

Menad Nait Amar

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

722

citations

17

h-index

23

g-index

69

ext. papers

1,119

ext. citations

4.7

avg, IF

5.65

L-index

#	Paper	IF	Citations
63	Modeling temperature-based oil-water relative permeability by integrating advanced intelligent models with grey wolf optimization: Application to thermal enhanced oil recovery processes. <i>Fuel</i> , 2019 , 242, 649-663	7.1	39
62	Predicting solubility of CO ₂ in brine by advanced machine learning systems: Application to carbon capture and sequestration. <i>Journal of CO₂ Utilization</i> , 2019 , 33, 83-95	7.6	34
61	An efficient methodology for multi-objective optimization of water alternating CO ₂ EOR process. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 99, 154-165	5.3	32
60	Modeling CO ₂ Solubility in Water at High Pressure and Temperature Conditions. <i>Energy & Fuels</i> , 2020 , 34, 4761-4776	4.1	31
59	Optimization of WAG Process Using Dynamic Proxy, Genetic Algorithm and Ant Colony Optimization. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 6399-6412	2.5	30
58	Bottom hole pressure estimation using hybridization neural networks and grey wolves optimization. <i>Petroleum</i> , 2018 , 4, 419-429	4.1	30
57	Modeling solubility of sulfur in pure hydrogen sulfide and sour gas mixtures using rigorous machine learning methods. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 33274-33287	6.7	28
56	Application of hybrid support vector regression artificial bee colony for prediction of MMP in CO ₂ -EOR process. <i>Petroleum</i> , 2020 , 6, 415-422	4.1	25
55	Prediction of Lattice Constant of AX ₂ Cubic Crystals Using Gene Expression Programming. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6037-6045	3.4	24
54	Applying hybrid support vector regression and genetic algorithm to water alternating CO ₂ gas EOR 2020 , 10, 613-630		22
53	Modeling temperature dependency of oil - water relative permeability in thermal enhanced oil recovery processes using group method of data handling and gene expression programming. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2019 , 13, 724-743	4.5	21
52	Predicting thermal conductivity of carbon dioxide using group of data-driven models. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 113, 165-177	5.3	20
51	Toward smart schemes for modeling CO ₂ solubility in crude oil: Application to carbon dioxide enhanced oil recovery. <i>Fuel</i> , 2021 , 285, 119147	7.1	20
50	Modeling Wax Disappearance Temperature Using Advanced Intelligent Frameworks. <i>Energy & Fuels</i> , 2019 , 33, 10959-10968	4.1	19
49	On the evaluation of solubility of hydrogen sulfide in ionic liquids using advanced committee machine intelligent systems. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 118, 159-168	5.3	19
48	Evolving support vector regression using Grey Wolf optimization; forecasting the geomechanical properties of rock. <i>Engineering With Computers</i> , 2020 , 1	4.5	18
47	Modeling dew point pressure of gas condensate reservoirs: Comparison of hybrid soft computing approaches, correlations, and thermodynamic models. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 184, 106558	4.4	17

46	Prediction of Wax Appearance Temperature Using Artificial Intelligent Techniques. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 1319-1330	2.5	16
45	Rigorous Connectionist Models to Predict Carbon Dioxide Solubility in Various Ionic Liquids. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 304	2.6	15
44	Modeling minimum miscibility pressure of pure/impure CO ₂ -crude oil systems using adaptive boosting support vector regression: Application to gas injection processes. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 184, 106499	4.4	15
43	Modeling relative permeability of gas condensate reservoirs: Advanced computational frameworks. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 189, 106929	4.4	14
42	On the evaluation of thermal conductivity of nanofluids using advanced intelligent models. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 118, 104825	5.8	14
41	Modeling oil-brine interfacial tension at high pressure and high salinity conditions. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 183, 106413	4.4	13
40	Modeling viscosity of CO ₂ at high temperature and pressure conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 77, 103271	4.6	13
39	Prediction of CO ₂ diffusivity in brine using white-box machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 190, 107037	4.4	13
38	Adaptive surrogate modeling with evolutionary algorithm for well placement optimization in fractured reservoirs. <i>Applied Soft Computing Journal</i> , 2019 , 80, 177-191	7.5	12
37	Optimization of WAG in real geological field using rigorous soft computing techniques and nature-inspired algorithms. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 206, 109038	4.4	12
36	Prediction of hydrate formation temperature using gene expression programming. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 89, 103879	4.6	11
35	Smart Proxy Modeling of a Fractured Reservoir Model for Production Optimization: Implementation of Metaheuristic Algorithm and Probabilistic Application. <i>Natural Resources Research</i> , 2021 , 30, 2431-2462	4.9	10
34	Application of Low-Salinity Waterflooding in Carbonate Cores: A Geochemical Modeling Study. <i>Natural Resources Research</i> , 2021 , 30, 519-542	4.9	10
33	Hybrid soft computational approaches for modeling the maximum ultimate bond strength between the corroded steel reinforcement and surrounding concrete. <i>Neural Computing and Applications</i> , 2021 , 33, 6905-6920	4.8	10
32	Modeling interfacial tension of methane-brine systems at high pressure and high salinity conditions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 114, 125-141	5.3	9
31	Integrating new emerging technologies for enhanced oil recovery: Ultrasonic, microorganism, and emulsion. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 192, 107229	4.4	8
30	Two novel combined systems for predicting the peak shear strength using RBFNN and meta-heuristic computing paradigms. <i>Engineering With Computers</i> , 1	4.5	8
29	A combined support vector regression with firefly algorithm for prediction of bottom hole pressure. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	8

