

Salaheldin Mahmoud Elkatatny

List of Publications by Year in Descending Order

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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.

253
papers

2,715
citations

25
h-index

37
g-index

275
ext. papers

3,821
ext. citations

3
avg, IF

6.66
L-index

#	Paper	IF	Citations
253	Prediction of Water Saturation in Tight Gas Sandstone Formation Using Artificial Intelligence.. <i>ACS Omega</i> , 2022 , 7, 215-222	3.9	1
252	Application of Various Machine Learning Techniques in Predicting Water Saturation in Tight Gas Sandstone Formation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	2
251	Ilmenite Inclusion: A Solution towards Solid Sagging for Hematite-Based Invert Emulsion Mud. <i>Geofluids</i> , 2022 , 2022, 1-9	1.5	1
250	A Novel Artificial Neural Network-Based Correlation for Evaluating the Rate of Penetration in a Natural Gas Bearing Sandstone Formation: A Case Study in a Middle East Oil Field. <i>Journal of Sensors</i> , 2022 , 2022, 1-14	2	0
249	The Use of Graphite to Improve the Stability of Saudi Class G Oil-Well Cement against the Carbonation Process.. <i>ACS Omega</i> , 2022 , 7, 5764-5773	3.9	1
248	Real-time prediction of in-situ stresses while drilling using surface drilling parameters from gas reservoir. <i>Journal of Natural Gas Science and Engineering</i> , 2022 , 97, 104368	4.6	0
247	Prevention of hematite settling using perlite in water-based drilling fluid. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 210, 110030	4.4	1
246	A Self-Adaptive Artificial Neural Network Technique to Estimate Static Young's Modulus Based on Well Logs 2022 ,		3
245	Artificial neural networks-based correlation for evaluating the rate of penetration in a vertical carbonate formation for an entire oil field. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109693	4.4	0
244	Prediction of Surface Oil Rates for Volatile Oil and Gas Condensate Reservoirs Using Artificial Intelligence Techniques. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	7
243	Predicting the Rock Sonic Logs While Drilling by Random Forest and Decision Tree-Based Algorithms. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	2
242	Detection of Loss Zones While Drilling Using Different Machine Learning Techniques. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	1
241	Estimating the Total Organic Carbon for Unconventional Shale Resources During the Drilling Process: A Machine Learning Approach. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	3
240	Sagging Prevention for Hematite-Based Invert Emulsion Mud. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	3
239	Applying Different Artificial Intelligence Techniques in Dynamic Poisson's Ratio Prediction Using Drilling Parameters. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022 , 144,	2.6	3
238	Geopolymer as the future oil-well cement: A review. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109485	4.4	4
237	Rate of penetration prediction while drilling vertical complex lithology using an ensemble learning model. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109335	4.4	3

