. <i>Mechanics and Industry</i> , 2016, 17, 506.	1.3	16
119	Entransy analysis and optimization of performance of nano-scale irreversible Otto cycle operating with Maxwell-Boltzmann ideal gas. <i>Chemical Physics Letters</i> , 2016, 658, 293-302.	2.6	19
120	Estimation of the silica solubility in the superheated steam using <scp>LSSVM</scp> modeling approach. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 596-602.	2.3	13
121	Performance improvement of ionic surfactant flooding in carbonate rock samples by use of nanoparticles. <i>Petroleum Science</i> , 2016, 13, 725-736.	4.9	60
122	Use of nanoparticles to improve the performance of sodium dodecyl sulfate flooding in a sandstone reservoir. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	23
123	A simple approach for screening enhanced oil recovery methods: Application of artificial intelligence. <i>Petroleum Science and Technology</i> , 2016, 34, 1887-1893.	1.5	15
124	Thermodynamic analysis and optimisation of an irreversible radiative-type heat engine by using non-dominated sorting genetic algorithm. <i>International Journal of Ambient Energy</i> , 2016, 37, 403-408.	2.5	28
125	Estimation of water content of natural gases using particle swarm optimization method. <i>Petroleum Science and Technology</i> , 2016, 34, 595-600.	1.5	5
126	Adsorption of a nonionic surfactant onto a silica surface. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 1455-1460.	2.3	11

#	ARTICLE	IF	CITATIONS
127	A predictive model of chemical flooding for enhanced oil recovery purposes: Application of least square support vector machine. <i>Petroleum</i> , 2016, 2, 177-182.	2.8	35
128	Experimental investigation the effect of nanoparticles on the oil-water relative permeability. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	16
129	Designing a powered combined Otto and Stirling cycle power plant through multi-objective optimization approach. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 62, 585-595.	16.4	46
130	Experimental investigation the effect of nanoparticles on micellization behavior of a surfactant: Application to EOR. <i>Petroleum Science and Technology</i> , 2016, 34, 1055-1061.	1.5	23
131	Evaluation of the ability of the hydrophobic nanoparticles of SiO ₂ in the EOR process through carbonate rock samples. <i>Petroleum Science and Technology</i> , 2016, 34, 1048-1054.	1.5	28
132	Optimal design of an Otto cycle based on thermal criteria. <i>Mechanics and Industry</i> , 2016, 17, 111.	1.3	22
133	Optimization performance of irreversible refrigerators base on evolutionary algorithm. <i>Mechanics and Industry</i> , 2016, 17, 209.	1.3	5
134	Modeling and experimental verification of a 25W fabricated PEM fuel cell by parametric and GMDH-type neural network. <i>Mechanics and Industry</i> , 2016, 17, 105.	1.3	53
135	Solar radiation prediction based on ICA and HGAPSO for Kuhin City, Iran. <i>Mechanics and Industry</i> , 2016, 17, 509.	1.3	5
136	Evolving ICA and HGAPSO algorithms for prediction of outlet temperatures of constructed solar chimney. <i>International Journal of Low-Carbon Technologies</i> , 2016, , ctw008.	2.6	3
137	Multi-objective optimization and exergetic-sustainability of an irreversible nano scale Braysson cycle operating with Maxwell-Boltzmann gas. <i>AEJ - Alexandria Engineering Journal</i> , 2016, 55, 1785-1798.	6.4	23
138	Developing grey-box model to diagnose asphaltene stability in crude oils: Application of refractive index. <i>Petroleum</i> , 2016, 2, 369-380.	2.8	6
139	Prediction of natural gas hydrate inhibitor vaporization rate using particle swarm optimization approach. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 1706-1712.	2.3	9
140	Toward reliable model for prediction Drilling Fluid Density at wellbore conditions: A LSSVM model. <i>Neurocomputing</i> , 2016, 211, 143-149.	5.9	68
141	Prediction performance of natural gas dehydration units for water removal efficiency using a least-square support vector machine. <i>International Journal of Ambient Energy</i> , 2016, 37, 486-494.	2.5	21
142	Applying a sophisticated approach to predict CO ₂ solubility in brines: application to CO ₂ sequestration. <i>International Journal of Low-Carbon Technologies</i> , 2016, 11, 325-332.	2.6	67
