

# Mofazzal Hossain

## List of Publications by Year in descending order

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Version: 2024-02-01

67  
papers

1,533  
citations

304368

22  
h-index

329751

37  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic fracture initiation and propagation: roles of wellbore trajectory, perforation and stress regimes. <i>Journal of Petroleum Science and Engineering</i> , 2000, 27, 129-149.	2.1	278
2	Numerical simulation of complex fracture growth during tight reservoir stimulation by hydraulic fracturing. <i>Journal of Petroleum Science and Engineering</i> , 2008, 60, 86-104.	2.1	127
3	A shear-dilation-based model for evaluation of hydraulically stimulated naturally fractured reservoirs. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2002, 26, 469-497.	1.7	88
4	Numerical and experimental investigation of the interaction of natural and propagated hydraulic fracture. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 37, 409-424.	2.1	83
5	A Shear Dilation Stimulation Model for Production Enhancement From Naturally Fractured Reservoirs. <i>SPE Journal</i> , 2002, 7, 183-195.	1.7	55
6	A Review on the Influence of CO <sub>2</sub> /Shale Interaction on Shale Properties: Implications of CCS in Shales. <i>Energies</i> , 2020, 13, 3200.	1.6	54
7	Electrostatic Origins of CO <sub>2</sub> -Increased Hydrophilicity in Carbonate Reservoirs. <i>Scientific Reports</i> , 2018, 8, 17691.	1.6	49
8	Effect of electrical double layer and ion exchange on low salinity EOR in a pH controlled system. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 418-424.	2.1	49
9	Effect of supercritical CO <sub>2</sub> treatment on physical properties and functional groups of shales. <i>Fuel</i> , 2021, 303, 121310.	3.4	47
10	Analytical, numerical and experimental investigations of transverse fracture propagation from horizontal wells. <i>Journal of Petroleum Science and Engineering</i> , 2002, 35, 127-150.	2.1	44
11	Numerical simulation for the determination of hydraulic fracture initiation and breakdown pressure using distinct element method. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 1219-1232.	2.1	38
12	Near Wellbore Hydraulic Fracture Propagation from Perforations in Tight Rocks: The Roles of Fracturing Fluid Viscosity and Injection Rate. <i>Energies</i> , 2017, 10, 359.	1.6	37
13	Analytical modelling of wettability alteration-induced micro-fractures during hydraulic fracturing in tight oil reservoirs. <i>Fuel</i> , 2019, 249, 434-440.	3.4	37
14	Surface wettability alteration of shales exposed to CO <sub>2</sub> : Implication for long-term integrity of geological storage sites. <i>International Journal of Greenhouse Gas Control</i> , 2021, 110, 103426.	2.3	32
15	Wettability alteration induced water uptake in shale oil reservoirs: A geochemical interpretation for oil-brine-OM interaction during hydraulic fracturing. <i>International Journal of Coal Geology</i> , 2019, 213, 103277.	1.9	31
16	The impact of supercritical CO <sub>2</sub> on the pore structure and storage capacity of shales. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 98, 104394.	2.1	30
17	Geochemical modelling of CO <sub>2</sub> interactions with shale: Kinetics of mineral dissolution and precipitation on geological time scales. <i>Chemical Geology</i> , 2022, 592, 120742.	1.4	29
18	Determination of best possible correlation for gas compressibility factor to accurately predict the initial gas reserves in gas-hydrocarbon reservoirs. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25492-25508.	3.8	28