236	Vermiculite for enhancement of barite stability in water-based mud at elevated temperature. <i>Powder Technology</i> , 2022 , 401, 117277	5.2	1
235	Effect of Elevated Temperature on the Microstructure of Metakaolin-Based Geopolymer.. <i>ACS Omega</i> , 2022 , 7, 10268-10276	3.9	2
234	Bulk density prediction while drilling vertical complex lithology using artificial intelligence. <i>Journal of Applied Geophysics</i> , 2022 , 199, 104574	1.7	
233	Utilization of adaptive neuro-fuzzy interference system and functional network in prediction of total organic carbon content. <i>SN Applied Sciences</i> , 2022 , 4, 1	1.8	
232	A review of the various treatments of oil-based drilling fluids filter cakes. <i>Journal of Petroleum Exploration and Production</i> , 2022 , 12, 365-381	2.2	3
231	Prediction of cohesion and friction angle from well-logging data using decision tree and random forest. <i>Arabian Journal of Geosciences</i> , 2022 , 15, 1	1.8	1
230	Evaluation of Qusaiba Kaolinitic Shale as a Supplementary Cementitious Material in Lightweight Oil-Well Cement Formulation.. <i>ACS Omega</i> , 2022 , 7, 15090-15097	3.9	1
229	New Empirical Correlations to Estimate the Least Principal Stresses Using Conventional Logging Data.. <i>ACS Omega</i> , 2022 , 7, 13507-13519	3.9	0
228	Machine Learning Model for Monitoring Rheological Properties of Synthetic Oil-Based Mud.. <i>ACS Omega</i> , 2022 , 7, 15603-15614	3.9	0
227	The role of overbalance pressure on mud induced alteration of sandstone rock pore system.. <i>Scientific Reports</i> , 2022 , 12, 8367	4.9	0
226	Removal of Hematite Water-Based Filter Cake Using Hydrochloric Acid. <i>Geofluids</i> , 2022 , 2022, 1-10	1.5	
225	Use of Machine Learning and Data Analytics to Detect Downhole Abnormalities While Drilling Horizontal Wells, With Real Case Study. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	19
224	Fracture Pressure Prediction Using Surface Drilling Parameters by Artificial Intelligence Techniques. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	4
223	Prediction of the Least Principal Stresses Using Drilling Data: A Machine Learning Application. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 8865827	3	1
222	Machine learning models for generating the drilled porosity log for composite formations. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	1
221	Machine Learning Models for Equivalent Circulating Density Prediction from Drilling Data. <i>ACS Omega</i> , 2021 , 6, 27430-27442	3.9	3
220	Prediction of oil rates using Machine Learning for high gas oil ratio and water cut reservoirs. <i>Flow Measurement and Instrumentation</i> , 2021 , 82, 102065	2.2	
219	Real-Time Prediction of Equivalent Circulation Density for Horizontal Wells Using Intelligent Machines. <i>ACS Omega</i> , 2021 , 6, 934-942	3.9	6

218	Overview of the lightweight oil-well cement mechanical properties for shallow wells. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 198, 108201	4.4	5
217	Barium Sulfate Scale Removal at Low-Temperature. <i>Geofluids</i> , 2021 , 2021, 1-12	1.5	1
216	Applications of Biodiesel in Drilling Fluids. <i>Geofluids</i> , 2021 , 2021, 1-11	1.5	1
215	Real-time static Poisson's ratio prediction of vertical complex lithology from drilling parameters using artificial intelligence models. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	3
214	Enhancement of Static and Dynamic Sag Performance of Water-Based Mud Using a Synthetic Clay. <i>ACS Omega</i> , 2021 , 6, 8179-8188	3.9	0
213	Novel Empirical Correlation for Estimation of the Total Organic Carbon in Devonian Shale From the Spectral Gamma-Ray and Based on the Artificial Neural Networks. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	3
212	Estimation of the Rate of Penetration While Horizontally Drilling Carbonate Formation Using Random Forest. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	7
211	The prediction of wellhead pressure for multiphase flow of vertical wells using artificial neural networks. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	2
210	Investigation of Dehydroxylated Sodium Bentonite as a Pozzolanic Extender in Oil-Well Cement. <i>SPE Drilling and Completion</i> , 2021 , 36, 730-737	1.4	0
209	New correlations for better monitoring the all-oil mud rheology by employing artificial neural networks. <i>Flow Measurement and Instrumentation</i> , 2021 , 78, 101914	2.2	11
208	Effect of perlite particles on the properties of oil-well class G cement. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 199, 108344	4.4	4
207	Data-Driven Modeling Approach for Pore Pressure Gradient Prediction while Drilling from Drilling Parameters. <i>ACS Omega</i> , 2021 , 6, 13807-13816	3.9	1
206	Applications of Artificial Intelligence for Static Poisson's Ratio Prediction While Drilling. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9956128	3	2
205	Rock Strength Prediction in Real-Time While Drilling Employing Random Forest and Functional Network Techniques. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021 , 143,	2.6	12
204	Real-Time Prediction of Acoustic Velocities While Drilling Vertical Complex Lithology Using AI Technique. <i>Petrophysics</i> , 2021 , 62, 265-281	2	3
203	Improved Tracking of the Rheological Properties of Max-Bridge Oil-Based Mud Using Artificial Neural Networks. <i>ACS Omega</i> , 2021 , 6, 15816-15826	3.9	1
202	Real-time prediction of Poisson's ratio from drilling parameters using machine learning tools. <i>Scientific Reports</i> , 2021 , 11, 12611	4.9	3
201	Effect of Different Weighting Agents on Drilling Fluids and Filter Cake Properties in Sandstone Formations. <i>ACS Omega</i> , 2021 , 6, 16176-16186	3.9	9