143	Accurate prediction of properties of carbon dioxide for carbon capture and sequestration operations. <i>Petroleum Science and Technology</i> , 2016, 34, 97-103.	1.5	17
144	On the evaluation of asphaltene precipitation titration data: Modeling and data assessment. <i>Fluid Phase Equilibria</i> , 2016, 415, 88-100.	2.5	55

#	ARTICLE	IF	CITATIONS
145	Estimation of water-hydrocarbon mutual solubility in gas processing operations using an intelligent model. <i>Petroleum Science and Technology</i> , 2016, 34, 328-334.	1.5	5
146	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimization performance of actual power generating thermal cycles. <i>Applied Thermal Engineering</i> , 2016, 99, 996-1005.	6.0	62
147	Multi objective optimization of performance of three-heat-source irreversible refrigerators based algorithm NSGAI. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 784-794.	16.4	85
148	Numerical modeling of CO ₂ injection scenarios in petroleum reservoirs: Application to CO ₂ sequestration and EOR. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 30, 38-49.	4.4	63
149	Evolving machine learning models to predict hydrogen sulfide solubility in the presence of various ionic liquids. <i>Journal of Molecular Liquids</i> , 2016, 216, 411-422.	4.9	72
150	Experimental studies of ionic surfactant adsorption onto carbonate rocks. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 549-554.	2.3	6
151	Thermodynamic analysis and multi objective optimization of performance of solar dish Stirling engine by the centrality of entransy and entropy generation. <i>International Journal of Electrical Power and Energy Systems</i> , 2016, 78, 88-95.	5.5	115
152	Thermodynamic analysis and optimization for an irreversible heat pump working on reversed Brayton cycle. <i>Energy Conversion and Management</i> , 2016, 110, 260-267.	9.2	79
153	Low parameter model to monitor bottom hole pressure in vertical multiphase flow in oil production wells. <i>Petroleum</i> , 2016, 2, 258-266.	2.8	21
154	Optimization of powered Stirling heat engine with finite speed thermodynamics. <i>Energy Conversion and Management</i> , 2016, 108, 96-105.	9.2	59
155	Evolving simple-to-use method to determine water-oil relative permeability in petroleum reservoirs. <i>Petroleum</i> , 2016, 2, 67-78.	2.8	28
156	Thermodynamic analysis and optimization of the Atkinson engine by using NSGA-II. <i>International Journal of Low-Carbon Technologies</i> , 2016, 11, 317-324.	2.6	28
157	Development of robust model to estimate gas-oil interfacial tension using least square support vector machine: Experimental and modeling study. <i>Journal of Supercritical Fluids</i> , 2016, 107, 122-128.	3.2	54
158	Effect of operational parameters on the performance of carbonated water injection: Experimental and numerical modeling study. <i>Journal of Supercritical Fluids</i> , 2016, 107, 542-548.	3.2	26
159	Investigation of the effect of design parameters on power output and thermal efficiency of a Stirling engine by thermodynamic analysis. <i>International Journal of Low-Carbon Technologies</i> , 2016, 11, 141-156.	2.6	19
160	Thermodynamic optimisation of irreversible refrigerators base on NSGAI. <i>International Journal of Renewable Energy Technology</i> , 2015, 6, 261.	0.3	2
161	Thermodynamic analysis and evolutionary algorithm based on multi-objective optimization of performance for irreversible four-temperature-level refrigeration. <i>Mechanics and Industry</i> , 2015, 16, 207.	1.3	45
162	Using GMDH Neural Networks to Model the Power and Torque of a Stirling Engine. <i>Sustainability</i> , 2015, 7, 2243-2255.	3.2	73

#	ARTICLE	IF	CITATIONS
163	Developing a Robust Surrogate Model of Chemical Flooding Based on the Artificial Neural Network for Enhanced Oil Recovery Implications. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-9.	1.1	41
164	Connectionist intelligent model estimates output power and torque of Stirling engine. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 50, 871-883.	16.4	80
165	Prediction of Oil Production Rate Using Vapor-extraction Technique in Heavy Oil Recovery Operations. <i>Petroleum Science and Technology</i> , 2015, 33, 1764-1769.	1.5	10
