Mehdi Zeidouni

List of Publications by Year
in descending order

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52 papers	697 citations	686830 13 h-index	642321 23 g-index
53 all docs	53 docs citations	53 times ranked	397 citing authors

#	Article	IF	Citations
1	Analytical solution to evaluate salt precipitation during CO2 injection in saline aquifers. International Journal of Greenhouse Gas Control, 2009, 3, 600-611.	2.3	118
2	Assessing leakage detectability at geologic CO2 sequestration sites using the probabilistic collocation method. Advances in Water Resources, 2013, 56, 49-60.	1.7	67
3	Analytical model of leakage through fault to overlying formations. Water Resources Research, 2012, 48, .	1.7	39
4	Monitoring above-zone temperature variations associated with CO2 and brine leakage from a storage aquifer. Environmental Earth Sciences, 2014, 72, 1733-1747.	1.3	30
5	Leakage characterization through above-zone pressure monitoring: 1â€”Inversion approach. Journal of Petroleum Science and Engineering, 2012, 98-99, 95-106.	2.1	26
6	Analytical model of well leakage pressure perturbations in a closed aquifer system. Advances in Water Resources, 2014, 69, 13-22.	1.7	26
7	Temperature analysis for early detection and rate estimation of CO2 wellbore leakage. International Journal of Greenhouse Gas Control, 2017, 67, 20-30.	2.3	26
8	Leakage characterization through above-zone pressure monitoring: 2â€”Design considerations with application to CO2 storage in saline aquifers. Journal of Petroleum Science and Engineering, 2012, 98-99, 69-82.	2.1	24
9	Analytical Solutions for Temperature Transient Analysis and Near Wellbore Damaged Zone Characterization. , 2017, , .		19
10	Effect of leakage pathway flow properties on thermal signal associated with the leakage from CO₂ storage zone. , 2017, 7, 512-529.		19
11	Accounting for Fluid-Property Variations in Temperature-Transient Analysis. SPE Journal, 2018, 23, 868-884.	1.7	18
12	Geologic Carbon Storage for Shale Gas Recovery. Energy Procedia, 2017, 114, 5748-5760.	1.8	17
13	Temperature monitoring using Distributed Temperature Sensing (DTS) technology. Energy Procedia, 2014, 63, 3984-3991.	1.8	15
14	Analytical Solution to Evaluate Salt Precipitation during CO2 Injection in Saline Aquifers. Energy Procedia, 2009, 1, 1775-1782.	1.8	14
15	Analytical models for determining pressure change in an overlying aquifer due to leakage. Energy Procedia, 2011, 4, 3833-3840.	1.8	14
16	Temperature Transient Analysis for Characterization of Multilayer Reservoirs with Crossflow. , 2017, , .		14
17	Analysis of Warm-Back Data After Cold-Fluid Injection Into Multilayer Reservoirs. SPE Reservoir Evaluation and Engineering, 2020, 23, 212-229.	1.1	13
18	Semi-Analytical Model of Pressure Perturbations Induced by Fault Leakage in Multilayer System. Journal of Hydrologic Engineering - ASCE, 2016, 21, .	0.8	12