200	Intelligent Prediction for Rock Porosity While Drilling Complex Lithology in Real Time. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9960478	3	6
199	Effect of Bentonite Prehydration Time on the Stability of Lightweight Oil-Well Cement System. <i>Geofluids</i> , 2021 , 2021, 1-8	1.5	0
198	Utilization of Artificial Neural Network in Predicting the Total Organic Carbon in Devonian Shale Using the Conventional Well Logs and the Spectral Gamma Ray. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 2486046	3	1
197	Influence of mud filtrate on the pore system of different sandstone rocks. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 202, 108595	4.4	6
196	Real-time prediction of rate of penetration while drilling complex lithologies using artificial intelligence techniques. <i>Ain Shams Engineering Journal</i> , 2021 , 12, 917-926	4.4	5
195	An Overview of the Common Water-Based Formulations Used for Drilling Onshore Gas Wells in the Middle East. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6867-6877	2.5	10
194	Improved carbonation resistance and durability of Saudi Class G oil well cement sheath in CO ₂ rich environments using laponite. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107812	4.4	1
193	Stability Enhancing of Water-Based Drilling Fluid at High Pressure High Temperature. <i>Arabian Journal for Science and Engineering</i> , 2021 , 46, 6895-6901	2.5	6
192	Development of a Unique Organic Acid Solution for Removing Composite Field Scales. <i>ACS Omega</i> , 2021 , 6, 1205-1215	3.9	3
191	Investigating the Alteration of Sandstone Pore System and Rock Features by Role of Weighting Materials. <i>ACS Omega</i> , 2021 , 6, 4100-4110	3.9	4
190	Unconfined compressive strength (UCS) prediction in real-time while drilling using artificial intelligence tools. <i>Neural Computing and Applications</i> , 2021 , 33, 8043-8054	4.8	15
189	Effect of Perlite Particles on Barite Cement Properties. <i>ACS Omega</i> , 2021 , 6, 4793-4799	3.9	1
188	Applications of Artificial Intelligence to Predict Oil Rate for High Gas-Oil Ratio and Water-Cut Wells. <i>ACS Omega</i> , 2021 , 6, 19484-19493	3.9	0
187	Application of machine learning models for real-time prediction of the formation lithology and tops from the drilling parameters. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 203, 108574	4.4	9
186	Prevention of Hematite Settling in Water-Based Mud at High Pressure and High Temperature. <i>ACS Omega</i> , 2021 , 6, 23607-23613	3.9	3
185	Investigation of magnetite-based invert emulsion mud at high pressure high temperature. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	4
184	Application of Various Machine Learning Techniques in Predicting Total Organic Carbon from Well Logs. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 7390055	3	0
183	Insights into the application of surfactants and nanomaterials as shale inhibitors for water-based drilling fluid: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 92, 103987	4.6	16

