Menad Nait Amar

List of Publications by Year in Descending Order

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	Robust machine learning models of carbon dioxide trapping indexes at geological storage sites. *Fuel*, **2022**, 316, 123391	7.1	3
62	On the evaluation of permeability of heterogeneous carbonate reservoirs using rigorous data-driven techniques. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109685	4.4	1
61	Well production forecast in Volve field: Application of rigorous machine learning techniques and metaheuristic algorithm. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109468	4.4	3
60	Predicting viscosity of CO2N2 gaseous mixtures using advanced intelligent schemes. *Journal of Petroleum Science and Engineering*, **2022**, 208, 109359	4.4	2
59	On the evaluation of the interfacial tension of immiscible binary systems of methane, carbon dioxide, and nitrogen-alkanes using robust data-driven approaches. *AEJ - Alexandria Engineering Journal*, **2022**, 61, 11601-11614	6.1	
58	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**, 132465	10.3	1
57	Robust smart schemes for modeling carbon dioxide uptake in metal organic frameworks. *Fuel*, **2021**, 311, 122545	7.1	0
56	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*, **2021**, 208, 109737	4.4	1
55	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	4.9	10
54	Prediction of hydrate formation temperature using gene expression programming. *Journal of Natural Gas Science and Engineering*, **2021**, 89, 103879	4.6	11
53	Application of nature-inspired algorithms and artificial neural network in waterflooding well control optimization. *Journal of Petroleum Exploration and Production*, **2021**, 11, 3103-3127	2.2	5
52	Modeling of methane adsorption capacity in shale gas formations using white-box supervised machine learning techniques. *Journal of Petroleum Science and Engineering*, **2021**, 208, 109226	4.4	5
51	Predicting wax deposition using robust machine learning techniques. *Petroleum*, **2021**,	4.1	1
50	Application of Low-Salinity Waterflooding in Carbonate Cores: A Geochemical Modeling Study. *Natural Resources Research*, **2021**, 30, 519-542	4.9	10
49	Toward smart schemes for modeling CO2 solubility in crude oil: Application to carbon dioxide enhanced oil recovery. *Fuel*, **2021**, 285, 119147	7.1	20
48	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	4.8	10
47	On the evaluation of solubility of hydrogen sulfide in ionic liquids using advanced committee machine intelligent systems. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 118, 159-168	5.3	19

46	Modeling surface tension of ionic liquids by chemical structure-intelligence based models. *Journal of Molecular Liquids*, **2021**, 342, 116961	6	7
45	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, 156-156	5.3	1
44	Simulation of the ultimate conditions of fibre-reinforced polymer confined concrete using hybrid intelligence models. *Engineering Failure Analysis*, **2021**, 128, 105605	3.2	1
43	Towards improved genetic programming based-correlations for predicting the interfacial tension of the systems pure/impure CO2-brine. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 127, 186-196	5.3	2
42	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	4.4	12
41	Modeling the density of acid gases at extensive ranges of pressure and temperature conditions. *Journal of Petroleum Science and Engineering*, **2021**, 207, 109063	4.4	
40	Application of intelligent models in reservoir and production engineering **2020**, 79-227		
39	Modeling viscosity of CO2 at high temperature and pressure conditions. *Journal of Natural Gas Science and Engineering*, **2020**, 77, 103271	4.6	13
38	Rigorous Connectionist Models to Predict Carbon Dioxide Solubility in Various Ionic Liquids. *Applied Sciences (Switzerland)*, **2020**, 10, 304	2.6	15
37	Prediction of Lattice Constant of AXY Cubic Crystals Using Gene Expression Programming. *Journal of Physical Chemistry B*, **2020**, 124, 6037-6045	3.4	24
36	Prediction of CO2 diffusivity in brine using white-box machine learning. *Journal of Petroleum Science and Engineering*, **2020**, 190, 107037	4.4	13
35	Modeling CO2 Solubility in Water at High Pressure and Temperature Conditions. *Energy & Fuels*, **2020**, 34, 4761-4776	4.1	31
34	Applying hybrid support vector regression and genetic algorithm to water alternating CO2 gas EOR **2020**, 10, 613-630		22
33	Integrating new emerging technologies for enhanced oil recovery: Ultrasonic, microorganism, and emulsion. *Journal of Petroleum Science and Engineering*, **2020**, 192, 107229	4.4	8
32	Viscosity of Ionic Liquids: Application of the Eyring% Theory and a Committee Machine Intelligent System. *Molecules*, **2020**, 26,	4.8	7
31	Applications of Artificial Intelligence Techniques in the Petroleum Industry **2020**,		2
30	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	5.3	6
29	Modeling relative permeability of gas condensate reservoirs: Advanced computational frameworks. *Journal of Petroleum Science and Engineering*, **2020**, 189, 106929	4.4	14

