

# Hassan Dehghanpour

## List of Publications by Year in descending order

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85  
papers

2,701  
citations

185998

28  
h-index

205818

48  
g-index

86  
all docs

86  
docs citations

86  
times ranked

1235  
citing authors

#	ARTICLE	IF	CITATIONS
1	The fate of fracturing water: A field and simulation study. <i>Fuel</i> , 2016, 163, 282-294.	3.4	223
2	Impact of rock fabric on water imbibition and salt diffusion in gas shales. <i>International Journal of Coal Geology</i> , 2015, 138, 55-67.	1.9	203
3	Organic shale wettability and its relationship to other petrophysical properties: A Duvernay case study. <i>International Journal of Coal Geology</i> , 2017, 169, 74-91.	1.9	123
4	A comparative study of flowback rate and pressure transient behavior in multifractured horizontal wells completed in tight gas and oil reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 82-93.	2.1	122
5	A comparative investigation of shale wettability: The significance of pore connectivity. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1174-1188.	2.1	117
6	Water sorption behaviour of gas shales: I. Role of clays. <i>International Journal of Coal Geology</i> , 2017, 179, 130-138.	1.9	108
7	Water sorption behaviour of gas shales: II. Pore size distribution. <i>International Journal of Coal Geology</i> , 2017, 179, 187-195.	1.9	99
8	Laboratory and field analysis of flowback water from gas shales. <i>Journal of Unconventional Oil and Gas Resources</i> , 2016, 14, 113-127.	3.5	88
9	A model for simultaneous matrix depletion into natural and hydraulic fracture networks. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 16, 57-69.	2.1	86
10	Wettability of the Montney Tight Gas Formation. <i>SPE Reservoir Evaluation and Engineering</i> , 2015, 18, 417-431.	1.1	75
11	Fracture Characterization Using Flowback Salt-Concentration Transient. <i>SPE Journal</i> , 2016, 21, 233-244.	1.7	75
12	A Theory for Relative Permeability of Unconventional Rocks With Dual-Wettability Pore Network. <i>SPE Journal</i> , 2016, 21, 1970-1980.	1.7	68
13	Flowback Volumetric and Chemical Analysis for Evaluating Load Recovery and Its Impact on Early-Time Production. , 2013, , .		61
14	Water Loss Versus Soaking Time: Spontaneous Imbibition in Tight Rocks. <i>Energy Technology</i> , 2014, 2, 1033-1039.	1.8	59
15	Experimental investigation of CO <sub>2</sub> -oil interactions in tight rocks: A Montney case study. <i>Fuel</i> , 2017, 203, 853-867.	3.4	59
16	Modelling flowback as a transient two-phase depletion process. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 19, 258-278.	2.1	56
17	A modified model for spontaneous imbibition of wetting phase into fractal porous media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 543, 64-75.	2.3	56
18	Displacement of water by gas in propped fractures: Combined effects of gravity, surface tension, and wettability. <i>Journal of Unconventional Oil and Gas Resources</i> , 2014, 5, 10-21.	3.5	53

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19	A flowing material balance equation for two-phase flowback analysis. Journal of Petroleum Science and Engineering, 2016, 142, 170-185.	2.1	48
20	Flowback Analysis for Fracture Characterization. , 2012, , .		47
21	A Triple Porosity Model for Shale Gas Reservoirs. , 2011, , .		46
22	Advances in Understanding Wettability of Tight Oil Formations: A Montney Case Study. SPE Reservoir Evaluation and Engineering, 2016, 19, 583-603.	1.1	46
23	Tight rock wettability and its relationship to other petrophysical properties: A Montney case study. Journal of Earth Science (Wuhan, China), 2017, 28, 381-390.	1.1	40
24	Modelling imbibition data for determining size distribution of organic and inorganic pores in unconventional rocks. International Journal of Coal Geology, 2019, 201, 26-43.	1.9	33
25	Analyzing the production data of fractured horizontal wells by a linear triple porosity model: Development of analysis equations. Journal of Petroleum Science and Engineering, 2013, 112, 117-128.	2.1	32
26	A molecular dynamics explanation for fast imbibition of oil in organic tight rocks. Fuel, 2017, 190, 409-419.	3.4	32
27	Effect of kerogen maturity on organic shale wettability: A Duvernay case study. Marine and Petroleum Geology, 2019, 110, 483-496.	1.5	32
28	Quantification of convective and diffusive transport during CO2 dissolution in oil: A numerical and analytical study. Physics of Fluids, 2020, 32, 085110.	1.6	32
29	Estimating Effective Fracture Pore Volume From Flowback Data and Evaluating Its Relationship to Design Parameters of Multistage-Fracture Completion. SPE Production and Operations, 2017, 32, 423-439.	0.4	30
30	Imbibition oil recovery from tight rocks with dual-wettability behavior. Journal of Petroleum Science and Engineering, 2018, 167, 180-191.	2.1	30
31	Effects of Dissolved Oxygen on Water Imbibition in Gas Shales. Energy & Fuels, 2018, 32, 4695-4704.	2.5	28
32	Effectiveness and time variation of induced fracture volume: Lessons from water flowback analysis. Fuel, 2017, 210, 844-858.	3.4	27
33	Evaluation of Imbibition Oil Recovery in the Duvernay Formation. SPE Reservoir Evaluation and Engineering, 2018, 21, 257-272.	1.1	27
34	Effect of Electrostatic Interactions on Water Uptake of Gas Shales: The Interplay of Solution Ionic Strength and Electrostatic Double Layer. Energy & Fuels, 0, , .	2.5	24
35	Unstable Displacement: A Missing Factor in Fracturing Fluid Recovery. , 2012, , .		22
36	Enhancing Oil Recovery by Adding Surfactants in Fracturing Water: A Montney Case Study. , 2018, , .		22