166	Toward connectionist model for predicting bubble point pressure of crude oils: Application of artificial intelligence. <i>Petroleum</i> , 2015, 1, 307-317.	2.8	29
167	Evolving Smart Model to Predict the Combustion Front Velocity for In-situ Combustion. <i>Energy Technology</i> , 2015, 3, 128-135.	3.8	30
168	Thermodynamic and thermo-economic analysis and optimization of an irreversible regenerative closed Brayton cycle. <i>Energy Conversion and Management</i> , 2015, 94, 124-129.	9.2	97
169	Connectionist model for predicting minimum gas miscibility pressure: Application to gas injection process. <i>Fuel</i> , 2015, 148, 202-211.	6.4	65
170	Thermo-economic optimization of Stirling heat pump by using non-dominated sorting genetic algorithm. <i>Energy Conversion and Management</i> , 2015, 91, 315-322.	9.2	102
171	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
172	Prediction carbon dioxide solubility in presence of various ionic liquids using computational intelligence approaches. <i>Journal of Supercritical Fluids</i> , 2015, 98, 50-64.	3.2	184
173	A LSSVM approach for determining well placement and conning phenomena in horizontal wells. <i>Fuel</i> , 2015, 153, 276-283.	6.4	96
174	Thermodynamic analysis and performance optimization of irreversible Carnot refrigerator by using multi-objective evolutionary algorithms (MOEAs). <i>Renewable and Sustainable Energy Reviews</i> , 2015, 51, 1055-1070.	16.4	87
175	Determination of oil well production performance using artificial neural network (ANN) linked to the particle swarm optimization (PSO) tool. <i>Petroleum</i> , 2015, 1, 118-132.	2.8	111
176	Optimization performance and thermodynamic analysis of an irreversible nano scale Brayton cycle operating with Maxwell-Boltzmann gas. <i>Energy Conversion and Management</i> , 2015, 101, 592-605.	9.2	52
177	Thermo-economic modeling and optimization of an irreversible solar-driven heat engine. <i>Energy Conversion and Management</i> , 2015, 103, 616-622.	9.2	35
178	Experimental investigation of a natural surfactant adsorption on shale-sandstone reservoir rocks: Static and dynamic conditions. <i>Fuel</i> , 2015, 159, 15-26.	6.4	139
179	Thermo-economic and thermodynamic analysis and optimization of a two-stage irreversible heat pump. <i>Energy Conversion and Management</i> , 2015, 99, 81-91.	9.2	54
180	Phase equilibrium modeling of semi-clathrate hydrates of seven commonly gases in the presence of TBAB ionic liquid promoter based on a low parameter connectionist technique. <i>Journal of Supercritical Fluids</i> , 2015, 101, 184-192.	3.2	99

#	ARTICLE	IF	CITATIONS
181	Performance assessment and optimization of an irreversible nano-scale Stirling engine cycle operating with Maxwell-Boltzmann gas. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	46
182	Colloidal gas aphon drilling fluid properties generated by natural surfactants: Experimental investigation. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1109-1117.	4.4	28
183	Technical and economic feasibility study of flue gas injection in an Iranian oil field. <i>Petroleum</i> , 2015, 1, 217-222.	2.8	17
184	Solving asphaltene precipitation issue in vertical wells via redesigning of production facilities. <i>Petroleum</i> , 2015, 1, 139-145.	2.8	15
185	Phase Equilibrium Modeling of Clathrate Hydrates of Carbon Dioxide+1,4-Dioxine Using Intelligent Approaches. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 236-244.	2.4	29
186	Thermo-ecological analysis and optimization performance of an irreversible three-heat-source absorption heat pump. <i>Energy Conversion and Management</i> , 2015, 90, 175-183.	9.2	79
187	Wettability Alteration in Carbonate Rocks by Implementing New Derived Natural Surfactant: Enhanced Oil Recovery Applications. <i>Transport in Porous Media</i> , 2015, 106, 645-667.	2.6	115
188	Numerical modeling of robust production scenarios from shared oil reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 2015, 5, 55-71.	2.4	0
189	Optimal Design of a Solar-Driven Heat Engine Based on Thermal and Ecological Criteria. <i>Journal of Energy Engineering - ASCE</i> , 2015, 141, .	1.9	35
190	Connectionist technique estimates H ₂ S solubility in ionic liquids through a low parameter approach. <i>Journal of Supercritical Fluids</i> , 2015, 97, 81-87.	3.2	82