182	Workflow to build a continuous static elastic moduli profile from the drilling data using artificial intelligence techniques. <i>Journal of Petroleum Exploration and Production</i> , 2021 , 11, 3713-3722	2.2	1
181	The Role of Drilled Formation in Filter Cake Properties Utilizing Different Weighting Materials. <i>ACS Omega</i> , 2021 , 6, 24039-24050	3.9	3
180	Evaluation of calcined Saudi calcium bentonite as cement replacement in low-density oil-well cement system. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 205, 108901	4.4	1
179	A review on clay chemistry, characterization and shale inhibitors for water-based drilling fluids. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 206, 109043	4.4	13
178	Artificial intelligence models for real-time synthetic gamma-ray log generation using surface drilling data in Middle East Oil Field. <i>Journal of Applied Geophysics</i> , 2021 , 194, 104462	1.7	1
177	Artificial neural network model for real-time prediction of the rate of penetration while horizontally drilling natural gas-bearing sandstone formations. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	9
176	Machine learning application to predict in-situ stresses from logging data. <i>Scientific Reports</i> , 2021 , 11, 23445	4.9	0
175	Newly Developed Correlations to Predict the Rheological Parameters of High-Bentonite Drilling Fluid Using Neural Networks. <i>Sensors</i> , 2020 , 20,	3.8	6
174	A Novel Low-Temperature Non-Corrosive Sulfate/Sulfide Scale Dissolver. <i>Sustainability</i> , 2020 , 12, 2455	3.6	5
173	Novel Cake Washer for Removing Oil-Based Calcium Carbonate Filter Cake in Horizontal Wells. <i>Sustainability</i> , 2020 , 12, 3427	3.6	3
172	Prevention of hematite settling using synthetic layered silicate while drilling high-pressure wells. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	11
171	Application of Machine Learning in Evaluation of the Static Young's Modulus for Sandstone Formations. <i>Sustainability</i> , 2020 , 12, 1880	3.6	13
170	Real-Time Prediction of Rheological Properties of Invert Emulsion Mud Using Adaptive Neuro-Fuzzy Inference System. <i>Sensors</i> , 2020 , 20,	3.8	21
169	Artificial neural network models for real-time prediction of the rheological properties of NaCl mud. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	1
168	Estimation of the Total Organic Carbon Using Functional Neural Networks and Support Vector Machine 2020 ,		19
167	Removal of Calcium Carbonate Water-Based Filter Cake Using a Green Biodegradable Acid. <i>Sustainability</i> , 2020 , 12, 994	3.6	9
166	Real-time determination of rheological properties of high over-balanced drilling fluid used for drilling ultra-deep gas wells using artificial neural network. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 77, 103224	4.6	10
165	Effect of exposure time on the compressive strength and formation damage of sandstone while drilling horizontal wells. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 195, 107590	4.4	9

164	Exposure Time Impact on the Geomechanical Characteristics of Sandstone Formation during Horizontal Drilling. <i>Molecules</i> , 2020 , 25,	4.8	7
163	Real-Time Prediction of Rate of Penetration in S-Shape Well Profile Using Artificial Intelligence Models. <i>Sensors</i> , 2020 , 20,	3.8	9
162	BariteMicromax mixture, an enhanced weighting agent for the elimination of barite sag in invert emulsion drilling fluids. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 2427-2435	2.2	18
161	A Novel Solution for Severe Loss Prevention While Drilling Deep Wells. <i>Sustainability</i> , 2020 , 12, 1339	3.6	3
160	Prediction of the Rate of Penetration while Drilling Horizontal Carbonate Reservoirs Using the Self-Adaptive Artificial Neural Networks Technique. <i>Sustainability</i> , 2020 , 12, 1376	3.6	21
159	Effect of Formation Cutting Mechanical Properties on Drilling Fluid Properties During Drilling Operations. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 7763-7772	2.5	7
158	Improving class G cement carbonation resistance for applications of geologic carbon sequestration using synthetic polypropylene fiber. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 76, 103184	4.6	9
157	A review of different approaches for water-based drilling fluid filter cake removal. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 192, 107346	4.4	16
156	Prevention of Barite Sag in Water-Based Drilling Fluids by A Urea-Based Additive for Drilling Deep Formations. <i>Sustainability</i> , 2020 , 12, 2719	3.6	13
155	New Hybrid Hole Cleaning Model for Vertical and Deviated Wells. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	10
154	Prediction of Lost Circulation Zones Using Artificial Neural Network and Functional Network 2020 ,		1
153	Rock Drillability Intelligent Prediction for a Complex Lithology Using Artificial Neural Network 2020 ,		7
152	ESTIMATION OF RESERVOIR POROSITY FROM DRILLING PARAMETERS USING ARTIFICIAL NEURAL NETWORKS. <i>Petrophysics</i> , 2020 , 61, 318-330	2	9
151	Prediction of Sonic Wave Transit Times From Drilling Parameters While Horizontal Drilling in Carbonate Rocks Using Neural Networks. <i>Petrophysics</i> , 2020 , 61, 482-494	2	4
150	New Computational Artificial Intelligence Models for Generating Synthetic Formation Bulk Density Logs While Drilling. <i>Sustainability</i> , 2020 , 12, 686	3.6	19
149	The Use of the Granite Waste Material as an Alternative for Silica Flour in Oil-Well Cementing. <i>ACS Omega</i> , 2020 , 5, 32341-32348	3.9	3
148	Influence of Weighting Materials on the Properties of Oil-Well Cement. <i>ACS Omega</i> , 2020 , 5, 27618-27625	3.9	4
147	Impact of Perlite on the Properties and Stability of Water-Based Mud in Elevated-Temperature Applications. <i>ACS Omega</i> , 2020 , 5, 32573-32582	3.9	5