#	ARTICLE	IF	CITATIONS
19	Effect of the Fluid–Shale Interaction on Salinity: Implications for High-Salinity Flowback Water during Hydraulic Fracturing in Shales. <i>Energy &amp; Fuels</i> , 2020, 34, 3031-3040.	2.5	27
20	Title is missing!. <i>International Journal of Fracture</i> , 2000, 103, 243-258.	1.1	25
21	A practical method for the evaluation of the Joule Thomson effects to predict flowing temperature profile in gas producing wells. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1080-1090.	2.1	24
22	Full waveform acoustic data as an aid in reducing uncertainty of mud window design in the absence of leak-off test. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 786-796.	2.1	24
23	Stress concentration incorporated fatigue analysis of die-marked drill pipes. <i>International Journal of Fatigue</i> , 1999, 21, 799-811.	2.8	22
24	Characterizing natural fractures productivity in tight gas reservoirs. <i>Journal of Petroleum Exploration and Production</i> , 2012, 2, 107-115.	1.2	21
25	Interpreting Water Uptake by Shale with Ion Exchange, Surface Complexation, and Disjoining Pressure. <i>Energy &amp; Fuels</i> , 2019, 33, 8250-8258.	2.5	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. <i>Energies</i> , 2018, 11, 1666.	1.6	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. <i>Journal of Molecular Liquids</i> , 2020, 303, 112638.	2.3	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. <i>Energies</i> , 2020, 13, 77.	1.6	12
33	Interpreting micromechanics of fluid-shale interactions with geochemical modelling and disjoining pressure: Implications for calcite-rich and quartz-rich shales. <i>Journal of Molecular Liquids</i> , 2020, 319, 114117.	2.3	11
34	A new practical method to evaluate the Joule–Thomson coefficient for natural gases. <i>Journal of Petroleum Exploration and Production</i> , 2018, 8, 1169-1181.	1.2	10
35	Survival assessment of die-marked drill pipes. <i>Engineering Failure Analysis</i> , 1999, 6, 277-299.	1.8	9
36	Application of emulsified acids on sandstone formation at elevated temperature conditions: an experimental study. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 1323-1329.	1.2	9

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37	Trace element bioaccumulation in edible red seaweeds (Rhodophyta): A risk assessment for consumers. <i>Environmental Pollution</i> , 2022, 307, 119560.	3.7	9
38	Synthesis of Graphitic Mesoporous Carbon from Metal Impregnated Silica Template for Proton Exchange Membrane Fuel Cell Application. <i>Fuel Cells</i> , 2019, 19, 27-34.	1.5	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. <i>Journal of Petroleum Exploration and Production</i> , 2016, 6, 217-242.	1.2	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 $\hat{a}^{\sim}P/Z$ vs $G_p$ Method <sup>TM</sup> 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. <i>Journal of Petroleum Exploration and Production</i> , 2021, 11, 2449-2480.	1.2	4
47	Performance evaluation of analytical methods in linear flow data for hydraulically-fractured gas wells. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109467.	2.1	4
48	Rice Bakanae Disease: Yield Loss and Management Issues in Bangladesh. <i>Food Science and Technology (United States)</i> , 2021, 9, 7-16.	0.2	3
49	Comparative assessment of bioactive compounds, antioxidant capacity and nutritional quality of red seaweeds and water spinach. <i>Regional Studies in Marine Science</i> , 2021, 46, 101878.	0.4	3
50	Production decline analysis and forecasting in tight-gas reservoirs. <i>APPEA Journal</i> , 2012, 52, 573.	0.4	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. <i>APPEA Journal</i> , 2012, 52, 587.	0.4	2
54	Lowering the phase-trap damage in tight-gas reservoirs by using interfacial tension (IFT) reducers. <i>APPEA Journal</i> , 2013, 53, 363.	0.4	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.	0.3	1
61	Thermal Hydraulic Fracturing Applying Cryogenic Freezing Technique. IOP Conference Series: Materials Science and Engineering, 2019, 495, 012076.	0.3	1
62	The application of downhole gas compression to improve productivity for depleted natural gas reservoirs. APPEA Journal, 2013, 53, 369.	0.4	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.	0.1	1
64	Effect of well scheduling and pattern on project development management in unconventional tight gas reservoirs. Arabian Journal of Geosciences, 2022, 15, .	0.6	1
65	Estimating Cleat Characteristics in Reservoir Simulation Models of Coal Seam Gas Reservoirs Using Welltest Analysis. , 2015, , .		0
66	Improving reservoir performance using intelligent well completion sensors combined with surface wet-gas flow measurement. APPEA Journal, 2012, 52, 181.	0.4	0
67	The effect of hydraulic-fracture parameters on the welltest response of multi-fractured tight-gas reservoirs. APPEA Journal, 2013, 53, 375.	0.4	0