

Menad Nait Amar

List of Publications by Year in descending order

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66
papers

1,619
citations

218381

26
h-index

377514

34
g-index

69
all docs

69
docs citations

69
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.3	75
2	Modeling CO ₂ Solubility in Water at High Pressure and Temperature Conditions. <i>Energy & Fuels</i> , 2020, 34, 4761-4776.	2.5	63
3	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.	3.4	51
4	Bottom hole pressure estimation using hybridization neural networks and grey wolves optimization. <i>Petroleum</i> , 2018, 4, 419-429.	1.3	46
5	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.	3.8	45
6	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.	1.7	43
7	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.	2.7	41
8	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.	1.3	40
9	Evolving support vector regression using Grey Wolf optimization; forecasting the geomechanical properties of rock. <i>Engineering With Computers</i> , 2022, 38, 1819-1833.	3.5	40
10	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.	2.7	40
11	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.	2.7	38
12	Applying hybrid support vector regression and genetic algorithm to water alternating CO ₂ gas EOR. , 2020, 10, 613-630.		38
13	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.	2.1	36
14	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
15	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
16	Prediction of CO ₂ diffusivity in brine using white-box machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2020, 190, 107037.	2.1	33
17	Integrating the LSSVM and RBFNN models with three optimization algorithms to predict the soil liquefaction potential. <i>Engineering With Computers</i> , 2022, 38, 3611-3623.	3.5	33
18	Modeling viscosity of CO ₂ at high temperature and pressure conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 77, 103271.	2.1	30

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19	Prediction of Lattice Constant of A_{2X_6} Cubic Crystals Using Gene Expression Programming. Journal of Physical Chemistry B, 2020, 124, 6037-6045.	1.2	30
20	Experimental measurement and compositional modeling of crude oil viscosity at reservoir conditions. Journal of the Taiwan Institute of Chemical Engineers, 2020, 109, 35-50.	2.7	30
21	Hybrid soft computational approaches for modeling the maximum ultimate bond strength between the corroded steel reinforcement and surrounding concrete. Neural Computing and Applications, 2021, 33, 6905-6920.	3.2	30
22	Modeling relative permeability of gas condensate reservoirs: Advanced computational frameworks. Journal of Petroleum Science and Engineering, 2020, 189, 106929.	2.1	29
23	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
24	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
25	Optimization of WAG in real geological field using rigorous soft computing techniques and nature-inspired algorithms. Journal of Petroleum Science and Engineering, 2021, 206, 109038.	2.1	28
26	Robust machine learning models of carbon dioxide trapping indexes at geological storage sites. Fuel, 2022, 316, 123391.	3.4	28
27	Modeling Wax Disappearance Temperature Using Advanced Intelligent Frameworks. Energy & Fuels, 2019, 33, 10959-10968.	2.5	27
28	Well production forecast in Volve field: Application of rigorous machine learning techniques and metaheuristic algorithm. Journal of Petroleum Science and Engineering, 2022, 208, 109468.	2.1	27
29	Viscosity of Ionic Liquids: Application of the Eyring's Theory and a Committee Machine Intelligent System. Molecules, 2021, 26, 156.	1.7	27
30	Application of machine learning methods for estimating and comparing the sulfur dioxide absorption capacity of a variety of deep eutectic solvents. Journal of Cleaner Production, 2022, 363, 132465.	4.6	27
31	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
32	Rigorous Connectionist Models to Predict Carbon Dioxide Solubility in Various Ionic Liquids. Applied Sciences (Switzerland), 2020, 10, 304.	1.3	25
33	Modeling surface tension of ionic liquids by chemical structure-intelligence based models. Journal of Molecular Liquids, 2021, 342, 116961.	2.3	23
34	Adaptive surrogate modeling with evolutionary algorithm for well placement optimization in fractured reservoirs. Applied Soft Computing Journal, 2019, 80, 177-191.	4.1	22
35	Prediction of Wax Appearance Temperature Using Artificial Intelligent Techniques. Arabian Journal for Science and Engineering, 2020, 45, 1319-1330.	1.7	22
36	A combined support vector regression with firefly algorithm for prediction of bottom hole pressure. SN Applied Sciences, 2020, 2, 1.	1.5	22

