

Zhenhua Rui

List of Publications by Year in descending order

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61
papers

3,431
citations

117571

34
h-index

138417

58
g-index

61
all docs

61
docs citations

61
times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation method of rock brittleness based on statistical constitutive relations for rock damage. Journal of Petroleum Science and Engineering, 2017, 153, 123-132.	2.1	179
2	A realistic and integrated model for evaluating oil sands development with Steam Assisted Gravity Drainage technology in Canada. Applied Energy, 2018, 213, 76-91.	5.1	169
3	A new analytical multi-linear solution for gas flow toward fractured horizontal wells with different fracture intensity. Journal of Natural Gas Science and Engineering, 2015, 23, 227-238.	2.1	152
4	Pore characterization of isolated organic matter from high matured gas shale reservoir. International Journal of Coal Geology, 2017, 174, 31-40.	1.9	133
5	Influence of gravel on the propagation pattern of hydraulic fracture in the glutenite reservoir. Journal of Petroleum Science and Engineering, 2018, 165, 627-639.	2.1	133
6	Evaluation of Acid Fracturing Treatments in Shale Formation. Energy & Fuels, 2017, 31, 10479-10489.	2.5	127
7	A quantitative oil and gas reservoir evaluation system for development. Journal of Natural Gas Science and Engineering, 2017, 42, 31-39.	2.1	123
8	The influence of complicated fluid-rock interactions on the geothermal exploitation in the CO ₂ plume geothermal system. Applied Energy, 2018, 227, 49-63.	5.1	119
9	An integrated technical-economic model for evaluating CO ₂ enhanced oil recovery development. Applied Energy, 2019, 247, 190-211.	5.1	118
10	Review of multi-scale and multi-physical simulation technologies for shale and tight gas reservoirs. Journal of Natural Gas Science and Engineering, 2017, 37, 560-578.	2.1	117
11	Investigation into the performance of oil and gas projects. Journal of Natural Gas Science and Engineering, 2017, 38, 12-20.	2.1	113
12	A quantitative framework for evaluating unconventional well development. Journal of Petroleum Science and Engineering, 2018, 166, 900-905.	2.1	105
13	Development of industry performance metrics for offshore oil and gas project. Journal of Natural Gas Science and Engineering, 2017, 39, 44-53.	2.1	103
14	Assessing the combined influence of fluid-rock interactions on reservoir properties and injectivity during CO ₂ storage in saline aquifers. Energy, 2018, 155, 281-296.	4.5	100
15	Physical Simulation of Hydraulic Fracturing of Large-Sized Tight Sandstone Outcrops. SPE Journal, 2021, 26, 372-393.	1.7	99
16	A new model to evaluate two leak points in a gas pipeline. Journal of Natural Gas Science and Engineering, 2017, 46, 491-497.	2.1	92
17	Feasibility study of CO ₂ huff 'n' puff process to enhance heavy oil recovery via long core experiments. Applied Energy, 2019, 236, 526-539.	5.1	80
18	A comprehensive investigation on performance of oil and gas development in Nigeria: Technical and non-technical analyses. Energy, 2018, 158, 666-680.	4.5	78

#	ARTICLE	IF	CITATIONS
19	A Storage-Driven CO ₂ EOR for a Net-Zero Emission Target. <i>Engineering</i> , 2022, 18, 79-87.	3.2	73
20	Improving Oil Recovery Through Fracture Injection and Production of Multiple Fractured Horizontal Wells. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	71
21	Whole process analysis of geothermal exploitation and power generation from a depleted high-temperature gas reservoir by recycling CO ₂ . <i>Energy</i> , 2021, 217, 119340.	4.5	67
22	A new method to determine Biot's coefficients of Bakken samples. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 259-264.	2.1	60
23	Review on Pore Structure Characterization and Microscopic Flow Mechanism of CO ₂ Flooding in Porous Media. <i>Energy Technology</i> , 2021, 9, .	1.8	60
24	An integrated workflow for characterization and simulation of complex fracture networks utilizing microseismic and horizontal core data. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 1347-1360.	2.1	57
25	Using propanol as an additive to CO ₂ for improving CO ₂ utilization and storage in oil reservoirs. <i>Applied Energy</i> , 2022, 311, 118640.	5.1	57
26	Foaming Properties and Foam Structure of Produced Liquid in Alkali/Surfactant/Polymer Flooding Production. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	1.4	54
27	An Improved Rate-Transient Analysis Model of Multi-Fractured Horizontal Wells with Non-Uniform Hydraulic Fracture Properties. <i>Energies</i> , 2018, 11, 393.	1.6	53
28	Fractured horizontal well productivity prediction in tight oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2017, 151, 159-168.	2.1	52
29	Case studies on the CO ₂ storage and EOR in heterogeneous, highly water-saturated, and extra-low permeability Chinese reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 29, 275-283.	2.1	51
30	Historical pipeline construction cost analysis. <i>International Journal of Oil, Gas and Coal Technology</i> , 2011, 4, 244.	0.1	42
31	The qualitative and quantitative fracture evaluation methodology in shale gas reservoir. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 486-495.	2.1	42
32	A simulation method for modified isochronal well testing to determine shale gas well productivity. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 479-485.	2.1	38
33	Study on the mechanism of rupture and propagation of T-type fractures in coal fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 52, 379-389.	2.1	38
34	Combustion and emission characteristics of biomass derived biofuel, premixed in a diesel engine: A CFD study. <i>Renewable Energy</i> , 2019, 138, 79-89.	4.3	36
35	Experimental study of directional propagation of hydraulic fracture guided by multi-radial slim holes. <i>Journal of Petroleum Science and Engineering</i> , 2018, 166, 592-601.	2.1	35
36	Feasibility study of improved unconventional reservoir performance with carbonated water and surfactant. <i>Energy</i> , 2019, 182, 135-147.	4.5	35

