List of Publications by Year in descending order

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Ниц-НатТин

#	Article	IF	CITATIONS
1	ls water saturation a fracability indicator for organicâ€rich, yet lowâ€clay content, tight carbonate source rock reservoirs?. Canadian Journal of Chemical Engineering, 2022, 100, 1202-1213.	1.7	2
2	Electromagnetic-heating enhancement of source rock permeability for high recovery. Fuel, 2021, 283, 118976.	6.4	15
3	Development and Verification of an Enhanced Equation of State in TOUGH2. Journal of Verification, Validation and Uncertainty Quantification, 2021, 6, .	0.4	0
4	The optimum pressure drawdown for production from a shale gas reservoir: A numerical study with a coupled geomechanics and reservoir model. Journal of Natural Gas Science and Engineering, 2021, 88, 103848.	4.4	7
5	Incorporation of Physics into Machine Learning for Production Prediction from Unconventional Reservoirs: A Brief Review of the Gray-Box Approach. SPE Reservoir Evaluation and Engineering, 2021, 24, 847-858.	1.8	19
6	Scale-dependent permeability and formation factor in porous media: Applications of percolation theory. Fuel, 2021, 301, 121090.	6.4	20
7	An efficient laboratory method to measure the combined effects of Knudsen diffusion and mechanical deformation on shale permeability. Journal of Contaminant Hydrology, 2020, 232, 103652.	3.3	7
8	Matrix permeability measurement from fractured unconventional source-rock samples: Method and application. Journal of Contaminant Hydrology, 2020, 233, 103663.	3.3	9
9	Addendum to "Liu H. H. (2011). A conductivity relationship for steadyâ€state unsaturated flow processes under optimal flow conditions. Vadose Zone Journal , 10 (2), 736–740â€: Vadose Zone Journal, 2020, 19, e20067.	2.2	0
10	Coupling the Dual-Porosity Theory with a Modified Hoek-Brown Criterion on Wellbore Stability Analysis. , 2020, , .		0
11	Microscopic Scale Experimental Investigation into Fracturing Fluid Uptake Pathways for Tight Carbonate Source Rocks. , 2020, , .		0
12	An Improved Hydraulic Fracturing Treatment for Stimulating Tight Organic-Rich Carbonate Reservoirs. SPE Journal, 2020, 25, 632-645.	3.1	6
13	Modeling gas relative permeability in shales and tight porous rocks. Fuel, 2020, 272, 117686.	6.4	25
14	An Innovative Laboratory Method To Measure Pore-Pressure-Dependent Gas Permeability of Shale: Theory and Numerical Experiments. SPE Reservoir Evaluation and Engineering, 2019, 22, 326-335.	1.8	1
15	Multiscale Experimental Studies on Interactions Between Aqueous-Based Fracturing Fluids and Tight Organic-Rich Carbonate Source Rocks. SPE Reservoir Evaluation and Engineering, 2019, 22, 402-417.	1.8	2
16	Clarifying pore diameter, pore width, and their relationship through pressure measurements: A critical study. Marine and Petroleum Geology, 2019, 107, 142-148.	3.3	16
17	Nuclear magnetic resonance measurement of methane diffusion in organic-rich shales. Fuel, 2019, 247, 160-163.	6.4	12
18	Shale gas transport in rock matrix: Diffusion in the presence of surface adsorption and capillary condensation. Journal of Natural Gas Science and Engineering, 2019, 66, 18-25.	4.4	8

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19	A criterion for evaluating the effect of shale-matrix dual-continuum flow on gas production. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2019, 5, 87-102.	2.9	10
20	Pressure pulse-decay tests in a dual-continuum medium: An improved technique to estimate flow parameters. Journal of Natural Gas Science and Engineering, 2019, 65, 16-24.	4.4	5
21	A GEOMETRICAL APERTURE–WIDTH RELATIONSHIP FOR ROCK FRACTURES. Fractals, 2019, 27, 1940002.	3.7	18
