Zhenhua Rui

List of Publications by Year
in descending order

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	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. Materials Advances, 2022, 3, 1359-1400.	2.6	17
2	Using propanol as an additive to CO2 for improving CO2 utilization and storage in oil reservoirs. Applied Energy, 2022, 311, 118640.	5.1	57
3	A Storage-Driven CO2 EOR for a Net-Zero Emission Target. Engineering, 2022, 18, 79-87.	3.2	73
4	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
5	CO2 utilization and sequestration in Reservoir: Effects and mechanisms of CO2 electrochemical reduction. Applied Energy, 2022, 323, 119584.	5.1	8
6	Physical Simulation of Hydraulic Fracturing of Large-Sized Tight Sandstone Outcrops. SPE Journal, 2021, 26, 372-393.	1.7	99
7	Whole process analysis of geothermal exploitation and power generation from a depleted high-temperature gas reservoir by recycling CO2. Energy, 2021, 217, 119340.	4.5	67
8	Review on Pore Structure Characterization and Microscopic Flow Mechanism of CO₂ Flooding in Porous Media. Energy Technology, 2021, 9, .	1.8	60
9	Foaming Properties and Foam Structure of Produced Liquid in Alkali/Surfactant/Polymer Flooding Production. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	1.4	54
10	Evaluation of Coated Proppant Unconventional Performance. Energy & Fuels, 2021, 35, 9268-9277.	2.5	16
11	Molecular Dynamics-Based Simulation on Chemical Flooding Produced Emulsion Formation and Stabilization: A Critical Review. Arabian Journal for Science and Engineering, 2020, 45, 7161-7173.	1.7	31
12	Improving Oil Recovery Through Fracture Injection and Production of Multiple Fractured Horizontal Wells. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	71
13	A Novel Method for Characterizing the Aggregation of Wax Crystals and An Improvement in Wax Deposition Modeling. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	11
14	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
15	Performance Evaluation of Degradable Temporary Plugging Agent in Laboratory Experiment. Journal of Energy Resources Technology, Transactions of the ASME, 2020, 142, .	1.4	18
16	The injectivity variation prediction model for water flooding oilfields sustainable development. Energy, 2019, 189, 116317.	4.5	15
17	Combustion and emission characteristics of biomass derived biofuel, premixed in a diesel engine: A CFD study. Renewable Energy, 2019, 138, 79-89.	4.3	36
18	Feasibility study of improved unconventional reservoir performance with carbonated water and surfactant. Energy, 2019, 182, 135-147.	4.5	35

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19	Demonstration of a feasible energy-water-environment nexus: Waste sulfur dioxide for water treatment. Applied Energy, 2019, 250, 1011-1022.	5.1	26
20	An integrated technical-economic model for evaluating CO2 enhanced oil recovery development. Applied Energy, 2019, 247, 190-211.	5.1	118
21	Feasibility study of CO2 huff 'n' puff process to enhance heavy oil recovery via long core experiments. Applied Energy, 2019, 236, 526-539.	5.1	80
22	Lithofacies distribution and gas-controlling characteristics of the Wufengâ€“Longmaxi black shales in the southeastern region of the Sichuan Basin, China. Journal of Petroleum Science and Engineering, 2018, 165, 269-283.	2.1	33
23	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
24	Experimental study of directional propagation of hydraulic fracture guided by multi-radial slim holes. Journal of Petroleum Science and Engineering, 2018, 166, 592-601.	2.1	35
25	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
26	Study on the mechanism of rupture and propagation of T-type fractures in coal fracturing. Journal of Natural Gas Science and Engineering, 2018, 52, 379-389.	2.1	38
27	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
28	A quantitative framework for evaluating unconventional well development. Journal of Petroleum Science and Engineering, 2018, 166, 900-905.	2.1	105
29	The influence of complicated fluid-rock interactions on the geothermal exploitation in the CO2 plume geothermal system. Applied Energy, 2018, 227, 49-63.	5.1	119
30	An Improved Rate-Transient Analysis Model of Multi-Fractured Horizontal Wells with Non-Uniform Hydraulic Fracture Properties. Energies, 2018, 11, 393.	1.6	53
31	Comprehensive risk assessment of high sulfur-containing gas well. Journal of Petroleum Science and Engineering, 2018, 170, 888-897.	2.1	13
32	Assessing the combined influence of fluid-rock interactions on reservoir properties and injectivity during CO2 storage in saline aquifers. Energy, 2018, 155, 281-296.	4.5	100
33	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
34	Complex Lithofacies Identification Using Improved Probabilistic Neural Networks. Petrophysics, 2018, 59, 245-267.	0.2	11
35	Fractured horizontal well productivity prediction in tight oil reservoirs. Journal of Petroleum Science and Engineering, 2017, 151, 159-168.	2.1	52
36	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