146	Effect of the Filtrate Fluid of Water-Based Mud on Sandstone Rock Strength and Elastic Moduli. <i>ACS Omega</i> , 2020 , 5, 32677-32688	3.9	6
145	Enhancing Hematite-Based Invert Emulsion Mud Stability at High-Pressure High-Temperature Wells. <i>ACS Omega</i> , 2020 , 5, 32689-32696	3.9	9
144	New Lightweight Cement Formulation for Shallow Oil and Gas Wells. <i>ACS Omega</i> , 2020 , 5, 32094-32101	3.9	4
143	Deep Illustration for Loss of Circulation While Drilling. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 483-499	2.5	11
142	Enhancing the cement quality using polypropylene fiber. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 1097-1107	2.2	10
141	Improved durability of Saudi Class G oil-well cement sheath in CO ₂ rich environments using olive waste. <i>Construction and Building Materials</i> , 2020 , 262, 120623	6.7	8
140	Improving Saudi Class G Oil-Well Cement Properties Using the Tire Waste Material. <i>ACS Omega</i> , 2020 , 5, 27685-27691	3.9	3
139	Application of Artificial Intelligence Techniques in Predicting the Lost Circulation Zones Using Drilling Sensors. <i>Journal of Sensors</i> , 2020 , 2020, 1-18	2	4
138	Evaluating the effect of using micronised barite on the properties of water-based drilling fluids. <i>International Journal of Oil, Gas and Coal Technology</i> , 2020 , 25, 1	0.6	3
137	Coupling rate of penetration and mechanical specific energy to Improve the efficiency of drilling gas wells. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 83, 103558	4.6	9
136	Application of artificial neural network to predict the rate of penetration for S-shape well profile. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	15
135	A highlight on the application of industrial and agro wastes in cement-based materials. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 195, 107911	4.4	5
134	Comparative Analysis Between Different Artificial Based Models for Predicting Static Poisson's Ratio of Sandstone Formations 2020 ,		1
133	A New Model for Predicting Rate of Penetration Using an Artificial Neural Network. <i>Sensors</i> , 2020 , 20,	3.8	5
132	Estimation of Oil Recovery Factor for Water Drive Sandy Reservoirs through Applications of Artificial Intelligence. <i>Energies</i> , 2019 , 12, 3671	3.1	25
131	Mitigation of Condensate Banking Using Thermochemical Treatment: Experimental and Analytical Study. <i>Energies</i> , 2019 , 12, 800	3.1	6
130	Comparative analysis of artificial intelligence techniques for formation pressure prediction while drilling. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	13
129	Development of a new rate of penetration model using self-adaptive differential evolution-artificial neural network. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1	1.8	11