28	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	5.3	8
27	Viscosity of Ionic Liquids: Application of the Eyring's Theory and a Committee Machine Intelligent System. <i>Molecules</i> , 2020 , 26,	4.8	7
26	Modeling surface tension of ionic liquids by chemical structure-intelligence based models. <i>Journal of Molecular Liquids</i> , 2021 , 342, 116961	6	7
25	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	5.3	6
24	Integrating the LSSVM and RBFNN models with three optimization algorithms to predict the soil liquefaction potential. <i>Engineering With Computers</i> ,1	4.5	5
23	Application of nature-inspired algorithms and artificial neural network in waterflooding well control optimization. <i>Journal of Petroleum Exploration and Production</i> , 2021 , 11, 3103-3127	2.2	5
22	Modeling of methane adsorption capacity in shale gas formations using white-box supervised machine learning techniques. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 208, 109226	4.4	5
21	Automated Optimization of Well Placement via Adaptive Space-Filling Surrogate Modelling and Evolutionary Algorithm 2018 ,		5
20	Automated design of a new integrated intelligent computing paradigm for constructing a constitutive model applicable to predicting rock fractures. <i>Engineering With Computers</i> , 2020 , 1	4.5	4
19	A novel solution for simulating air overpressure resulting from blasting using an efficient cascaded forward neural network. <i>Engineering With Computers</i> ,1	4.5	4
18	Robust machine learning models of carbon dioxide trapping indexes at geological storage sites. <i>Fuel</i> , 2022 , 316, 123391	7.1	3
17	Improving the performance of LSSVM model in predicting the safety factor for circular failure slope through optimization algorithms. <i>Engineering With Computers</i> ,1	4.5	3
16	Well production forecast in Volve field: Application of rigorous machine learning techniques and metaheuristic algorithm. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109468	4.4	3
15	Applications of Artificial Intelligence Techniques in the Petroleum Industry 2020 ,		2
14	Towards improved genetic programming based-correlations for predicting the interfacial tension of the systems pure/impure CO ₂ -brine. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 127, 186-196	5.3	2
13	Predicting viscosity of CO ₂ -N ₂ gaseous mixtures using advanced intelligent schemes. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109359	4.4	2
12	Modelling density of pure and binary mixtures of normal alkanes: Comparison of hybrid soft computing techniques, gene expression programming, and equations of state. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 208, 109737	4.4	1
11	On the evaluation of permeability of heterogeneous carbonate reservoirs using rigorous data-driven techniques. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109685	4.4	1

10	Predicting wax deposition using robust machine learning techniques. <i>Petroleum</i> , 2021 ,	4.1	1
9	Predicting solubility of nitrous oxide in ionic liquids using machine learning techniques and gene expression programming. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 128, 156-156	5.3	1
8	Simulation of the ultimate conditions of fibre-reinforced polymer confined concrete using hybrid intelligence models. <i>Engineering Failure Analysis</i> , 2021 , 128, 105605	3.2	1
7	Application of machine learning methods for estimating and comparing the sulfur dioxide absorption capacity of a variety of deep eutectic solvents. <i>Journal of Cleaner Production</i> , 2022 , 132465	10.3	1
6	Robust smart schemes for modeling carbon dioxide uptake in metal-organic frameworks. <i>Fuel</i> , 2021 , 311, 122545	7.1	0
5	Modeling Solubility of Anhydrite and Gypsum in Aqueous Solutions: Implications for Swelling of Clay-Sulfate Rocks. <i>Rock Mechanics and Rock Engineering</i> , 1	5.7	0
4	Application of intelligent models in reservoir and production engineering 2020 , 79-227		
3	Weaknesses and strengths of intelligent models in petroleum industry 2020 , 295-301		
2	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	4.4	
1	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	6.1	