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37	Transient responses of multifractured systems with discrete secondary fractures in unconventional reservoirs. Journal of Natural Gas Science and Engineering, 2017, 41, 49-62.	2.1	16
38	Unified relative permeability model and waterflooding type curves under different levels of water cut. Journal of Petroleum Science and Engineering, 2017, 154, 204-216.	2.1	17
39	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
40	Investigation into the performance of oil and gas projects. Journal of Natural Gas Science and Engineering, 2017, 38, 12-20.	2.1	113
41	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
42	A quantitative oil and gas reservoir evaluation system for development. Journal of Natural Gas Science and Engineering, 2017, 42, 31-39.	2.1	123
43	Pore characterization of isolated organic matter from high matured gas shale reservoir. International Journal of Coal Geology, 2017, 174, 31-40.	1.9	133
44	Evaluation of Acid Fracturing Treatments in Shale Formation. Energy & Fuels, 2017, 31, 10479-10489.	2.5	127
45	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
46	Modeling Friction Performance of Drill String Torsional Oscillation Using Dynamic Friction Model. Shock and Vibration, 2017, 2017, 1-14.	0.3	7
47	The Role of Shearing Energy and Interfacial Gibbs Free Energy in the Emulsification Mechanism of Waxy Crude Oil. Energies, 2017, 10, 721.	1.6	24
48	An integrated workflow for characterization and simulation of complex fracture networks utilizing microseismic and horizontal core data. Journal of Natural Gas Science and Engineering, 2016, 34, 1347-1360.	2.1	57
49	A new method to determine Biot's coefficients of Bakken samples. Journal of Natural Gas Science and Engineering, 2016, 35, 259-264.	2.1	60
50	Case studies on the CO2 storage and EOR in heterogeneous, highly water-saturated, and extra-low permeability Chinese reservoirs. Journal of Natural Gas Science and Engineering, 2016, 29, 275-283.	2.1	51
51	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
52	A simulation method for modified isochronal well testing to determine shale gas well productivity. Journal of Natural Gas Science and Engineering, 2015, 27, 479-485.	2.1	38
53	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
54	The qualitative and quantitative fracture evaluation methodology in shale gas reservoir. Journal of Natural Gas Science and Engineering, 2015, 27, 486-495.	2.1	42

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55	The CO2 storage capacity evaluation: Methodology and determination of key factors. Journal of the Energy Institute, 2014, 87, 297-305.	2.7	32
56	Pipeline compressor station construction cost analysis. International Journal of Oil, Gas and Coal Technology, 2014, 8, 41.	0.1	18
57	A comprehensive analysis of natural gas distribution pipeline incidents. International Journal of Oil, Gas and Coal Technology, 2013, 6, 528.	0.1	14
58	Inaccuracy in Pipeline-Compressor-Station Construction-Cost Estimation. Oil and Gas Facilities, 2013, 2, 71-79.	0.4	5
59	An analysis of inaccuracy in pipeline construction cost estimation. International Journal of Oil, Gas and Coal Technology, 2012, 5, 29.	0.1	21
60	Inaccuracy in Pipeline Compressor Station Construction Cost Estimation. , 2012, , .		1
61	Historical pipeline construction cost analysis. International Journal of Oil, Gas and Coal Technology, 2011, 4, 244.	0.1	42