## Mofazzal Hossain

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hydraulic fracture initiation and propagation: roles of wellbore trajectory, perforation and stress regimes. Journal of Petroleum Science and Engineering, 2000, 27, 129-149.	4.2	278
2	Numerical simulation of complex fracture growth during tight reservoir stimulation by hydraulic fracturing. Journal of Petroleum Science and Engineering, 2008, 60, 86-104.	4.2	127
3	A shear-dilation-based model for evaluation of hydraulically stimulated naturally fractured reservoirs. International Journal for Numerical and Analytical Methods in Geomechanics, 2002, 26, 469-497.	3.3	88
4	Numerical and experimental investigation of the interaction of natural and propagated hydraulic fracture. Journal of Natural Gas Science and Engineering, 2017, 37, 409-424.	4.4	83
5	A Shear Dilation Stimulation Model for Production Enhancement From Naturally Fractured Reservoirs. SPE Journal, 2002, 7, 183-195.	3.1	55
6	A Review on the Influence of CO2/Shale Interaction on Shale Properties: Implications of CCS in Shales. Energies, 2020, 13, 3200.	3.1	54
7	Electrostatic Origins of CO2-Increased Hydrophilicity in Carbonate Reservoirs. Scientific Reports, 2018, 8, 17691.	3.3	49
8	Effect of electrical double layer and ion exchange on low salinity EOR in a pH controlled system. Journal of Petroleum Science and Engineering, 2019, 174, 418-424.	4.2	49
9	Effect of supercritical CO2 treatment on physical properties and functional groups of shales. Fuel, 2021, 303, 121310.	6.4	47
10	Analytical, numerical and experimental investigations of transverse fracture propagation from horizontal wells. Journal of Petroleum Science and Engineering, 2002, 35, 127-150.	4.2	44
11	Numerical simulation for the determination of hydraulic fracture initiation and breakdown pressure using distinct element method. Journal of Natural Gas Science and Engineering, 2016, 33, 1219-1232.	4.4	38
12	Near Wellbore Hydraulic Fracture Propagation from Perforations in Tight Rocks: The Roles of Fracturing Fluid Viscosity and Injection Rate. Energies, 2017, 10, 359.	3.1	37
13	Analytical modelling of wettability alteration-induced micro-fractures during hydraulic fracturing in tight oil reservoirs. Fuel, 2019, 249, 434-440.	6.4	37
14	Surface wettability alteration of shales exposed to CO2: Implication for long-term integrity of geological storage sites. International Journal of Greenhouse Gas Control, 2021, 110, 103426.	4.6	32
15	Wettability alteration induced water uptake in shale oil reservoirs: A geochemical interpretation for oil-brine-OM interaction during hydraulic fracturing. International Journal of Coal Geology, 2019, 213, 103277.	5.0	31
16	The impact of supercritical CO2 on the pore structure and storage capacity of shales. Journal of Natural Gas Science and Engineering, 2022, 98, 104394.	4.4	30
17	Geochemical modelling of CO2 interactions with shale: Kinetics of mineral dissolution and precipitation on geological time scales. Chemical Geology, 2022, 592, 120742.	3.3	29
18	Determination of best possible correlation for gas compressibility factor to accurately predict the initial gas reserves in gas-hydrocarbon reservoirs. International Journal of Hydrogen Energy, 2017, 42, 25492-25508.	7.1	28

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19	Effect of the Fluid–Shale Interaction on Salinity: Implications for High-Salinity Flowback Water during Hydraulic Fracturing in Shales. Energy & Fuels, 2020, 34, 3031-3040.	5.1	27
20	Title is missing!. International Journal of Fracture, 2000, 103, 243-258.	2.2	25