22	An Advanced Nano Permeameter: Transformation from Point by Point Method to the Direct Measurement of Permeability Pressure Function. , 2019, , .		0
23	Correction of source-rock permeability measurements owing to slip flow and Knudsen diffusion: a method and its evaluation. Petroleum Science, 2018, 15, 116-125.	4.9	12
24	Measurement of elastic properties in Brazilian disc test: solution derivation and numerical verification. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2018, 4, 63-77.	2.9	7
25	An Experimental Study on Interactions Between Imbibed Fracturing Fluid and Organic-Rich Tight Carbonate Source Rocks. SPE Journal, 2018, 23, 2133-2146.	3.1	4
26	Electromagnetic thermal stimulation of shale reservoirs for petroleum production. Journal of Natural Gas Science and Engineering, 2018, 59, 183-192.	4.4	27
27	A method for correcting low permeability laboratory measurements for leaks: Theory, methodology and algorithms. Journal of Natural Gas Science and Engineering, 2018, 56, 608-618.	4.4	3
28	On the relationship between effective permeability and stress for unconventional rocks: Analytical estimates from laboratory measurements. Journal of Natural Gas Science and Engineering, 2018, 56, 408-413.	4.4	7
29	Commemorating Dr. Gudmundur "Bo―Bodvarsson (1951–2006), a Leader of the Deep Unsaturated Flow and Transport Investigations. Water (Switzerland), 2018, 10, 18.	2.7	13
30	A numerical formulation with unified unilateral boundary condition for unsaturated flow problems in porous media. Acta Geotechnica, 2017, 12, 277-291.	5.7	12
31	Two-phase flow properties in aperture-based fractures under normal deformation conditions: Analytical approach and numerical simulation. Journal of Hydrology, 2017, 545, 72-87.	5.4	36
32	Inverse modeling of ground surface uplift and pressure with iTOUGH-PEST and TOUGH-FLAC: The case of CO2 injection at In Salah, Algeria. Computers and Geosciences, 2017, 108, 98-109.	4.2	33
33	Generalization of the Darcy-Buckingham Law: Optimality and Water Flow in Unsaturated Media. Theory and Applications of Transport in Porous Media, 2017, , 45-102.	0.4	1
34	Two-Part Hooke Model (TPHM): Theory, Validation and Applications. Theory and Applications of Transport in Porous Media, 2017, , 103-207.	0.4	0
35	Generalization of Darcy's Law: Non-Darcian Liquid Flow in Low-Permeability Media. Theory and Applications of Transport in Porous Media, 2017, , 1-43.	0.4	0
36	Final Remarks: An "Unfinished―Book. Theory and Applications of Transport in Porous Media, 2017, , 225-226.	0.4	0

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37	Experimental Investigation on Brazilian Tensile Strength of Organic-Rich Gas Shale. SPE Journal, 2017, 22, 148-161.	3.1	27
38	An Experimental Study on Interactions between Imbibed Fracturing Fluid and Organic-Rich Tight Carbonate Source Rocks. , 2017, , .		2
39	Porosity–permeability relationships in modeling salt precipitation during CO 2 sequestration: Review of conceptual models and implementation in numerical simulations. International Journal of Greenhouse Gas Control, 2016, 52, 24-31.	4.6	24
40	Textural and Mineralogical Control on Tensile Strength of Eagle Ford and Manco Shales Samples. , 2016, , .		2
41	Numerical prediction of the decline of the shale gas production rate with considering the geomechanical effects based on the two-part Hooke's model. Fuel, 2016, 185, 362-369.	6.4	30
42	Constitutive Relations for Reactive Transport Modeling: Effects of Chemical Reactions on Multi-phase Flow Properties. Transport in Porous Media, 2016, 114, 795-814.	2.6	10
43	Effect of Capillary Condensation on Gas Transport in Shale: A Pore-Scale Model Study. SPE Journal, 2016, 21, 601-612.	3.1	18
