

Wood,david A

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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.

223
papers

7,418
citations

36
h-index

82
g-index

266
ext. papers

8,870
ext. citations

4.3
avg, IF

7.03
L-index

#	Paper	IF	Citations
223	The application of a ThHfTa diagram to problems of tectonomagmatic classification and to establishing the nature of crustal contamination of basaltic lavas of the British Tertiary Volcanic Province. <i>Earth and Planetary Science Letters</i> , 1980 , 50, 11-30	5.3	1498
222	A re-appraisal of the use of trace elements to classify and discriminate between magma series erupted in different tectonic settings. <i>Earth and Planetary Science Letters</i> , 1979 , 45, 326-336	5.3	604
221	Elemental and Sr isotope variations in basic lavas from Iceland and the surrounding ocean floor. <i>Contributions To Mineralogy and Petrology</i> , 1979 , 70, 319-339	3.5	394
220	A variably veined suboceanic upper mantle. Genetic significance for mid-ocean ridge basalts from geochemical evidence. <i>Geology</i> , 1979 , 7, 499	5	304
219	Gas-to-liquids (GTL): A review of an industry offering several routes for monetizing natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2012 , 9, 196-208	4.6	281
218	Geochemistry of basalts drilled in the North Atlantic by IPOD Leg 49: Implications for mantle heterogeneity. <i>Earth and Planetary Science Letters</i> , 1979 , 42, 77-97	5.3	231
217	Elemental mobility during zeolite facies metamorphism of the Tertiary basalts of eastern Iceland. <i>Contributions To Mineralogy and Petrology</i> , 1976 , 55, 241-254	3.5	205
216	The state of natural gas. <i>Journal of Natural Gas Science and Engineering</i> , 2009 , 1, 1-13	4.6	171
215	Recent advances in carbon dioxide utilization. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 125, 109799	16.2	146
214	Electrical conductivity models in saturated porous media: A review. <i>Earth-Science Reviews</i> , 2017 , 171, 419-433	10.2	146
213	Major and Trace Element Variations in the Tertiary Lavas of Eastern Iceland and their Significance with respect to the Iceland Geochemical Anomaly. <i>Journal of Petrology</i> , 1978 , 19, 393-436	3.9	146
212	A realistic and integrated model for evaluating oil sands development with Steam Assisted Gravity Drainage technology in Canada. <i>Applied Energy</i> , 2018 , 213, 76-91	10.7	144
211	Role of subducted sediment in the genesis of ocean-island basalts: Geochemical evidence from South Atlantic Ocean islands. <i>Geology</i> , 1986 , 14, 275	5	125
210	Effectiveness of amino acid salt solutions in capturing CO ₂ : A review. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 98, 179-188	16.2	118
209	A review of the current status of induced seismicity monitoring for hydraulic fracturing in unconventional tight oil and gas reservoirs. <i>Fuel</i> , 2019 , 242, 195-210	7.1	80
208	Prediction of solubility of N-alkanes in supercritical CO ₂ using RBF-ANN and MLP-ANN. <i>Journal of CO₂ Utilization</i> , 2018 , 25, 108-119	7.6	78
207	Dynamic partial melting: its application to the petrogeneses of basalts erupted in Iceland, the Faeroe Islands, the Isle of Skye (Scotland) and the Troodos Massif (Cyprus). <i>Geochimica Et Cosmochimica Acta</i> , 1979 , 43, 1031-1046	5.5	78

