

Salaheldin Mahmoud Elkatatny

List of Publications by Citations

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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 | Real time prediction of drilling fluid rheological properties using Artificial Neural Networks visible mathematical model (white box). <i>Journal of Petroleum Science and Engineering</i> , 2016 , 146, 1202-1210 | 4.4 | 95 |
| 252 | Determination of the total organic carbon (TOC) based on conventional well logs using artificial neural network. <i>International Journal of Coal Geology</i> , 2017 , 179, 72-80 | 5.5 | 90 |
| 251 | Real-Time Prediction of Rheological Parameters of KCl Water-Based Drilling Fluid Using Artificial Neural Networks. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 1655-1665 | 2.5 | 63 |
| 250 | Single stage filter cake removal of barite weighted water based drilling fluid. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 149, 476-484 | 4.4 | 57 |
| 249 | New insights into the prediction of heterogeneous carbonate reservoir permeability from well logs using artificial intelligence network. <i>Neural Computing and Applications</i> , 2018 , 30, 2673-2683 | 4.8 | 49 |
| 248 | Development of New Permeability Formulation From Well Log Data Using Artificial Intelligence Approaches. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140, | 2.6 | 46 |
| 247 | Characterization of Filter Cake Generated by Water-Based Drilling Fluids Using CT Scan. <i>SPE Drilling and Completion</i> , 2012 , 27, 282-293 | 1.4 | 46 |
| 246 | Filter Cake Properties of Water-Based Drilling Fluids Under Static and Dynamic Conditions Using Computed Tomography Scan. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2013 , 135, | 2.6 | 39 |
| 245 | Development of New Mathematical Model for Compressional and Shear Sonic Times from Wireline Log Data Using Artificial Intelligence Neural Networks (White Box). <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 6375-6389 | 2.5 | 37 |
| 244 | A Robust Rate of Penetration Model for Carbonate Formation. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141, | 2.6 | 36 |
| 243 | 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</i> , 2019 , 141, | 2.6 | 35 |
| 242 | Application of Artificial Intelligence Techniques to Estimate the Static Poisson's Ratio Based on Wireline Log Data. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140, | 2.6 | 34 |
| 241 | New Approach to Optimize the Rate of Penetration Using Artificial Neural Network. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 6297-6304 | 2.5 | 32 |
| 240 | Estimation of Static Young's Modulus for Sandstone Formation Using Artificial Neural Networks. <i>Energies</i> , 2019 , 12, 2125 | 3.1 | 32 |
| 239 | New insights into porosity determination using artificial intelligence techniques for carbonate reservoirs. <i>Petroleum</i> , 2018 , 4, 408-418 | 4.1 | 31 |
| 238 | Adaptive and Real-Time Optimal Control of Stick-Slip and Bit Wear in Autonomous Rotary Steerable Drilling. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140, | 2.6 | 31 |
| 237 | 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 |