21	A practical method for the evaluation of the Joule Thomson effects to predict flowing temperature profile in gas producing wells. Journal of Natural Gas Science and Engineering, 2015, 26, 1080-1090.	4.4	24
22	Full waveform acoustic data as an aid in reducing uncertainty of mud window design in the absence of leak-off test. Journal of Natural Gas Science and Engineering, 2017, 45, 786-796.	4.4	24
23	Stress concentration incorporated fatigue analysis of die-marked drill pipes. International Journal of Fatigue, 1999, 21, 799-811.	5.7	22
24	Characterizing natural fractures productivity in tight gas reservoirs. Journal of Petroleum Exploration and Production, 2012, 2, 107-115.	2.4	21
25	Interpreting Water Uptake by Shale with Ion Exchange, Surface Complexation, and Disjoining Pressure. Energy & Fuels, 2019, 33, 8250-8258.	5.1	20
26	Volumetric Growth and Hydraulic Conductivity of Naturally Fractured Reservoirs During Hydraulic Fracturing: A Case Study Using Australian Conditions. , 2000, , .		18
27	Evaluation of the Potentials for Adapting the Multistage Hydraulic Fracturing Technology in Tight Carbonate Reservoir. , 2019, , .		17
28	Drivers of Wettability Alteration for Oil/Brine/Kaolinite System: Implications for Hydraulic Fracturing Fluids Uptake in Shale Rocks. Energies, 2018, 11, 1666.	3.1	16
29	A Comprehensive Monograph for Hydraulic Fracture Initiation From Deviated Wellbores Under Arbitrary Stress Regimes. , 1999, , .		15
30	Role of brine composition on rock surface energy and its implications for subcritical crack growth in calcite. Journal of Molecular Liquids, 2020, 303, 112638.	4.9	14
31	Optimization of Fracture Parameters for Hydraulic Fractured Horizontal Well in a Heterogeneous Tight Reservoir: An Equivalent Homogeneous Modelling Approach. , 2019, , .		13
32	Response of Non-Polar Oil Component on Low Salinity Effect in Carbonate Reservoirs: Adhesion Force Measurement Using Atomic Force Microscopy. Energies, 2020, 13, 77.	3.1	12
33	Interpreting micromechanics of fluid-shale interactions with geochemical modelling and disjoining pressure: Implications for calcite-rich and quartz-rich shales. Journal of Molecular Liquids, 2020, 319, 114117.	4.9	11
34	A new practical method to evaluate the Joule–Thomson coefficient for natural gases. Journal of Petroleum Exploration and Production, 2018, 8, 1169-1181.	2.4	10
35	Survival assessment of die-marked drill pipes:. Engineering Failure Analysis, 1999, 6, 277-299.	4.0	9
36	Application of emulsified acids on sandstone formation at elevated temperature conditions: an experimental study. Journal of Petroleum Exploration and Production, 2019, 9, 1323-1329.	2.4	9

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37	Trace element bioaccumulation in edible red seaweeds (Rhodophyta): A risk assessment for consumers. Environmental Pollution, 2022, 307, 119560.	7.5	9
38	Synthesis of Graphitic Mesoporous Carbon from Metal Impregnated Silica Template for Proton Exchange Membrane Fuel Cell Application. Fuel Cells, 2019, 19, 27-34.	2.4	8
39	Optimization of Infill Drilling in Whicher Range Field in Australia. , 2017, , .		7
40	Fluid flow through porous media using distinct element based numerical method. Journal of Petroleum Exploration and Production, 2016, 6, 217-242.	2.4	6
41	Numerical Approach for the Prediction of Formation and Hydraulic Fracture Properties Considering Elliptical Flow Regime in Tight Gas Reservoirs. , 2018, , .		6
42	Developed Material Balance Approach for Estimating Gas Initially in Place and Ultimate Recovery for Tight Gas Reservoirs. , 2016, , .		5
43	A New Practical Method for Predicting Equivalent Drainage Area of Well in Tight Gas Reservoirs. , 2017, , .		5