#	ARTICLE	IF	CITATIONS
37	A complementary approach for uncertainty reduction in post-flowback production data analysis. Journal of Natural Gas Science and Engineering, 2015, 27, 1074-1091.	2.1	20
38	Measuring diffusion coefficients of gaseous propane in heavy oil at elevated temperatures. Journal of Thermal Analysis and Calorimetry, 2020, 139, 2633-2645.	2.0	20
39	An Experimental Study of Nonequilibrium Carbon Dioxide/Oil Interactions. SPE Journal, 2018, 23, 1768-1783.	1.7	19
40	Wetting Behavior of Tight Rocks: From Core Scale to Pore Scale. Water Resources Research, 2018, 54, 9162-9186.	1.7	18
41	Experimental Investigation for Microscale Stimulation of Shales By Water Imbibition During the Shut-in Periods. , 2017, , .		17
42	An approach to model three-phase flow coupling during steam chamber rise. Canadian Journal of Chemical Engineering, 2014, 92, 1100-1112.	0.9	14
43	An Experimental and Modeling Study on Interactions of Cold Lake Bitumen with CO <sub>2</sub> , C <sub>3</sub> , and C <sub>4</sub> at High Temperatures. Energy & Fuels, 2019, 33, 3957-3969.	2.5	14
44	Post-flowback production data suggest oil drainage from a limited stimulated reservoir volume: An Eagle Ford shale-oil case. International Journal of Coal Geology, 2020, 224, 103469.	1.9	14
45	A Theoretical Explanation for Wettability Alteration by Adding Nanoparticles in Oil-Water-Tight Rock Systems. Energy & Fuels, 2021, 35, 7787-7798.	2.5	14
46	A Comparative Study of Transient and Steady-State Three-Phase Oil Permeability. Journal of Canadian Petroleum Technology, 2013, 52, 54-63.	2.3	12
47	A Workflow for Flowback Data Analysis – Creating Value out of Chaos. , 2014, , .		12
48	Pseudo-steady state analysis in fractured tight oil reservoirs. Journal of Petroleum Science and Engineering, 2015, 129, 40-47.	2.1	12
49	The use of flowback data for estimating dynamic fracture volume and its correlation with completion-design parameters: Eagle Ford cases. Journal of Petroleum Science and Engineering, 2020, 195, 107584.	2.1	12
50	Numerical investigation of limitations and assumptions of analytical transient flow models in tight oil reservoirs. Journal of Natural Gas Science and Engineering, 2016, 30, 471-486.	2.1	11
51	Estimating compressibility of complex fracture networks in unconventional reservoirs. International Journal of Rock Mechanics and Minings Sciences, 2020, 127, 104186.	2.6	11
52	Evaluating Fracture Volume Loss During Flowback and Its Relationship to Choke Size: Fastback vs. Slowback. SPE Production and Operations, 2019, 34, 615-624.	0.4	10
53	Enhancing Imbibition Oil Recovery from Tight Rocks by Mixing Nonionic Surfactants. Energy & Fuels, 2020, 34, 12301-12313.	2.5	10
54	Rock-Fluid Interactions in the Duvernay Formation: Measurement of Wettability and Imbibition Oil Recovery. , 2017, , .		9