206	Retrospective and future perspective of natural gas liquefaction and optimization technologies contributing to efficient LNG supply: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 165-188	4.6	71
205	Porosity controls and fractal disposition of organic-rich Permian shales using low-pressure adsorption techniques. <i>Fuel</i> , 2018 , 220, 837-848	7.1	71
204	Geochemistry of ocean island basalts from the South Atlantic: Ascension, Bouvet, St. Helena, Gough and Tristan da Cunha. <i>Geological Society Special Publication</i> , 1987 , 30, 253-267	1.7	67
203	A comprehensive review of formation damage during enhanced oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 167, 287-299	4.4	65
202	Stimulation and hydraulic fracturing technology in natural gas reservoirs: Theory and case studies (2012-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1414-1421	4.6	62
201	A review of Australia's natural gas resources and their exploitation. <i>Journal of Natural Gas Science and Engineering</i> , 2013 , 10, 68-88	4.6	62
200	Trace element variations in Atlantic Ocean basalts and Proterozoic dykes from northwest Scotland: Their bearing upon the nature and geochemical evolution of the upper mantle. <i>Tectonophysics</i> , 1981 , 75, 91-112	3.1	61
199	Supplier selection for development of petroleum industry facilities, applying multi-criteria decision making techniques including fuzzy and intuitionistic fuzzy TOPSIS with flexible entropy weighting. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 28, 594-612	4.6	60
198	A review and outlook for the global LNG trade. <i>Journal of Natural Gas Science and Engineering</i> , 2012 , 9, 16-27	4.6	59
197	Coalbed methane (CBM) exploration, reservoir characterisation, production, and modelling: A collection of published research (2009-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1472-1484	4.6	56
196	Improved predictions of wellhead choke liquid critical-flow rates: Modelling based on hybrid neural network training learning based optimization. <i>Fuel</i> , 2017 , 207, 547-560	7.1	55
195	Designing and optimizing deviated wellbore trajectories using novel particle swarm algorithms. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 21, 1184-1204	4.6	54
194	Fundamental investigation of an environmentally-friendly surfactant agent for chemical enhanced oil recovery. <i>Fuel</i> , 2019 , 238, 186-197	7.1	53
193	CFD investigation of CO ₂ capture by methyldiethanolamine and 2-(1-piperazinyl)-ethylamine in membranes: Part B. Effect of membrane properties. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 19, 311-316	4.6	51
192	The critical factors for permeability-formation factor relation in reservoir rocks: Pore-throat ratio, tortuosity and connectivity. <i>Energy</i> , 2019 , 188, 116051	7.9	46
191	ANN-Based Prediction of Laboratory-Scale Performance of CO ₂ -Foam Flooding for Improving Oil Recovery. <i>Natural Resources Research</i> , 2019 , 28, 1619-1637	4.9	44
190	A hybrid nanocomposite of poly(styrene-methyl methacrylate- acrylic acid) /clay as a novel rheology-improvement additive for drilling fluids. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	44
189	Pore Characteristics of Distinct Thermally Mature Shales: Influence of Particle Size on Low-Pressure CO ₂ and N ₂ Adsorption. <i>Energy & Fuels</i> , 2018 , 32, 8175-8186	4.1	43