44	Numerical Simulation of Gas Lift Optimization Using Genetic Algorithm for a Middle East Oil Field: Feasibility Study. , 2020, , .		5
45	Effect of Sand Lens Size and Hydraulic Fractures Parameters on Gas in Place Estimation Using â€~P/Z vs Gp Method' in Tight Gas Reservoirs. , 2012, , .		4
46	Incremental and acceleration production estimation and their effect on optimization of well infill locations in tight gas reservoirs. Journal of Petroleum Exploration and Production, 2021, 11, 2449-2480.	2.4	4
47	Performance evaluation of analytical methods in linear flow data for hydraulically-fractured gas wells. Journal of Petroleum Science and Engineering, 2022, 208, 109467.	4.2	4
48	Rice Bakanae Disease: Yield Loss and Management Issues in Bangladesh. Food Science and Technology (United States), 2021, 9, 7-16.	0.3	3
49	Comparative assessment of bioactive compounds, antioxidant capacity and nutritional quality of red seaweeds and water spinach. Regional Studies in Marine Science, 2021, 46, 101878.	0.7	3
50	Production decline analysis and forecasting in tight-gas reservoirs. APPEA Journal, 2012, 52, 573.	0.2	3
51	Effect of Sand Lens Size and Hydraulic Fractures Orientation on Tight Gas Reservoirs Ultimate Recovery. , 2012, , .		2
52	Evaluation of Factors Influencing the Effectiveness of Passive and Autonomous Inflow Control Devices. , 2017, , .		2
53	Welltest analysis of hydraulically fractured tight gas reservoirs: a field example from Perth Basin, Western Australia. APPEA Journal, 2012, 52, 587.	0.2	2
54	Lowering the phase-trap damage in tight-gas reservoirs by using interfacial tension (IFT) reducers. APPEA Journal, 2013, 53, 363.	0.2	2

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55	Effect of Mud Filtrate Invasion on Measurement of Formation Pressure and Determination of Gas-Water Contact Depth in Tight Gas Reservoirs. , 2015, , .		1
56	Evaluation of Damage Mechanisms in Tight Gas Reservoirs: Field Example from Perth Basin. , 2015, , .		1
57	Numerical Modeling for the Prediction of Residual CO2 Trapping in Water-Wet Geological Porous Media. , 2016, , .		1
58	Investigating Impact of Various Properties on Relative Permeability and Non-Wetting Phase Fractional Flow in Brine/Oil System in Water-Wet Reservoir Rock by Numerical Simulation. , 2017, , .		1
59	A Practical Numerical Approach for the Determination of Flow Contribution of Multi-Zones Wellbores. , 2017, , .		1
60	Comparison of different models for predicting drainage relative permeability using pore scale numerical simulation of supercritical carbon dioxide and brine flow IOP Conference Series: Materials Science and Engineering, 2019, 495, 012111.	0.6	1
61	Thermal Hydraulic Fracturing Applying Cryogenic Freezing Technique. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012076.	0.6	1
62	The application of downhole gas compression to improve productivity for depleted natural gas reservoirs. APPEA Journal, 2013, 53, 369.	0.2	1
63	Estimate Gas Initially in Place of Tight Gas Reservoirs Based on Developed Methodology of Dynamic Material Balance Technique. Iraqi Geological Journal, 2021, 54, 15-29.	0.3	1
64	Effect of well scheduling and pattern on project development management in unconventional tight gas reservoirs. Arabian Journal of Geosciences, 2022, 15, .	1.3	1
65	Estimating Cleat Characteristics in Reservoir Simulation Models of Coal Seam Gas Reservoirs Using Welltest Analysis. , 2015, , .		Ο
66	Improving reservoir performance using intelligent well completion sensors combined with surface wet-gas flow measurement. APPEA Journal, 2012, 52, 181.	0.2	0
67	The effect of hydraulic-fracture parameters on the welltest response of multi-fractured tight-gas reservoirs. APPEA Journal, 2013, 53, 375.	0.2	Ο