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55	Produced Flowback Salts vs. Induced-Fracture Interface: A Field and Laboratory Study. SPE Journal, 2019, 24, 1309-1321.	1.7	9
56	Imbibition Oil Recovery from the Montney Core Plugs: The Interplay of Wettability, Osmotic Potential and Microemulsion Effects. , 2019, , .		9
57	Evaluating porous media wettability from changes in Helmholtz free energy using spontaneous imbibition profiles. Advances in Water Resources, 2021, 157, 104038.	1.7	9
58	New Advances in Production Data Analysis of Hydraulically Fractured Tight Reservoirs. , 2012, , .		8
59	The effects of kerogen maturity on pore structure and wettability of organic-rich calcareous shales. Journal of Molecular Liquids, 2022, 362, 119577.	2.3	8
60	A Model and Measurement Technique for Liquid Permeability of Tight Porous Media Based on the Steady-State Method. Energy & Fuels, 2022, 36, 6860-6867.	2.5	8
61	Liquid imbibition in tight rocks: The role of disjoining pressure. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127037.	2.3	7
62	Advances in Flowback Chemical Analysis of Gas Shales. , 2015, , .		6
63	Complementary Surveillance Microseismic and Flowback Data Analysis: An Approach to Evaluate Complex Fracture Networks. , 2016, , .		6
64	Advances in Understanding Liquid Flow in Gas Shales. , 2014, , .		5
65	Modeling Three-Phase Flow During Steam Chamber Rise-Impact of Water Drainage on Oil Production Rate. , 2013, , .		4
66	Chemical Analysis of Flowback Water and Downhole Gas Shale Samples. , 2015, , .		4
67	Evaluating Fracture Volume Loss during Flowback and its Relationship to Choke Size: Fastback versus Slowback. , 2018, , .		4
68	A Simulation Study on Solvent-Aided Process using C3 and C4 in Clearwater Oil-Sand Formation. Journal of Petroleum Science and Engineering, 2020, 184, 106267.	2.1	4
69	An experimental and field case study to evaluate the effects of shut-in on well performance. Journal of Petroleum Science and Engineering, 2022, 208, 109318.	2.1	4
70	Dynamic Fracture Volume Estimation using Flowback Data Analysis and its Correlation to Completion-Design Parameters. , 2019, , .		3
71	Estimating Residual Fracture Pore Volume by Analyzing Post-Flowback Water Production: An Eagle Ford Black-Oil Case. , 2019, , .		3
72	Flowback Chemical Analysis: An Interplay of Shale-Water Interactions. , 2015, , .		2

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73	Capturing the effects of secondary fractures on production data using flow regime equations and specialised plots: An uncertainty analysis approach. Journal of Petroleum Science and Engineering, 2016, 138, 201-217.	2.1	2
74	Pore Size Distribution of Unconventional Rocks with Dual-Wet Pore Network: A Sequential Spontaneous and Forced Imbibition Technique. , 2019, , .		2
75	Coupled Versus Stratified Flow of Water and Hydrocarbon During Flowback and Post-flowback Processes. , 2020, , .		2
76	Effects of Electro-Oxidation Process on Tight-Rock Wettability and Imbibition Oil Recovery. Energy & Fuels, 2022, 36, 6771-6784.	2.5	2
77	Fracture Network Characterization by Analyzing Flowback Salts: Scale-Up of Experimental Data. , 2017, , .		1
78	Investigating Well Interference in a Multi-Well Pad by Combined Flowback and Tracer Analysis. , 2017, , .		1
79	Quantifying Oil-Recovery Mechanisms During Natural-Gas Huff n Puff Experiments on Ultratight Core Plugs. , 2020, , .		1
80	Advances in Understanding Relative Permeability Shifts by Imbibition of Surfactant Solutions into Tight Plugs. , 2020, , .		1
81	Tight Rock Wettability and Its Relationship With Petrophysical Properties. , 2019, , 155-171.		0
82	Advances in Flowback Data Analysis for Estimating Average Fracture Compressibility: North American Case Studies. , 2019, , .		0
83	A Laboratory Protocol for Evaluating Microemulsions for Enhanced Oil Recovery while Fracturing. , 2020, , .		0
84	Wettability of Calcareous Shales from the East Duvernay Basin: The Role of Natural Fractures, Thermal Maturity, and Organic-Pore Connectivity. , 2020, , .		0
85	Advances in flowback analysis: fracturing water production obeys a simple decline model. , 2022, , 299-321.		0