44	Pressure pulse-decay tests in a dual-continuum medium: Late-time behavior. Journal of Petroleum Science and Engineering, 2016, 147, 292-301.	4.2	15
45	A coupled twoâ€phase fluid flow and elastoplastic deformation model for unsaturated soils: theory, implementation, and application. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 1023-1058.	3.3	17
46	Unconventional Spontaneous Imbibition into Shale Matrix: Theory and a Methodology to Determine Relevant Parameters. Transport in Porous Media, 2016, 111, 41-57.	2.6	33
47	An Emergent Conductivity Relationship for Water Flow Based on Minimized Energy Dissipation. Geophysical Monograph Series, 2015, , 129-136.	0.1	0
48	Assessing Tensile Strength of Unconventional Tight Rocks Using Microwaving. , 2015, , .		3
49	On the impact of temperatures up to 200 °C in clay repositories with bentonite engineer barrier systems: A study with coupled thermal, hydrological, chemical, and mechanical modeling. Engineering Geology, 2015, 197, 278-295.	6.3	90
50	Modeling bacterial attenuation in on-site wastewater treatment systems using the active region model and column-scale data. Environmental Earth Sciences, 2015, 74, 4827-4837.	2.7	5
51	Two-phase flow properties of a horizontal fracture: The effect of aperture distribution. Advances in Water Resources, 2015, 76, 43-54.	3.8	52
52	EDZ formation and associated hydromechanical behaviour around ED-B tunnel: A numerical study based on a two-part Hooke's model (TPHM). KSCE Journal of Civil Engineering, 2015, 19, 318-331.	1.9	4
53	A theoretical derivation of the Hoek–Brown failure criterion for rock materials. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 361-366.	8.1	56
54	Radionuclide Transport Behavior in a Generic Geological Radioactive Waste Repository. Ground Water, 2015, 53, 440-451.	1.3	14

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55	Relationships between permeability, porosity and effective stress for low-permeability sedimentary rock. International Journal of Rock Mechanics and Minings Sciences, 2015, 78, 304-318.	5.8	134
56	A coupled stress–strain and hydraulic hysteresis model for unsaturated soils: Thermodynamic analysis and model evaluation. Computers and Geotechnics, 2015, 63, 159-170.	4.7	17
57	Modeling of Coupled Thermo-Hydro-Mechanical Processes with Links to Geochemistry Associated with Bentonite-Backfilled Repository Tunnels in Clay Formations. Rock Mechanics and Rock Engineering, 2014, 47, 167-186.	5.4	92
58	A constitutive model for unsaturated soils with consideration of inter-particle bonding. Computers and Geotechnics, 2014, 59, 127-144.	4.7	44
59	The use of two-part Hooke's model (TPHM) to model the mine-by test at Mont Terri Site, Switzerland. Computers and Geotechnics, 2014, 58, 28-46.	4.7	12
60	Model evaluation of geochemically induced swelling/shrinkage in argillaceous formations for nuclear waste disposal. Applied Clay Science, 2014, 97-98, 24-32.	5.2	14
61	Non-Darcian flow in low-permeability media: key issues related to geological disposal of high-level nuclear waste in shale formations. Hydrogeology Journal, 2014, 22, 1525-1534.	2.1	30
62	A thermodynamic hypothesis regarding optimality principles for flow processes in geosystems. Science Bulletin, 2014, 59, 1880-1884.	1.7	5
63	Site characterization of the Yucca Mountain disposal system for spent nuclear fuel and high-level radioactive waste. Reliability Engineering and System Safety, 2014, 122, 32-52.	8.9	26
64	Equivalent diffusion coefficient of clay-rich geological formations: comparison between numerical and analytical estimates. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1081-1091.	4.0	7