#	Article	IF	Citations
19	Temperature transient analysis for bounded oil reservoir under depletion drive. International Journal of Thermal Sciences, 2018, 130, 457-470.	2.6	11
20	Analytical approach for injection profiling through warm-back analysis in multilayer reservoirs. Journal of Petroleum Science and Engineering, 2019, 182, 106274.	2.1	11
21	Identification of above-zone pressure perturbations caused by leakage from those induced by deformation. Environmental Earth Sciences, 2016, 75, 1.	1.3	10
22	Analytical Model for Multifractured Systems in Liquid-Rich Shales with Pressure-Dependent Properties. Transport in Porous Media, 2017, 119, 1-23.	1.2	10
23	Implications of fault structure heterogeneities, dissolution and capillary trapping mechanisms for CO2 storage integrity. International Journal of Greenhouse Gas Control, 2018, 76, 53-61.	2.3	10
24	Analytical Model to Detect Fault Permeability Alteration Induced by Fault Reactivation in Compartmentalized Reservoirs. Water Resources Research, 2018, 54, 5841-5855.	1.7	9
25	Dynamic Temperature Analysis Under Variable Rate and Pressure Conditions for Transient and Boundary Dominated Flow. Transport in Porous Media, 2019, 128, 45-73.	1.2	9
26	Above-Zone Pressure Response to Distinguish Between Fault and Caprock Leakage. , 2017, , .		8
27	Above zone pressure interpretation for leaky well characterization and its identification from leaky caprock/fault. Journal of Petroleum Science and Engineering, 2018, 171, 218-228.	2.1	8
28	Pressure Transient Analysis for Leaky Well Characterization and Its Identification from Leaky Fault. , 2017, , .		7
29	Effects of injection well operation conditions on CO₂ storage capacity in deep saline aquifers. , 2021, 11, 734-749.		7
30	Injection data analysis using material balance time for CO2 storage capacity estimation in deep closed saline aquifers. Journal of Petroleum Science and Engineering, 2022, 208, 109385.	2.1	7
31	Tracer test to constrain CO2 residual trapping and plume evolution. Environmental Earth Sciences, 2016, 75, 1.	1.3	6
32	Near Wellbore Characterization from Temperature Transient Analysis: Accounting for Non-Darcy Flow Effect. , 2017, , .		6
33	Fieldâ€scale well leakage risk assessment using reducedâ€order models. , 2019, 9, 567-581.		6
34	Pressure falloff testing to characterize CO2 plume and dry-out zone during CO2 injection in saline aquifers. International Journal of Greenhouse Gas Control, 2020, 103, 103160.	2.3	6
35	Risk Based Approach to Identify the Leakage Potential of Wells in Depleted Oil and Gas Fields for CO2 Geological Sequestration. , 2017, , .		5
36	Temperature Transient Analysis During Boundary Dominated Flow Period. , 2018, , .		5

#	Article	IF	Citations
37	Response surface modeling of CO 2 dynamic storage efficiency factor in high permeability thick sandstones. , 2019, 9, 1043-1063.		5
38	Fracture diagnostic using distributed temperature measurements during a pause in flow-back period. Journal of Petroleum Science and Engineering, 2020, 185, 106632.	2.1	5
39	Injection profiling in horizontal wells using temperature warmback analysis. Computational Geosciences, 2021, 25, 215-232.	1.2	5
40	Pressure transient technique to constrain CO2 plume boundaries. Environmental Earth Sciences, 2018, 77, 1.	1.3	4
41	Hydromechanical modelling to evaluate impact of fault structure on CO2 migration in stacked storage system. International Journal of Greenhouse Gas Control, 2020, 93, 102886.	2.3	4
42	Static and Dynamic CO2 Storage Capacity Estimates of a Potential CO2 Geological Sequestration Site in Louisiana Chemical Corridor. , 2017, , .		3
43	Warmback analysis to determine fracture geometry of a single-stage hydraulic fracturing stimulation. International Journal of Thermal Sciences, 2020, 155, 106423.	2.6	3
44	CO2 zonal injection rate allocation and plume extent evaluation through wellbore temperature analysis. Advances in Water Resources, 2022, 164, 104203.	1.7	3
45	Interpretation of aboveâ€zone pressure influence time to characterize CO₂ leakage. , 2017, 7, 1050-1064.		2
46	CO2 Plume Characterization Using Pressure Arrival Time. , 2017, , .		2
47	Pressure Pulse Testing Method for Caprock Characterization. , 2018, , .		2
48	Injection Profiling Through Temperature Warmback Analysis Under Variable Injection Rate and Variable Injection Temperature. Transport in Porous Media, 2022, 141, 107.	1.2	2
49	Fracture Diagnostic Using Distributed Temperature Measurements During Stimulation Fluid Flow-Back. , 2019, , .		1
50	Pressure Transient Analysis to Determine Anisotropic Fault Leakage Characteristics. Journal of Hydrologic Engineering - ASCE, 2020, 25, .	0.8	1
51	Crossâ€well pressure test analysis for CO 2 plume characterization based on arrival time and peak pressure change observations. , 0, , .		1
52	Heat pulse testing at monitoring wells to estimate subsurface fluid velocities in geological CO2 storage. Journal of Petroleum Science and Engineering, 2022, , 110621.	2.1	0