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| 236 | An integrated approach for estimating static Young's modulus using artificial intelligence tools. <i>Neural Computing and Applications</i> , 2019 , 31, 4123-4135 | 4.8 | 31 |
| 235 | A New Technique to Develop Rock Strength Correlation Using Artificial Intelligence Tools 2017 , | | 29 |
| 234 | Clay minerals damage quantification in sandstone rocks using core flooding and NMR. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 593-603 | 2.2 | 29 |
| 233 | Effect of CO ₂ adsorption on enhanced natural gas recovery and sequestration in carbonate reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 55, 575-584 | 4.6 | 28 |
| 232 | Development of a new correlation to determine the static Young's modulus. <i>Journal of Petroleum Exploration and Production</i> , 2018 , 8, 17-30 | 2.2 | 27 |
| 231 | A Combined Barite-Ilmenite Weighting Material to Prevent Barite Sag in Water-Based Drilling Fluid. <i>Materials</i> , 2019 , 12, | 3.5 | 27 |
| 230 | Estimation of Oil Recovery Factor for Water Drive Sandy Reservoirs through Applications of Artificial Intelligence. <i>Energies</i> , 2019 , 12, 3671 | 3.1 | 25 |
| 229 | A New Approach to Predict Failure Parameters of Carbonate Rocks using Artificial Intelligence Tools 2017 , | | 25 |
| 228 | Novel Technique to Eliminate Gas Condensation in Gas Condensate Reservoirs Using Thermochemical Fluids. <i>Energy & Fuels</i> , 2018 , 32, 12843-12850 | 4.1 | 25 |
| 227 | New Artificial Neural Networks Model for Predicting Rate of Penetration in Deep Shale Formation. <i>Sustainability</i> , 2019 , 11, 6527 | 3.6 | 23 |
| 226 | 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 |
| 225 | 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 |
| 224 | Development of new correlations for the oil formation volume factor in oil reservoirs using artificial intelligent white box technique. <i>Petroleum</i> , 2018 , 4, 178-186 | 4.1 | 22 |
| 223 | Evaluation of the Total Organic Carbon (TOC) Using Different Artificial Intelligence Techniques. <i>Sustainability</i> , 2019 , 11, 5643 | 3.6 | 22 |
| 222 | Real-Time Prediction of Rheological Properties of Invert Emulsion Mud Using Adaptive Neuro-Fuzzy Inference System. <i>Sensors</i> , 2020 , 20, | 3.8 | 21 |
| 221 | 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 |
| 220 | 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 |
| 219 | 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 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 218 | 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 |
| 217 | Mixing chelating agents with seawater for acid stimulation treatments in carbonate reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 152, 9-20 | 4.4 | 19 |
| 216 | New Technique to Determine the Total Organic Carbon Based on Well Logs Using Artificial Neural Network (White Box) 2017 , | | 19 |
| 215 | Influence of Nanoclay Content on Cement Matrix for Oil Wells Subjected to Cyclic Steam Injection. <i>Materials</i> , 2019 , 12, | 3.5 | 19 |
| 214 | Estimation of the Total Organic Carbon Using Functional Neural Networks and Support Vector Machine 2020 , | | 19 |
| 213 | Development of a New Correlation for Bubble Point Pressure in Oil Reservoirs Using Artificial Intelligent Technique. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 2491-2500 | 2.5 | 19 |
| 212 | Using high- and low-salinity seawater injection to maintain the oil reservoir pressure without damage. <i>Journal of Petroleum Exploration and Production</i> , 2017 , 7, 589-596 | 2.2 | 19 |
| 211 | 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 |
| 210 | New Computational Artificial Intelligence Models for Generating Synthetic Formation Bulk Density Logs While Drilling. <i>Sustainability</i> , 2020 , 12, 686 | 3.6 | 19 |
| 209 | New approach to evaluate the equivalent circulating density (ECD) using artificial intelligence techniques. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 1569-1578 | 2.2 | 19 |
| 208 | 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 |
| 207 | New Robust Model to Evaluate the Total Organic Carbon Using Fuzzy Logic 2019 , | | 18 |
| 206 | A Holistic Approach to Develop New Rigorous Empirical Correlation for Static Young's Modulus 2016 , | | 18 |
| 205 | New Model for Pore Pressure Prediction While Drilling Using Artificial Neural Networks. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 6079-6088 | 2.5 | 17 |
| 204 | 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 |
| 203 | Real Time Prediction of the Rheological Properties of Oil-Based Drilling Fluids Using Artificial Neural Networks 2018 , | | 16 |
| 202 | Removal of water-based filter cake and stimulation of the formation in one-step using an environmentally friendly chelating agent. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014 , 7, 169 | 0.6 | 16 |
| 201 | A Self-Adaptive Artificial Neural Network Technique to Predict Total Organic Carbon (TOC) Based on Well Logs. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 6127-6137 | 2.5 | 16 |