65	A Fractal-Based Model for Fracture Deformation Under Shearing and Compression. Rock Mechanics and Rock Engineering, 2013, 46, 1539-1549.	5.4	13
66	Coupled Hydro-mechanical Processes Associated with Multiphase Flow in a Dual-continuum System: Formulations and an Application. Rock Mechanics and Rock Engineering, 2013, 46, 1103-1112.	5.4	18
67	A water retention curve and unsaturated hydraulic conductivity model for deformable soils: consideration of the change in pore-size distribution. Geotechnique, 2013, 63, 1389-1405.	4.0	114
68	A permeability-change relationship in the dryout zone for CO2 injection into saline aquifers. International Journal of Greenhouse Gas Control, 2013, 15, 42-47.	4.6	29
69	Normal-stress dependence of fracture hydraulic properties including two-phase flow properties. Hydrogeology Journal, 2013, 21, 371-382.	2.1	68
70	On the relationship between water flux and hydraulic gradient for unsaturated and saturated clay. Journal of Hydrology, 2012, 475, 242-247.	5.4	56
71	An Elastic Stress–Strain Relationship for Porous Rock Under Anisotropic Stress Conditions. Rock Mechanics and Rock Engineering, 2012, 45, 389-399.	5.4	27
72	Unsaturated properties for non-Darcian water flow in clay. Journal of Hydrology, 2012, 430-431, 173-178.	5.4	29

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73	A note on equations for steady-state optimal landscapes. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	10
74	A Conductivity Relationship for Steady‣tate Unsaturated Flow Processes under Optimal Flow Conditions. Vadose Zone Journal, 2011, 10, 736-740.	2.2	17
75	Long term infiltration and tracer transport in fractured rocks: Field observations and model analyses. Journal of Hydrology, 2011, 396, 33-48.	5.4	12
76	lmpact of climate change on groundwater recharge in dry areas: An ecohydrology approach. Journal of Hydrology, 2011, 407, 175-183.	5.4	40
77	Analytical solutions of tracer transport in fractured rock associated with precipitation-dissolution reactions. Hydrogeology Journal, 2011, 19, 1151-1160.	2.1	14
78	Modified Generalized Likelihood Uncertainty Estimation (GLUE) Methodology for Considering the Subjectivity of Likelihood Measure Selection. Journal of Hydrologic Engineering - ASCE, 2011, 16, 558-561.	1.9	6
79	Comment on "Sensitivity of the active fracture model parameter to fracture network orientation and injection scenarios†paper published in Hydrogeology Journal (2009) 17:1347–1358, by Hakan Başağaoğl Sauro Succi, Chandrika Manepally, Randall Fedors, Danielle Y. Wyrick. Hydrogeology Journal, 2010, 18, 535-537.	u. 2.1	2
80	A New Coal-Permeability Model: Internal Swelling Stress and Fracture–Matrix Interaction. Transport in Porous Media, 2010, 82, 157-171.	2.6	320
81	A new particleâ€ŧracking approach to simulating transport in heterogeneous fractured porous media. Water Resources Research, 2010, 46, .	4.2	30
82	On the relationship between stress and elastic strain for porous and fractured rock. International Journal of Rock Mechanics and Minings Sciences, 2009, 46, 289-296.	5.8	189
83	Behavior of the mass transfer coefficient during the MADEâ€⊋ experiment: New insights. Water Resources Research, 2008, 44, .	4.2	31
84	Preface: Recent Advances in Modeling Multiphase Flow and Transport with the TOUGH Family of Codes. Vadose Zone Journal, 2008, 7, 284-286.	2.2	3
85	Field-scale effective matrix diffusion coefficient for fractured rock: Results from literature survey. Journal of Contaminant Hydrology, 2007, 93, 161-187.	3.3	98
86	Effects of diffusive property heterogeneity on effective matrix diffusion coefficient for fractured rock. Water Resources Research, 2006, 42, .	4.2	15