188	A transparent Open-Box learning network provides insight to complex systems and a performance benchmark for more-opaque machine learning algorithms. <i>Advances in Geo-Energy Research</i> , 2018 , 2, 148-162	6.2	41
187	Prediction of gas flow rates from gas condensate reservoirs through wellhead chokes using a firefly optimization algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 256-271	4.6	36
186	Geomechanical modeling using the depth-of-damage approach to achieve successful underbalanced drilling in the Gulf of Suez rift basin. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 202, 108311	4.4	36
185	A machine learning approach to predict drilling rate using petrophysical and mud logging data. <i>Earth Science Informatics</i> , 2019 , 12, 319-339	2.5	33
184	Rheological and filtration characteristics of drilling fluids enhanced by nanoparticles with selected additives: an experimental study. <i>Advances in Geo-Energy Research</i> , 2018 , 2, 228-236	6.2	33
183	Predicting liquid flow-rate performance through wellhead chokes with genetic and solver optimizers: an oil field case study. <i>Journal of Petroleum Exploration and Production</i> , 2019 , 9, 1355-1373	2.2	33
182	A study of the precision attained by neutron activation analysis using international standard rocks GS-N and BCR-I as examples. A discussion of a geochemical model accounting for the estimated errors. <i>Journal of Radioanalytical Chemistry</i> , 1980 , 55, 417-425		31
181	Predicting porosity, permeability and water saturation applying an optimized nearest-neighbour, machine-learning and data-mining network of well-log data. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 184, 106587	4.4	28
180	Characterization of organic-rich shales for petroleum exploration & exploitation: A review-Part 2: Geochemistry, thermal maturity, isotopes and biomarkers. <i>Journal of Earth Science (Wuhan, China)</i> , 2017 , 28, 758-778	2.2	27
179	Characterization of organic-rich shales for petroleum exploration & exploitation: A review-Part 1: Bulk properties, multi-scale geometry and gas adsorption. <i>Journal of Earth Science (Wuhan, China)</i> , 2017 , 28, 739-757	2.2	26
178	A review of the utilization and monetization of Nigeria's natural gas resources: Current realities. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 18, 412-432	4.6	26
177	3-D well path design using a multi objective genetic algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 219-235	4.6	26
176	Gas and oil project time-cost-quality tradeoff: Integrated stochastic and fuzzy multi-objective optimization applying a memetic, nondominated, sorting algorithm. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 143-164	4.6	24
175	Regeneration of the Midrex Reformer Catalysts Using Supercritical Carbon Dioxide. <i>Chemical Engineering Journal</i> , 2018 , 343, 748-758	14.7	24
174	Performance comparison of bubble point pressure from oil PVT data: Several neurocomputing techniques compared. <i>Experimental and Computational Multiphase Flow</i> , 2020 , 2, 225-246	4.2	24
173	Investigation of CO ₂ absorption in methyldiethanolamine and 2-(1-piperaziny)-ethylamine using hollow fiber membrane contactors: Part C. Effect of operating variables. <i>Journal of Natural Gas Science and Engineering</i> , 2014 , 20, 58-66	4.6	23
172	Production analysis and performance forecasting for natural gas reservoirs: Theory and practice (2011-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1433-1438	4.6	22
171	A holistic review of geosystem damage during unconventional oil, gas and geothermal energy recovery. <i>Fuel</i> , 2018 , 227, 99-110	7.1	22

170	Metaheuristic profiling to assess performance of hybrid evolutionary optimization algorithms applied to complex wellbore trajectories. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 751-768	4.6	22
169	Weight on drill bit prediction models: Sugeno-type and Mamdani-type fuzzy inference systems compared. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 36, 280-297	4.6	20
168	Auto-characterization of naturally fractured reservoirs drilled by horizontal well using multi-output least squares support vector regression. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1	1.8	19
167	Applying ultrasonic fields to separate water contained in medium-gravity crude oil emulsions and determining crude oil adhesion coefficients. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105303	8.9	19
166	A geomechanical approach to casing collapse prediction in oil and gas wells aided by machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 196, 107811	4.4	19
165	Fractal disposition, porosity characterization and relationships to thermal maturity for the Lower Permian Raniganj basin shales, India. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 59, 452-465	4.6	19
164	Transparent open-box learning network provides auditable predictions for coal gross calorific value. <i>Modeling Earth Systems and Environment</i> , 2019 , 5, 395-419	3.2	18
163	Influence of the Membrane Module Geometry on SO ₂ Removal: A Numerical Study. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11619-11627	3.9	18
162	The role of supercritical carbon dioxide for recovery of shale gas and sequestration in gas shale reservoirs. <i>Energy and Environmental Science</i> ,	35.4	18
161	Determination of bubble point pressure & oil formation volume factor of crude oils applying multiple hidden layers extreme learning machine algorithms. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 202, 108425	4.4	18
160	Evaluation of Shale Source Rocks and Reservoirs. <i>Petroleum Engineering</i> , 2019 ,	1.3	17
159	New insights to direct conversion of wet microalgae impregnated with ethanol to biodiesel exploiting extraction with supercritical carbon dioxide. <i>Fuel</i> , 2021 , 285, 119199	7.1	17
158	Hybrid machine learning algorithms to enhance lost-circulation prediction and management in the Marun oil field. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 198, 108125	4.4	16
157	Simulated exergy and energy performance comparison of physical-chemical and chemical solvents in a sour gas treatment plant. <i>Chemical Engineering Research and Design</i> , 2018 , 133, 40-54	5.5	15
156	A comparative study of several metaheuristic algorithms for optimizing complex 3-D well-path designs. <i>Journal of Petroleum Exploration and Production</i> , 2018 , 8, 1487-1503	2.2	15
155	Hybrid cuckoo search optimization algorithms applied to complex wellbore trajectories aided by dynamic, chaos-enhanced, fat-tailed distribution sampling and metaheuristic profiling. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 236-252	4.6	15
154	Characterization of organic-rich shales for petroleum exploration & exploitation: A review-Part 3: Applied geomechanics, petrophysics and reservoir modeling. <i>Journal of Earth Science (Wuhan, China)</i> , 2017 , 28, 779-803	2.2	15
153	Techniques used to calculate shale fractal dimensions involve uncertainties and imprecisions that require more careful consideration. <i>Advances in Geo-Energy Research</i> , 2021 , 5, 153-165	6.2	15