128	Data-Driven Framework to Predict the Rheological Properties of CaCl ₂ Brine-Based Drill-in Fluid Using Artificial Neural Network. <i>Energies</i> , 2019 , 12, 1880	3.1	11
127	Influence of Nanoclay Content on Cement Matrix for Oil Wells Subjected to Cyclic Steam Injection. <i>Materials</i> , 2019 , 12,	3.5	19
126	Mitigating CO ₂ reaction with hydrated oil well cement under geologic carbon sequestration using nanoclay particles. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 68, 102902	4.6	20
125	Cutting concentration prediction in horizontal and deviated wells using artificial intelligence techniques. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 2769-2779	2.2	14
124	Formation Damage Avoidance by Reducing Invasion with Sodium Silicate-Modified Water-Based Drilling Fluid. <i>Energies</i> , 2019 , 12, 1485	3.1	11
123	Mitigation of barite sagging during the drilling of high-pressure high-temperature wells using an invert emulsion drilling fluid. <i>Powder Technology</i> , 2019 , 352, 325-330	5.2	22
122	Effect of Arenite, Calcareous, Argillaceous, and Ferruginous Sandstone Cuttings on Filter Cake and Drilling Fluid Properties in Horizontal Wells. <i>Geofluids</i> , 2019 , 2019, 1-10	1.5	15
121	Artificial Neural Network ANN Approach to Predict Fracture Pressure 2019 ,		5
120	Gas condensate treatment: A critical review of materials, methods, field applications, and new solutions. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 177, 602-613	4.4	22
119	Prediction of Pore and Fracture Pressures Using Support Vector Machine 2019 ,		2
118	Improved Predictions in Oil Operations Using Artificial Intelligent Techniques 2019 ,		9
117	Development of a Homogenous Cement Slurry Using Synthetic Modified Phyllosilicate while Cementing HPHT Wells. <i>Sustainability</i> , 2019 , 11, 1923	3.6	11
116	Rate of Penetration Prediction in Shale Formation Using Fuzzy Logic 2019 ,		2
115	Assessing the Effect of Micronized Starch on Rheological and Filtration Properties of Water-Based Drilling Fluid 2019 ,		4
114	Impact of methane adsorption on tight rock permeability measurements using pulse-decay. <i>Petroleum</i> , 2019 , 5, 382-387	4.1	4
113	A Combined Barite-Ilmenite Weighting Material to Prevent Barite Sag in Water-Based Drilling Fluid. <i>Materials</i> , 2019 , 12,	3.5	27
112	Estimation of Static Young's Modulus for Sandstone Formation Using Artificial Neural Networks. <i>Energies</i> , 2019 , 12, 2125	3.1	32
111	Prevention of Barite Sag in Oil-Based Drilling Fluids Using a Mixture of Barite and Ilmenite as Weighting Material. <i>Sustainability</i> , 2019 , 11, 5617	3.6	20

110	Prediction of Pore and Fracture Pressures Using Support Vector Machine 2019 ,		13
109	New Robust Model to Evaluate the Total Organic Carbon Using Fuzzy Logic 2019 ,		18
108	A Hybrid Artificial Intelligence Model to Predict the Elastic Behavior of Sandstone Rocks. <i>Sustainability</i> , 2019 , 11, 5283	3.6	13
107	Assessment of Using Copper Nitrate for Scavenging Hydrogen Sulfide While Drilling Sour Horizontal Wells. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141,	2.6	2
106	APPLICATION OF ARTIFICIAL NEURAL NETWORK TO PREDICT FORMATION BULK DENSITY WHILE DRILLING. <i>Petrophysics</i> , 2019 , 60, 660-674	2	4
105	New Robust Model to Estimate Formation Tops in Real Time Using Artificial Neural Networks (ANN). <i>Petrophysics</i> , 2019 , 60, 825-837	2	12
104	One-Stage Calcium Carbonate Oil-Based Filter Cake Removal Using a New Biodegradable Acid System 2019 ,		6
103	Intelligent Prediction of Minimum Miscibility Pressure (MMP) During CO ₂ Flooding Using Artificial Intelligence Techniques. <i>Sustainability</i> , 2019 , 11, 7020	3.6	11
102	Evaluation of the Total Organic Carbon (TOC) Using Different Artificial Intelligence Techniques. <i>Sustainability</i> , 2019 , 11, 5643	3.6	22
101	One-Stage Calcium Carbonate Oil-Based Filter Cake Removal Using a New Biodegradable Acid System. <i>Sustainability</i> , 2019 , 11, 5715	3.6	4
100	Real-Time Prediction of the Rheological Properties of Water-Based Drill-In Fluid Using Artificial Neural Networks. <i>Sustainability</i> , 2019 , 11, 5008	3.6	12
99	Effect of pH on Rheological and Filtration Properties of Water-Based Drilling Fluid Based on Bentonite. <i>Sustainability</i> , 2019 , 11, 6714	3.6	31
98	A new look into the prediction of static Young's modulus and unconfined compressive strength of carbonate using artificial intelligence tools. <i>Petroleum Geoscience</i> , 2019 , 25, 389-399	1.9	4
97	Application of Artificial Intelligence Techniques to Predict the Well Productivity of Fishbone Wells. <i>Sustainability</i> , 2019 , 11, 6083	3.6	9
96	New Artificial Neural Networks Model for Predicting Rate of Penetration in Deep Shale Formation. <i>Sustainability</i> , 2019 , 11, 6527	3.6	23
95	Reaction Kinetics and Coreflooding Study of High-Temperature Carbonate Reservoir Stimulation Using GLDA in Seawater. <i>Energies</i> , 2019 , 12, 3407	3.1	13
94	The Effect of Weighting Materials on Oil-Well Cement Properties While Drilling Deep Wells. <i>Sustainability</i> , 2019 , 11, 6776	3.6	15
93	New Environmentally Friendly Acid System for Iron Sulfide Scale Removal. <i>Sustainability</i> , 2019 , 11, 6727	3.6	6