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37	Prediction of hydrate formation temperature using gene expression programming. Journal of Natural Gas Science and Engineering, 2021, 89, 103879.	2.1	22
38	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
39	Improving the performance of LSSVM model in predicting the safety factor for circular failure slope through optimization algorithms. Engineering With Computers, 2022, 38, 1755-1766.	3.5	21
40	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
41	Application of Low-Salinity Waterflooding in Carbonate Cores: A Geochemical Modeling Study. Natural Resources Research, 2021, 30, 519-542.	2.2	20
42	Smart Proxy Modeling of a Fractured Reservoir Model for Production Optimization: Implementation of Metaheuristic Algorithm and Probabilistic Application. Natural Resources Research, 2021, 30, 2431-2462.	2.2	20
43	Towards improved genetic programming based-correlations for predicting the interfacial tension of the systems pure/impure CO ₂ -brine. Journal of the Taiwan Institute of Chemical Engineers, 2021, 127, 186-196.	2.7	20
44	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
45	Integrating new emerging technologies for enhanced oil recovery: Ultrasonic, microorganism, and emulsion. Journal of Petroleum Science and Engineering, 2020, 192, 107229.	2.1	19
46	Intelligent prediction of rock mass deformation modulus through three optimized cascaded forward neural network models. Earth Science Informatics, 2022, 15, 1659-1669.	1.6	19
47	Application of nature-inspired algorithms and artificial neural network in waterflooding well control optimization. Journal of Petroleum Exploration and Production, 2021, 11, 3103-3127.	1.2	18
48	Simulation of the ultimate conditions of fibre-reinforced polymer confined concrete using hybrid intelligence models. Engineering Failure Analysis, 2021, 128, 105605.	1.8	17
49	A novel solution for simulating air overpressure resulting from blasting using an efficient cascaded forward neural network. Engineering With Computers, 2022, 38, 2069-2081.	3.5	14
50	Predicting solubility of nitrous oxide in ionic liquids using machine learning techniques and gene expression programming. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 156-168.	2.7	14
51	Application of gene expression programming for predicting density of binary and ternary mixtures of ionic liquids and molecular solvents. Journal of the Taiwan Institute of Chemical Engineers, 2020, 117, 63-74.	2.7	13
52	Robust smart schemes for modeling carbon dioxide uptake in metal-organic frameworks. Fuel, 2022, 311, 122545.	3.4	13
53	Two novel combined systems for predicting the peak shear strength using RBFNN and meta-heuristic computing paradigms. Engineering With Computers, 2022, 38, 129-140.	3.5	11
54	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

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55	Production optimization under waterflooding with long short-term memory and metaheuristic algorithm. <i>Petroleum</i> , 2023, 9, 53-60.	1.3	10
56	Modeling Solubility of Anhydrite and Gypsum in Aqueous Solutions: Implications for Swelling of Clay-Sulfate Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4391-4402.	2.6	10
57	Automated design of a new integrated intelligent computing paradigm for constructing a constitutive model applicable to predicting rock fractures. <i>Engineering With Computers</i> , 2022, 38, 667-678.	3.5	9
58	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.	2.1	9
59	Predicting wax deposition using robust machine learning techniques. <i>Petroleum</i> , 2022, 8, 167-173.	1.3	8
60	Automated Optimization of Well Placement via Adaptive Space-Filling Surrogate Modelling and Evolutionary Algorithm. , 2018, , .		7
61	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
62	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
63	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
64	Towards robust models for predicting carbon dioxide absorption by nanofluids. , 0, , .		2
65	Application of intelligent models in reservoir and production engineering. , 2020, , 79-227.		1
66	Weaknesses and strengths of intelligent models in petroleum industry. , 2020, , 295-301.		0