152	Prediction of oil flow rate through an orifice flow meter: Artificial intelligence alternatives compared. <i>Petroleum</i> , 2020 , 6, 404-414	4.1	15
151	Thermal maturity and burial history modelling of shale is enhanced by use of Arrhenius time-temperature index and memetic optimizer. <i>Petroleum</i> , 2018 , 4, 25-42	4.1	15
150	Partial melting models for the petrogenesis of Reykjanes Peninsula basalts, Iceland Implications for the use of trace elements and strontium and neodymium isotope ratios to record inhomogeneities in the upper mantle. <i>Earth and Planetary Science Letters</i> , 1981 , 52, 183-190	5.3	14
149	Lithofacies and stratigraphy prediction methodology exploiting an optimized nearest-neighbour algorithm to mine well-log data. <i>Marine and Petroleum Geology</i> , 2019 , 110, 347-367	4.7	13
148	Hybrid bat flight optimization algorithm applied to complex wellbore trajectories highlights the relative contributions of metaheuristic components. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 32, 211-221	4.6	13
147	Transparent open-box learning network and artificial neural network predictions of bubble-point pressure compared. <i>Petroleum</i> , 2020 , 6, 375-384	4.1	13
146	Insights into the effects of matrix retention and inert carbon on the petroleum generation potential of Indian Gondwana shales. <i>Marine and Petroleum Geology</i> , 2018 , 91, 125-138	4.7	12
145	LNG rollover challenges and their mitigation on Floating Storage and Regasification Units: New perspectives in assessing rollover consequences. <i>Journal of Loss Prevention in the Process Industries</i> , 2018 , 54, 352-372	3.5	12
144	Simulation of CO ₂ removal from ethane with Sulfinol-M+AMP solvent instead of DEA solvent in the South Pars phases 9 and 10 gas processing facility. <i>Petroleum</i> , 2019 , 5, 90-101	4.1	12
143	Assessing Wellbore Stability With a Modified Lade Failure Criterion. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020 , 142,	2.6	12
142	Auto-detection interpretation model for horizontal oil wells using pressure transient responses. <i>Advances in Geo-Energy Research</i> , 2020 , 4, 305-316	6.2	12
141	Reinforcement of oil and gas wellbore cements with a methyl methacrylate/carbon-nanotube polymer nanocomposite additive. <i>Cement and Concrete Composites</i> , 2020 , 114, 103763	8.6	12
140	Drilling and borehole techniques relevant to natural gas exploration and development: A collection of published research (2009-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 396-408	4.6	11
139	Source rock properties and pore structural framework of the gas-prone Lower Permian shales in the Jharia basin, India. <i>Arabian Journal of Geosciences</i> , 2020 , 13, 1	1.8	11
138	Experimental investigation on the effect of diameter ratio on two-phase slug flow separation in a T-Junction. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 170, 139-150	4.4	11
137	2.29 Desulfurization Materials 2018 , 944-979		11
136	Third Generation of Biofuels Exploiting Microalgae. <i>Nanotechnology in the Life Sciences</i> , 2020 , 575-588	1.1	11
135	Shear modulus prediction of embedded pressurized salt layers and pinpointing zones at risk of casing collapse in oil and gas wells. <i>Journal of Applied Geophysics</i> , 2020 , 183, 104205	1.7	11