191	A rigorous model to predict the amount of Dissolved Calcium Carbonate Concentration throughout oil field brines: Side effect of pressure and temperature. <i>Fuel</i> , 2015, 139, 154-159.	6.4	88
192	Experimental and Theoretical Study of a New Plant Derived Surfactant Adsorption on Quartz Surface: Kinetic and Isotherm Methods. <i>Journal of Dispersion Science and Technology</i> , 2015, 36, 441-452.	2.4	37
193	Connectionist approach estimates gas-oil relative permeability in petroleum reservoirs: Application to reservoir simulation. <i>Fuel</i> , 2015, 140, 429-439.	6.4	92
194	Thermodynamic analysis and optimization of an irreversible Ericsson cryogenic refrigerator cycle. <i>Energy Conversion and Management</i> , 2015, 89, 147-155.	9.2	76
195	Developing Thermodynamic Micellization Approach to Model Asphaltene Precipitation Behavior. <i>Journal of Dispersion Science and Technology</i> , 2014, 35, 1325-1338.	2.4	10
196	Dependency of Critical Micellization Concentration of an Anionic Surfactant on Temperature and Potassium Chloride Salt. <i>Petroleum Science and Technology</i> , 2014, 32, 1913-1920.	1.5	8
197	Preliminary evaluation of mulberry leaf-derived surfactant on interfacial tension in an oil-aqueous system: EOR application. <i>Fuel</i> , 2014, 117, 749-755.	6.4	113
198	Evolving smart approach for determination dew point pressure through condensate gas reservoirs. <i>Fuel</i> , 2014, 117, 1074-1084.	6.4	124

#	ARTICLE	IF	CITATIONS
199	Multi-objective optimization of an irreversible Stirling cryogenic refrigerator cycle. Energy Conversion and Management, 2014, 82, 351-360.	9.2	98
200	Nanofluid in Hydrophilic State for EOR Implication Through Carbonate Reservoir. Journal of Dispersion Science and Technology, 2014, 35, 1537-1542.	2.4	24
201	Estimation of breakthrough time for water coning in fractured systems: Experimental study and connectionist modeling. AIChE Journal, 2014, 60, 1905-1919.	3.6	48
202	Prediction breakthrough time of water coning in the fractured reservoirs by implementing low parameter support vector machine approach. Fuel, 2014, 117, 579-589.	6.4	123
203	Evolving Connectionist Model to Monitor the Efficiency of an In-situ Combustion Process: Application to Heavy Oil Recovery. Energy Technology, 2014, 2, 811-818.	3.8	36
204	Thermodynamic and thermo-economic analysis and optimization of performance of irreversible four-temperature-level absorption refrigeration. Energy Conversion and Management, 2014, 88, 1051-1059.	9.2	94
205	Estimating hydrogen sulfide solubility in ionic liquids using a machine learning approach. Journal of Supercritical Fluids, 2014, 95, 525-534.	3.2	100
206	Fuzzy Modeling and Experimental Investigation of Minimum Miscible Pressure in Gas Injection Process. Fluid Phase Equilibria, 2014, 378, 1-12.	2.5	32
207	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
208	Connectionist model predicts the porosity and permeability of petroleum reservoirs by means of petro-physical logs: Application of artificial intelligence. Journal of Petroleum Science and Engineering, 2014, 123, 183-200.	4.2	117
209	Gas Analysis by In Situ Combustion in Heavy Oil Recovery Process: Experimental and Modeling Studies. Chemical Engineering and Technology, 2014, 37, 409-418.	1.5	41
210	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
211	New tools to determine bubble point pressure of crude oils: Experimental and modeling study. Journal of Petroleum Science and Engineering, 2014, 123, 207-216.	4.2	22
212	Evolving predictive model to determine condensate-to-gas ratio in retrograded condensate gas reservoirs. Fuel, 2014, 124, 241-257.	6.4	110
213	Thermodynamic optimization of Stirling heat pump based on multiple criteria. Energy Conversion and Management, 2014, 80, 319-328.	9.2	75
214	Robust intelligent tool for estimating dew point pressure in retrograded condensate gas reservoirs: Application of particle swarm optimization. Journal of Petroleum Science and Engineering, 2014, 123, 7-19.	4.2	69
215	Estimation of H ₂ S solubility in ionic liquids using a rigorous method. Journal of Supercritical Fluids, 2014, 92, 60-69.	3.2	59