28	Prediction of Wax Appearance Temperature Using Artificial Intelligent Techniques. *Arabian Journal for Science and Engineering*, **2020**, 45, 1319-1330	2.5	16
27	A combined support vector regression with firefly algorithm for prediction of bottom hole pressure. *SN Applied Sciences*, **2020**, 2, 1	1.8	8
26	On the evaluation of thermal conductivity of nanofluids using advanced intelligent models. *International Communications in Heat and Mass Transfer*, **2020**, 118, 104825	5.8	14
25	Predicting thermal conductivity of carbon dioxide using group of data-driven models. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 113, 165-177	5.3	20
24	Weaknesses and strengths of intelligent models in petroleum industry **2020**, 295-301		
23	Evolving support vector regression using Grey Wolf optimization; forecasting the geomechanical properties of rock. *Engineering With Computers*, **2020**, 1	4.5	18
22	Modeling solubility of sulfur in pure hydrogen sulfide and sour gas mixtures using rigorous machine learning methods. *International Journal of Hydrogen Energy*, **2020**, 45, 33274-33287	6.7	28
21	Automated design of a new integrated intelligent computing paradigm for constructing a constitutive model applicable to predicting rock fractures. *Engineering With Computers*, **2020**, 1	4.5	4
20	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	5.3	9
19	Application of hybrid support vector regression artificial bee colony for prediction of MMP in CO2-EOR process. *Petroleum*, **2020**, 6, 415-422	4.1	25
18	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	4.4	15
17	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	4.4	17
16	Experimental measurement and compositional modeling of crude oil viscosity at reservoir conditions. *Journal of the Taiwan Institute of Chemical Engineers*, **2020**, 109, 35-50	5.3	8
15	Modeling oil-brine interfacial tension at high pressure and high salinity conditions. *Journal of Petroleum Science and Engineering*, **2019**, 183, 106413	4.4	13
14	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	4.5	21
13	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	7.1	39
12	Predicting solubility of CO2 in brine by advanced machine learning systems: Application to carbon capture and sequestration. *Journal of CO2 Utilization*, **2019**, 33, 83-95	7.6	34
11	Adaptive surrogate modeling with evolutionary algorithm for well placement optimization in fractured reservoirs. *Applied Soft Computing Journal*, **2019**, 80, 177-191	7.5	12

10	An efficient methodology for multi-objective optimization of water alternating CO2 EOR process. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 99, 154-165	5.3	32
9	Modeling Wax Disappearance Temperature Using Advanced Intelligent Frameworks. *Energy & Fuels*, **2019**, 33, 10959-10968	4.1	19
8	Optimization of WAG Process Using Dynamic Proxy, Genetic Algorithm and Ant Colony Optimization. *Arabian Journal for Science and Engineering*, **2018**, 43, 6399-6412	2.5	30
7	Bottom hole pressure estimation using hybridization neural networks and grey wolves optimization. *Petroleum*, **2018**, 4, 419-429	4.1	30
6	Automated Optimization of Well Placement via Adaptive Space-Filling Surrogate Modelling and Evolutionary Algorithm **2018**,		5
5	Two novel combined systems for predicting the peak shear strength using RBFNN and meta-heuristic computing paradigms. *Engineering With Computers*,1	4.5	8
4	A novel solution for simulating air overpressure resulting from blasting using an efficient cascaded forward neural network. *Engineering With Computers*,1	4.5	4
3	Integrating the LSSVM and RBFNN models with three optimization algorithms to predict the soil liquefaction potential. *Engineering With Computers*,1	4.5	5
2	Improving the performance of LSSVM model in predicting the safety factor for circular failure slope through optimization algorithms. *Engineering With Computers*,1	4.5	3
1	Modeling Solubility of Anhydrite and Gypsum in Aqueous Solutions: Implications for Swelling of Clay-Sulfate Rocks. *Rock Mechanics and Rock Engineering*,1	5.7	0