134	Adaptive neuro-fuzzy algorithm applied to predict and control multi-phase flow rates through wellhead chokes. <i>Flow Measurement and Instrumentation</i> , 2020 , 76, 101849	2.2	11
133	The impacts of gas impurities on the minimum miscibility pressure of injected CO ₂ -rich gas-rude oil systems and enhanced oil recovery potential. <i>Petroleum Science</i> , 2019 , 16, 117-126	4.4	11
132	Experimental and Fractal Characterization of the Microstructure of Shales from Sichuan Basin, China. <i>Energy & Fuels</i> , 2021 , 35, 3899-3914	4.1	11
131	High-level integrated deterministic, stochastic and fuzzy cost-duration analysis aids project planning and monitoring, focusing on uncertainties and earned value metrics. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 37, 303-326	4.6	10
130	Sensitivity analysis and optimization capabilities of the transparent open-box learning network in predicting coal gross calorific value from underlying compositional variables. <i>Modeling Earth Systems and Environment</i> , 2019 , 5, 753-766	3.2	10
129	Predictions of Gross Calorific Value of Indian Coals from their Moisture and Ash Content. <i>Journal of the Geological Society of India</i> , 2019 , 93, 437-442	1.3	10
128	Evolutionary memetic algorithms supported by metaheuristic profiling effectively applied to the optimization of discrete routing problems. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 35, 997-1014	4.6	10
127	Overview of Formation Damage During Improved and Enhanced Oil Recovery 2018 , 1-20		10
126	Virtual special issue: Stimulation and hydraulic fracturing technology in natural gas reservoirs: Theory and case studies (2012-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1508-1509	4.6	10
125	Mathematical model for iron corrosion that eliminates chemical potential parameters. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 603-612	3.2	10
124	Iran in the emerging global natural gas market: A scenario-based competitive analysis and policy assessment. <i>Resources Policy</i> , 2020 , 68, 101790	7.2	10
123	Prediction of oil flow rate through orifice flow meters: Optimized machine-learning techniques. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 174, 108943	4.6	10
122	Net ecosystem carbon exchange prediction and insightful data mining with an optimized data-matching algorithm. <i>Ecological Indicators</i> , 2021 , 124, 107426	5.8	10
121	Transparent open-box learning network provides auditable predictions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 136, 1395-1414	4.1	10
120	The impacts of silica nanoparticles coupled with low-salinity water on wettability and interfacial tension: Experiments on a carbonate core. <i>Journal of Dispersion Science and Technology</i> , 2020 , 41, 1159-1173	1.5	10
119	A review: Optimizing performance of Floating Storage and Regasification Units (FSRU) by applying advanced LNG tank pressure management strategies. <i>International Journal of Energy Research</i> , 2018 , 42, 1391-1418	4.5	9
118	Re-establishing the merits of thermal maturity and petroleum generation multi-dimensional modeling with an Arrhenius Equation using a single activation energy. <i>Journal of Earth Science (Wuhan, China)</i> , 2017 , 28, 804-834	2.2	9
117	Microbial improved and enhanced oil recovery (MIEOR): Review of a set of technologies diversifying their applications. <i>Advances in Geo-Energy Research</i> , 2019 , 3, 122-140	6.2	9