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| 200 | A Self-Adaptive Artificial Intelligence Technique to Predict Oil Pressure Volume Temperature Properties. <i>Energies</i> , 2018 , 11, 3490 | 3.1 | 16 |
| 199 | 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 |
| 198 | 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 |
| 197 | A New Artificial Intelligence Based Empirical Correlation to Predict Sonic Travel Time 2016 , | | 15 |
| 196 | Stimulation of Seawater Injectors by GLDA (Glutamic-Di Acetic Acid). <i>SPE Drilling and Completion</i> , 2016 , 31, 178-187 | 1.4 | 15 |
| 195 | Modeling of Filter Cake Composition in Maximum Reservoir Contact and Extended Reach Horizontal Wells in Sandstone Reservoirs. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017 , 139, | 2.6 | 15 |
| 194 | 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 |
| 193 | Evaluation of Rock Mechanical Properties Alteration During Matrix Stimulation With Chelating Agents. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2016 , 138, | 2.6 | 15 |
| 192 | Prediction of Bubble Point Pressure Using Artificial Intelligence AI Techniques 2016 , | | 15 |
| 191 | The Effect of Weighting Materials on Oil-Well Cement Properties While Drilling Deep Wells. <i>Sustainability</i> , 2019 , 11, 6776 | 3.6 | 15 |
| 190 | Enhancing the Rheological Properties of Water-Based Drilling Fluid Using Micronized Starch. <i>Arabian Journal for Science and Engineering</i> , 2019 , 44, 5433-5442 | 2.5 | 15 |
| 189 | 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 |
| 188 | Application of Artificial Intelligence Techniques in Estimating Oil Recovery Factor for Water Derive Sandy Reservoirs 2017 , | | 14 |
| 187 | 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 |
| 186 | Evaluation of the Reaction Kinetics of Diethylenetriaminepentaacetic Acid Chelating Agent and a Converter with Barium Sulfate (Barite) Using a Rotating Disk Apparatus. <i>Energy & Fuels</i> , 2018 , 32, 9813-9821 | 4.1 | 14 |
| 185 | Predicting Rate of Penetration Using Artificial Intelligence Techniques 2018 , | | 14 |
| 184 | Optimizing the Gel Strength of Water-Based Drilling Fluid Using Clays for Drilling Horizontal and Multi-Lateral Wells 2018 , | | 14 |
| 183 | Comparative analysis of artificial intelligence techniques for formation pressure prediction while drilling. <i>Arabian Journal of Geosciences</i> , 2019 , 12, 1 | 1.8 | 13 |

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| 182 | Application of Machine Learning in Evaluation of the Static Young's Modulus for Sandstone Formations. <i>Sustainability</i> , 2020 , 12, 1880 | 3.6 | 13 |
| 181 | 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 |
| 180 | Prediction of Pore and Fracture Pressures Using Support Vector Machine 2019 , | | 13 |
| 179 | A Hybrid Artificial Intelligence Model to Predict the Elastic Behavior of Sandstone Rocks. <i>Sustainability</i> , 2019 , 11, 5283 | 3.6 | 13 |
| 178 | Development of lithology-based static Young's modulus correlations from log data based on data clustering technique. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 146, 10-20 | 4.4 | 13 |
| 177 | Reaction Kinetics and Coreflooding Study of High-Temperature Carbonate Reservoir Stimulation Using GLDA in Seawater. <i>Energies</i> , 2019 , 12, 3407 | 3.1 | 13 |
| 176 | Removal of Barite-Scale and Barite-Weighted Water- or Oil-Based-Drilling-Fluid Residue in a Single Stage. <i>SPE Drilling and Completion</i> , 2019 , 34, 16-26 | 1.4 | 13 |
| 175 | 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 |
| 174 | New Formulation for Iron Sulfide Scale Removal 2017 , | | 12 |
| 173 | Development of Chelating Agent-Based Polymeric Gel System for Hydraulic Fracturing. <i>Energies</i> , 2018 , 11, 1663 | 3.1 | 12 |
| 172 | New Robust Model to Estimate Formation Tops in Real Time Using Artificial Neural Networks (ANN). <i>Petrophysics</i> , 2019 , 60, 825-837 | 2 | 12 |
| 171 | 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 |
| 170 | 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 |
| 169 | Thermochemical Upgrading of Calcium Bentonite for Drilling Fluid Applications. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019 , 141, | 2.6 | 12 |
| 168 | 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 |
| 167 | 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 |
| 166 | Formation Damage Avoidance by Reducing Invasion with Sodium Silicate-Modified Water-Based Drilling Fluid. <i>Energies</i> , 2019 , 12, 1485 | 3.1 | 11 |
| 165 | Development of a Homogenous Cement Slurry Using Synthetic Modified Phyllosilicate while Cementing HPHT Wells. <i>Sustainability</i> , 2019 , 11, 1923 | 3.6 | 11 |