216	Reservoir permeability prediction by neural networks combined with hybrid genetic algorithm and particle swarm optimization. Geophysical Prospecting, 2013, 61, 582-598.	1.9	179

#	ARTICLE	IF	CITATIONS
217	Designing a solar powered Stirling heat engine based on multiple criteria: Maximized thermal efficiency and power. <i>Energy Conversion and Management</i> , 2013, 75, 282-291.	9.2	216
218	Experimental study on adsorption of a new surfactant onto carbonate reservoir samples – application to EOR. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1439-1449.	1.7	86
219	Implementation of a high-performance surfactant for enhanced oil recovery from carbonate reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2013, 110, 66-73.	4.2	142
220	Geological storage of carbon dioxide by injection of carbonated water in an Iranian oil reservoir: A case study. <i>Journal of Petroleum Science and Engineering</i> , 2013, 111, 170-177.	4.2	27
221	Induced effect of adding nano silica on adsorption of a natural surfactant onto sandstone rock: Experimental and theoretical study. <i>Journal of Petroleum Science and Engineering</i> , 2013, 112, 239-247.	4.2	140
222	Experimental Study and Modeling of Ultrafiltration of Refinery Effluents Using a Hybrid Intelligent Approach. <i>Energy & Fuels</i> , 2013, 27, 3523-3537.	5.1	72
223	Thermodynamic Investigation of Asphaltene Precipitation during Primary Oil Production: Laboratory and Smart Technique. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 6009-6031.	3.7	86
224	Evolving artificial neural network and imperialist competitive algorithm for prediction oil flow rate of the reservoir. <i>Applied Soft Computing Journal</i> , 2013, 13, 1085-1098.	7.2	255
225	A developed smart technique to predict minimum miscible pressure – EOR implications. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1325-1337.	1.7	92
226	Experimental investigation of adsorption of a new nonionic surfactant on carbonate minerals. <i>Fuel</i> , 2013, 104, 462-467.	6.4	150
227	Determination of Drainage Area and Shape Factor of Vertical Wells in Naturally Fracture Reservoir with Help Well testing and Developed IPR Curve. , 2013, , .		2
228	Adsorption of Novel Nonionic Surfactant and Particles Mixture in Carbonates: Enhanced Oil Recovery Implication. <i>Energy & Fuels</i> , 2012, 26, 4655-4663.	5.1	148
229	New approach for prediction of asphaltene precipitation due to natural depletion by using evolutionary algorithm concept. <i>Fuel</i> , 2012, 102, 716-723.	6.4	134
230	Neural network based swarm concept for prediction asphaltene precipitation due to natural depletion. <i>Journal of Petroleum Science and Engineering</i> , 2012, 98-99, 40-49.	4.2	108
231	Nonionic Surfactant for Enhanced Oil Recovery from Carbonates: Adsorption Kinetics and Equilibrium. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9894-9905.	3.7	143
232	Effect of starting composition on formation of MoSi ₂ @SiC nanocomposite powder via ball milling. <i>Bulletin of Materials Science</i> , 2012, 35, 533-538.	1.7	9
233	Prediction of Condensate-to-Gas Ratio for Retrograde Gas Condensate Reservoirs Using Artificial Neural Network with Particle Swarm Optimization. <i>Energy & Fuels</i> , 2012, 26, 3432-3447.	5.1	137
234	Application Fuzzy Decision Tree Analysis for Prediction Condensate Gas Ratio: Case Study. <i>International Journal of Computer Applications</i> , 2012, 39, 23-28.	0.2	4

#	ARTICLE	IF	CITATIONS
235	Neural network based unified particle swarm optimization for prediction of asphaltene precipitation. Fluid Phase Equilibria, 2012, 314, 46-51.	2.5	134
236	Prediction of asphaltene precipitation using artificial neural network optimized by imperialist competitive algorithm. Journal of Petroleum Exploration and Production, 2011, 1, 99-106.	2.4	117
237	Investigation of the effects of ambient temperature and dimensional parameters on the performance of solar chimney power plants. International Journal of Low-Carbon Technologies, 0, , 1-14.	2.6	5
238	Energetic Study of Gasification System for Bio-Waste as Renewable Energy Resource: Case Study. Defect and Diffusion Forum, 0, 388, 44-60.	0.4	0
239	Applications of machine learning methods in modeling various types of heat pipes: a review. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	16