116	A Layered Uncertainties Scenario Synthesizing (LUSS) model applied to evaluate multiple potential long-run outcomes for Iran's natural gas exports. <i>Energy</i> , 2019 , 169, 646-659	7.9	9
115	German solar power generation data mining and prediction with transparent open box learning network integrating weather, environmental and market variables. <i>Energy Conversion and Management</i> , 2019 , 196, 354-369	10.6	8
114	Letter to the Editor: Why Consider Exploiting Stranded Gas?. <i>Petroleum Science and Technology</i> , 2007 , 25, 411-413	1.4	8
113	Prediction performance advantages of deep machine learning algorithms for two-phase flow rates through wellhead chokes. <i>Journal of Petroleum Exploration and Production</i> , 2021 , 11, 1233-1261	2.2	8
112	Reliable predictions of oil formation volume factor based on transparent and auditable machine learning approaches. <i>Advances in Geo-Energy Research</i> , 2019 , 3, 225-241	6.2	8
111	Predicting Formation Pore-Pressure from Well-Log Data with Hybrid Machine-Learning Optimization Algorithms. <i>Natural Resources Research</i> , 2021 , 30, 3455-3481	4.9	8
110	Reservoir Formation Damage; Reasons and Mitigation: A Case Study of the Cambrian-Ordovician Nubian Sandstone Gas and Oil Reservoir from the Gulf of Suez Rift Basin. <i>Arabian Journal for Science and Engineering</i> , 1	2.5	8
109	Carbon Dioxide Applications for Enhanced Oil Recovery Assisted by Nanoparticles: Recent Developments.. <i>ACS Omega</i> , 2022 , 7, 9984-9994	3.9	8
108	Integration of core data, well logs and seismic attributes for identification of the low reservoir quality units with unswept gas in the carbonate rocks of the world's largest gas field. <i>Journal of Earth Science (Wuhan, China)</i> , 2017 , 28, 857-866	2.2	7
107	Hourly-averaged solar plus wind power generation for Germany 2016: Long-term prediction, short-term forecasting, data mining and outlier analysis. <i>Sustainable Cities and Society</i> , 2020 , 60, 102227	10.1	7
106	The Relationship between Depth of Burial and Mean Intensity of Magnetization for Basalts from Eastern Iceland. <i>Geophysical Journal International</i> , 1976 , 46, 497-498	2.6	7
105	Characterization and estimation of gas-bearing properties of Devonian coals using well log data from the Illizi Basin wells (Algeria). <i>Advances in Geo-Energy Research</i> , 2020 , 4, 356-371	6.2	7
104	Exponential utility functions aid upstream decision making. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 27, 1482-1494	4.6	6
103	Applying separately cost-sensitive learning and Fisher's discriminant analysis to address the class imbalance problem: A case study involving a virtual gas pipeline SCADA system. <i>International Journal of Critical Infrastructure Protection</i> , 2020 , 29, 100357	4.1	6
102	Combined cycle gas turbine power output prediction and data mining with optimized data matching algorithm. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	6
101	Applying orthogonal collocation for rapid and reliable solutions of transient flow in naturally fractured reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 162, 166-179	4.4	6
100	Kerogen conversion and thermal maturity modelling of petroleum generation: Integrated analysis applying relevant kerogen kinetics. <i>Marine and Petroleum Geology</i> , 2018 , 89, 313-329	4.7	6
99	Risk Simulation Techniques to Aid Project Cost-Time Planning and Management. <i>Risk Management</i> , 2002 , 4, 41-60	2.5	6