92	Real-Time Determination of Rheological Properties of Spud Drilling Fluids Using a Hybrid Artificial Intelligence Technique. <i>Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141,</i>	2.6	35
91	Thermochemical Upgrading of Calcium Bentonite for Drilling Fluid Applications. <i>Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141,</i>	2.6	12
90	A Robust Rate of Penetration Model for Carbonate Formation. <i>Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141,</i>	2.6	36
89	Enhancing the Rheological Properties of Water-Based Drilling Fluid Using Micronized Starch. <i>Arabian Journal for Science and Engineering, 2019, 44, 5433-5442</i>	2.5	15
88	New approach to evaluate the equivalent circulating density (ECD) using artificial intelligence techniques. <i>Journal of Petroleum Exploration and Production, 2019, 9, 1569-1578</i>	2.2	19
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51	Enhancing the Stability of Invert Emulsion Drilling Fluid for Drilling in High-Pressure High-Temperature Conditions. <i>Energies</i> , 2018 , 11, 2393	3.1	21
50	Predicting Rate of Penetration Using Artificial Intelligence Techniques 2018 ,		14
49	New Technology to Evaluate Equivalent Circulating Density While Drilling Using Artificial Intelligence 2018 ,		9
48	Pore Pressure Prediction While Drilling Using Fuzzy Logic 2018 ,		1
47	A New Approach to Determine the Rheology Parameters for Water-Based Drilling Fluid Using Artificial Neural Network 2018 ,		5
46	Optimizing the Gel Strength of Water-Based Drilling Fluid Using Clays for Drilling Horizontal and Multi-Lateral Wells 2018 ,		14
45	Prevention of Barite Sagging While Drilling High-Pressure High-Temperature (HPHT) Wells 2018 ,		9
44	A New Approach to Characterize CO ₂ Flooding Utilizing Artificial Intelligence Techniques 2018 ,		2
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38	A New Technique to Develop Rock Strength Correlation Using Artificial Intelligence Tools 2017 ,		29
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33	Towards a Complete Removal of Barite Weighted Water and Oil Based-Drilling Fluids in Single Stage 2017 ,		8
32	Surfactants Impact on CO ₂ Sequestration for Enhanced Gas Recovery and in Depleted Carbonate Reservoirs 2017 ,		2
31	Adsorption Role in Shale Gas Recovery and the Feasibility of CO ₂ in Shale Enhanced Gas Recovery: A Study on Shale Gas from Saudi Arabia 2017 ,		8
30	A New Approach to Predict Failure Parameters of Carbonate Rocks using Artificial Intelligence Tools 2017 ,		25
29	Real Time Prediction of the Rheological Parameters of NaCl Water-Based Drilling Fluid Using Artificial Neural Networks 2017 ,		6
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22	A New Artificial Intelligence Based Empirical Correlation to Predict Sonic Travel Time 2016 ,		15
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