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37	Lithofacies distribution and gas-controlling characteristics of the Wufengâ€™Longmaxi black shales in the southeastern region of the Sichuan Basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 269-283.	2.1	33
38	The CO2 storage capacity evaluation: Methodology and determination of key factors. <i>Journal of the Energy Institute</i> , 2014, 87, 297-305.	2.7	32
39	Molecular Dynamics-Based Simulation on Chemical Flooding Produced Emulsion Formation and Stabilization: A Critical Review. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 7161-7173.	1.7	31
40	Demonstration of a feasible energy-water-environment nexus: Waste sulfur dioxide for water treatment. <i>Applied Energy</i> , 2019, 250, 1011-1022.	5.1	26
41	The Role of Shearing Energy and Interfacial Gibbs Free Energy in the Emulsification Mechanism of Waxy Crude Oil. <i>Energies</i> , 2017, 10, 721.	1.6	24
42	An analysis of inaccuracy in pipeline construction cost estimation. <i>International Journal of Oil, Gas and Coal Technology</i> , 2012, 5, 29.	0.1	21
43	Pipeline compressor station construction cost analysis. <i>International Journal of Oil, Gas and Coal Technology</i> , 2014, 8, 41.	0.1	18
44	Performance Evaluation of Degradable Temporary Plugging Agent in Laboratory Experiment. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	18
45	Unified relative permeability model and waterflooding type curves under different levels of water cut. <i>Journal of Petroleum Science and Engineering</i> , 2017, 154, 204-216.	2.1	17
46	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> , 2022, 3, 1359-1400.	2.6	17
47	Transient responses of multifractured systems with discrete secondary fractures in unconventional reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 41, 49-62.	2.1	16
48	Evaluation of Coated Proppant Unconventional Performance. <i>Energy & Fuels</i> , 2021, 35, 9268-9277.	2.5	16
49	The injectivity variation prediction model for water flooding oilfields sustainable development. <i>Energy</i> , 2019, 189, 116317.	4.5	15
50	A comprehensive analysis of natural gas distribution pipeline incidents. <i>International Journal of Oil, Gas and Coal Technology</i> , 2013, 6, 528.	0.1	14
51	Comprehensive risk assessment of high sulfur-containing gas well. <i>Journal of Petroleum Science and Engineering</i> , 2018, 170, 888-897.	2.1	13
52	A Novel Method for Characterizing the Aggregation of Wax Crystals and An Improvement in Wax Deposition Modeling. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2020, 142, .	1.4	11
53	Complex Lithofacies Identification Using Improved Probabilistic Neural Networks. <i>Petrophysics</i> , 2018, 59, 245-267.	0.2	11
54	CO2 utilization and sequestration in Reservoir: Effects and mechanisms of CO2 electrochemical reduction. <i>Applied Energy</i> , 2022, 323, 119584.	5.1	8

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55	Modeling Friction Performance of Drill String Torsional Oscillation Using Dynamic Friction Model. Shock and Vibration, 2017, 2017, 1-14.	0.3	7
56	Evaluation of sweep efficiency in flooding process of reservoir development using substitution index. International Journal of Oil, Gas and Coal Technology, 2015, 9, 1.	0.1	6
57	Inaccuracy in Pipeline-Compressor-Station Construction-Cost Estimation. Oil and Gas Facilities, 2013, 2, 71-79.	0.4	5
58	Prediction of shell content from thin sections using hybrid image process techniques. Journal of Petroleum Science and Engineering, 2018, 163, 45-57.	2.1	4
59	Using high-intensity water flooding relative permeability curve for predicting mature oilfield performance after long-term water flooding in order to realize sustainable development. Journal of Petroleum Science and Engineering, 2022, 215, 110629.	2.1	4
60	Effect of Emulsified Water Droplet on Wax Deposition Path in Multiphase Transportation Pipeline. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	2
61	Inaccuracy in Pipeline Compressor Station Construction Cost Estimation. , 2012, , .		1