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| 164 | 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 |
| 163 | Impact of Surfactant on the Retention of CO ₂ and Methane in Carbonate Reservoirs. <i>Energy & Fuels</i> , 2018 , 32, 5355-5363 | 4.1 | 11 |
| 162 | Deep Illustration for Loss of Circulation While Drilling. <i>Arabian Journal for Science and Engineering</i> , 2020 , 45, 483-499 | 2.5 | 11 |
| 161 | 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 |
| 160 | Intelligent Prediction of Minimum Miscibility Pressure (MMP) During CO ₂ Flooding Using Artificial Intelligence Techniques. <i>Sustainability</i> , 2019 , 11, 7020 | 3.6 | 11 |
| 159 | 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 |
| 158 | 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 |
| 157 | Enhancing the cement quality using polypropylene fiber. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 1097-1107 | 2.2 | 10 |
| 156 | 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 |
| 155 | Improved Predictions in Oil Operations Using Artificial Intelligent Techniques 2019 , | | 9 |
| 154 | Removal of Calcium Carbonate Water-Based Filter Cake Using a Green Biodegradable Acid. <i>Sustainability</i> , 2020 , 12, 994 | 3.6 | 9 |
| 153 | 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 |
| 152 | Real-Time Prediction of Rate of Penetration in S-Shape Well Profile Using Artificial Intelligence Models. <i>Sensors</i> , 2020 , 20, | 3.8 | 9 |
| 151 | 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 |
| 150 | ESTIMATION OF RESERVOIR POROSITY FROM DRILLING PARAMETERS USING ARTIFICIAL NEURAL NETWORKS. <i>Petrophysics</i> , 2020 , 61, 318-330 | 2 | 9 |
| 149 | Enhancing Hematite-Based Invert Emulsion Mud Stability at High-Pressure High-Temperature Wells. <i>ACS Omega</i> , 2020 , 5, 32689-32696 | 3.9 | 9 |
| 148 | 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 |
| 147 | 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 |

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| 146 | Application of Artificial Intelligence Techniques to Predict the Well Productivity of Fishbone Wells. <i>Sustainability</i> , 2019 , 11, 6083 | 3.6 | 9 |
| 145 | Nanoclay Content Influence on Cement Strength for Oil Wells Subjected to Cyclic Steam Injection and High-Temperature Conditions 2018 , | | 9 |
| 144 | Real Time Determination of Rheological Properties of Spud Drilling Fluids Using a Hybrid Artificial Intelligence Technique 2018 , | | 9 |
| 143 | New Technology to Evaluate Equivalent Circulating Density While Drilling Using Artificial Intelligence 2018 , | | 9 |
| 142 | Prevention of Barite Sagging While Drilling High-Pressure High-Temperature (HPHT) Wells 2018 , | | 9 |
| 141 | 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 |
| 140 | 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 |
| 139 | Towards a Complete Removal of Barite Weighted Water and Oil Based-Drilling Fluids in Single Stage 2017 , | | 8 |
| 138 | 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 |
| 137 | A New Artificial Intelligence Based Empirical Correlation to Predict Sonic Travel Time 2016 , | | 8 |
| 136 | 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 |
| 135 | Improving Class G Cement Carbonation Resistance Using Nanoclay Particles for Geologic Carbon Sequestration Applications 2018 , | | 8 |
| 134 | Predicting Formation Tops while Drilling Using Artificial Intelligence 2018 , | | 8 |
| 133 | Fabrication of kaolin-based cement plug for CO ₂ storage wells. <i>Applied Clay Science</i> , 2017 , 141, 81-87 | 5.2 | 7 |
| 132 | Integrated petrophysical and reservoir characterization workflow to enhance permeability and water saturation prediction. <i>Journal of African Earth Sciences</i> , 2017 , 131, 105-116 | 2.2 | 7 |
| 131 | Exposure Time Impact on the Geomechanical Characteristics of Sandstone Formation during Horizontal Drilling. <i>Molecules</i> , 2020 , 25, | 4.8 | 7 |
| 130 | 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 |
| 129 | Evaluating the Chemical Reaction of Chelating Agents with Xanthan Gum. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 1427-1434 | 2.5 | 7 |