98	Review of Progress in Microalgal Biotechnology Applied to Wastewater Treatment. <i>Nanotechnology in the Life Sciences</i> , 2020 , 539-557	1.1	6
97	Brittleness index predictions from Lower Barnett Shale well-log data applying an optimized data matching algorithm at various sampling densities. <i>Geoscience Frontiers</i> , 2020 , 101087	6	6
96	UTASTAR method and its application in multi-criteria warehouse location selection. <i>Operations Management Research</i> , 2021 , 14, 202-215	3.6	6
95	Selection of high-rate gas well completion designs applying multi-criteria decision making and hierarchy methods. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 1004-1016	4.6	5
94	Low-Salinity Water Flooding 2018 , 21-67		5
93	Virtual special issue: Coalbed methane (CBM) exploration, reservoir characterisation, production, and modelling: A collection of published research (2009-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 1491-1494	4.6	5
92	The natural gas sector needs to be mindful of its sustainability credentials. <i>Advances in Geo-Energy Research</i> , 2020 , 4, 229-232	6.2	5
91	Hydrocarbon generation and kinetics: A case study of Permian shales, India. <i>Journal of Asian Earth Sciences</i> , 2021 , 222, 104960	2.8	5
90	Estimating Organic-Rich Shale Fractal Dimensions from Gas Adsorption Isotherms: Combining Different Methods Leads to More Reliable Values and Insight. <i>Natural Resources Research</i> , 2021 , 30, 3551-3574	4.9	5
89	Asset portfolio multi-objective optimization tools provide insight to value, risk and strategy for gas and oil decision makers. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 196-216	4.6	5
88	Transparent machine learning provides insightful estimates of natural gas density based on pressure, temperature and compositional variables. <i>Journal of Natural Gas Geoscience</i> , 2020 , 5, 33-43	1.5	5
87	Weathering/Ageing of Liquefied Natural Gas Cargoes During Marine Transport and Processing on Floating Storage Units and FSRU. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018 , 140,	2.6	5
86	Organic and Inorganic Porosity, and Controls of Hydrocarbon Storage in Shales. <i>Petroleum Engineering</i> , 2019 , 107-138	1.3	4
85	Virtual special issue: Conversion of natural gas and gas liquids to methanol, other oxygenates, gasoline components, olefins and other petrochemicals: A collection of published research (2010-2015). <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 26, 780-781	4.6	4
84	Country-wide German hourly wind power dataset mined to provide insight to predictions and forecasts with optimized data-matching machine learning. <i>Renewable Energy Focus</i> , 2020 , 34, 69-90	5.4	4
83	Optimizing the separation factor along a directional well trajectory to minimize collision risk. <i>Journal of Petroleum Exploration and Production</i> , 2020 , 10, 2113-2125	2.2	4
82	Predicting Stability of a Decentralized Power Grid Linking Electricity Price Formulation to Grid Frequency Applying an Optimized Data-Matching Learning Network to Simulated Data. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2020 , 5, 1	2.1	4
81	Gas adsorption and reserve estimation for conventional and unconventional gas resources 2022 , 345-382		4

80	Reservoir microfacies analysis exploiting microscopic image processing and classification algorithms applied to carbonate and sandstone reservoirs. <i>Marine and Petroleum Geology</i> , 2020 , 121, 104609	4.7	4
79	Total Organic Carbon Predictions from Lower Barnett Shale Well-log Data Applying an Optimized Data Matching Algorithm at Various Sampling Densities. <i>Pure and Applied Geophysics</i> , 2020 , 177, 5451-5468	2.2	4
78	German country-wide renewable power generation from solar plus wind mined with an optimized data matching algorithm utilizing diverse variables. <i>Energy Systems</i> , 2020 , 11, 1003-1045	1.7	4
77	Prediction and data mining of burned areas of forest fires: Optimized data matching and mining algorithm provides valuable insight. <i>Artificial Intelligence in Agriculture</i> , 2021 , 5, 24-42	7.8	4
76	Hybrid machine learning algorithms to predict condensate viscosity in the near wellbore regions of gas condensate reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2021 , 95, 104210	4.6	4
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