87	Estimating Large cale Fracture Permeability of Unsaturated Rock Using Barometric Pressure Data. Vadose Zone Journal, 2006, 5, 1129-1142.	2.2	13
88	Evidence of Multi-Process Matrix Diffusion in a Single Fracture from a Field Tracer Test. Transport in Porous Media, 2006, 63, 473-487.	2.6	30
89	Temperature dependence of large-scale water-retention curves: a case study. Hydrogeology Journal, 2006, 14, 1403-1408.	2.1	3
90	Analysis of a mesoscale infiltration and water seepage test in unsaturated fractured rock: Spatial variabilities and discrete fracture patterns. Journal of Contaminant Hydrology, 2006, 87, 96-122.	3.3	24

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91	Flow Focusing in Unsaturated Fracture Networks: A Numerical Investigation. Vadose Zone Journal, 2004, 3, 624-633.	2.2	12
92	Upscaling of Normal Stress-Permeability Relationships for Fracture Networks Obeying Fractional Levy Motion. Elsevier Geo-Engineering Book Series, 2004, , 263-268.	0.0	3
93	A triple-continuum approach for modeling flow and transport processes in fractured rock. Journal of Contaminant Hydrology, 2004, 73, 145-179.	3.3	158
94	A Corrected and Generalized Successive Random Additions Algorithm for Simulating Fractional Levy Motions. Mathematical Geosciences, 2004, 36, 361-378.	0.9	54
95	Unsaturated flow and transport through a fault embedded in fractured welded tuff. Water Resources Research, 2004, 40, .	4.2	14
96	Flow Focusing in Unsaturated Fracture Networks: A Numerical Investigation. Vadose Zone Journal, 2004, 3, 624-633.	2.2	5
97	An efficient, three-dimensional, anisotropic, fractional Brownian motion and truncated fractional Levy motion simulation algorithm based on successive random additions. Computers and Geosciences, 2003, 29, 15-25.	4.2	54
98	Flow and transport in unsaturated fractured rock: effects of multiscale heterogeneity of hydrogeologic properties. Journal of Contaminant Hydrology, 2003, 60, 1-30.	3.3	42
99	Modeling flow and transport in unsaturated fractured rock: an evaluation of the continuum approach. Journal of Contaminant Hydrology, 2003, 62-63, 173-188.	3.3	58
100	Effects of dry fractures on matrix diffusion in unsaturated fractured rocks. Geophysical Research Letters, 2003, 30, .	4.0	7
101	The Active Fracture Model: Its Relation to Fractal Flow Patterns and an Evaluation Using Field Observations. Vadose Zone Journal, 2003, 2, 259-269.	2.2	13
102	Determination of Unsaturated Flow Paths in a 2-D Randomly Distributed Fracture Network. , 2003, , 131.		0
103	The Active Fracture Model. Vadose Zone Journal, 2003, 2, 259.	2.2	4
104	The Active Fracture Model: Its Relation to Fractal Flow Patterns and an Evaluation Using Field Observations. Vadose Zone Journal, 2003, 2, 259-269.	2.2	15
105	Constitutive relations for unsaturated flow in a fracture network. Journal of Hydrology, 2001, 252, 116-125.	5.4	58
106	An active fracture model for unsaturated flow and transport in fractured rocks. Water Resources Research, 1998, 34, 2633-2646.	4.2	157
107	Fractional Brownian motion and fractional Gaussian noise in subsurface hydrology: A review, presentation of fundamental properties, and extensions. Water Resources Research, 1997, 33, 2273-2286.	4.2	194
108	Multifractal analyses of hydraulic conductivity distributions. Water Resources Research, 1997, 33, 2483-2488.	4.2	102

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109	Comment on "Evidence for non-Gaussian scaling behavior in heterogeneous sedimentary formations― by Scott Painter. Water Resources Research, 1997, 33, 907-908.	4.2	54
110	Reconciliation between Measured and Theoretical Temperature Effects on Soil Water Retention Curves. Soil Science Society of America Journal, 1993, 57, 1202-1207.	2.2	36