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| 128 | Rock Drillability Intelligent Prediction for a Complex Lithology Using Artificial Neural Network 2020 | | 7 |
| 127 | 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 |
| 126 | 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 |
| 125 | Development of a New Correlation for Bubble Point Pressure in Oil Reservoirs Using Artificial Intelligence Technique 2017 , | | 6 |
| 124 | Mitigation of Condensate Banking Using Thermochemical Treatment: Experimental and Analytical Study. <i>Energies</i> , 2019 , 12, 800 | 3.1 | 6 |
| 123 | Newly Developed Correlations to Predict the Rheological Parameters of High-Bentonite Drilling Fluid Using Neural Networks. <i>Sensors</i> , 2020 , 20, | 3.8 | 6 |
| 122 | Real Time Prediction of the Rheological Parameters of NaCl Water-Based Drilling Fluid Using Artificial Neural Networks 2017 , | | 6 |
| 121 | Enhanced Gas Recovery (EGR) Methods and Production Enhancement Techniques for Shale & Tight Gas Reservoirs 2017 , | | 6 |
| 120 | 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 |
| 119 | Real-Time Prediction of Equivalent Circulation Density for Horizontal Wells Using Intelligent Machines. <i>ACS Omega</i> , 2021 , 6, 934-942 | 3.9 | 6 |
| 118 | Drilling Data-Based Approach to Build a Continuous Static Elastic Moduli Profile Utilizing Artificial Intelligence Techniques. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 1-13 | 2.6 | 6 |
| 117 | Intelligent Prediction for Rock Porosity While Drilling Complex Lithology in Real Time. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9960478 | 3 | 6 |
| 116 | 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 |
| 115 | One-Stage Calcium Carbonate Oil-Based Filter Cake Removal Using a New Biodegradable Acid System 2019 , | | 6 |
| 114 | New Environmentally Friendly Acid System for Iron Sulfide Scale Removal. <i>Sustainability</i> , 2019 , 11, 6727 | 3.6 | 6 |
| 113 | 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 |
| 112 | Investigating the Compatibility of Enzyme with Chelating Agents for Calcium Carbonate Filter Cake Removal. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 2309-2318 | 2.5 | 6 |
| 111 | Artificial Neural Network ANN Approach to Predict Fracture Pressure 2019 , | | 5 |

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| 110 | A Novel Low-Temperature Non-Corrosive Sulfate/Sulfide Scale Dissolver. <i>Sustainability</i> , 2020 , 12, 2455 | 3.6 | 5 |
| 109 | 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 |
| 108 | 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 |
| 107 | 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 |
| 106 | Artificial Intelligence Models for Real-Time Bulk Density Prediction of Vertical Complex Lithology Using the Drilling Parameters. <i>Arabian Journal for Science and Engineering</i> , 1 | 2.5 | 5 |
| 105 | A New Model for Predicting Rate of Penetration Using an Artificial Neural Network. <i>Sensors</i> , 2020 , 20, | 3.8 | 5 |
| 104 | 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 |
| 103 | Impact of sand content on filter cake and invert emulsion drilling fluid properties in extended reach horizontal wells. <i>International Journal of Oil, Gas and Coal Technology</i> , 2018 , 19, 135 | 0.6 | 5 |
| 102 | A New Approach to Determine the Rheology Parameters for Water-Based Drilling Fluid Using Artificial Neural Network 2018 , | | 5 |
| 101 | Assessing the Effect of Micronized Starch on Rheological and Filtration Properties of Water-Based Drilling Fluid 2019 , | | 4 |
| 100 | Impact of methane adsorption on tight rock permeability measurements using pulse-decay. <i>Petroleum</i> , 2019 , 5, 382-387 | 4.1 | 4 |
| 99 | 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 |
| 98 | A new experimental method to prevent paraffin - wax formation on the crude oil wells: A field case study in Libya. <i>Hemijaska Industrija</i> , 2015 , 69, 269-274 | 0.6 | 4 |
| 97 | APPLICATION OF ARTIFICIAL NEURAL NETWORK TO PREDICT FORMATION BULK DENSITY WHILE DRILLING. <i>Petrophysics</i> , 2019 , 60, 660-674 | 2 | 4 |
| 96 | 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 |
| 95 | Influence of Weighting Materials on the Properties of Oil-Well Cement. <i>ACS Omega</i> , 2020 , 5, 27618-27625 | 3.9 | 4 |
| 94 | New Lightweight Cement Formulation for Shallow Oil and Gas Wells. <i>ACS Omega</i> , 2020 , 5, 32094-32101 | 3.9 | 4 |
| 93 | 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 |

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