Derek Elsworth

List of Publications by Year
in descending order

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Version: 2024-02-01

443 papers	18,387 citations	11235 73 h-index	28425 109 g-index
451 all docs	451 docs citations	451 times ranked	8820 citing authors

#	Article	IF	Citations
1	Experimental Investigation of Elastodynamic Nonlinear Response of Dry Intact, Fractured and Saturated Rock. Rock Mechanics and Rock Engineering, 2022, 55, 2665-2678.	2.6	3
2	Long-term effect of desorption-induced matrix shrinkage on the evolution of coal permeability during coalbed methane production. Journal of Petroleum Science and Engineering, 2022, 208, 109378.	2.1	11
3	Shale gas production from reservoirs with hierarchical multiscale structural heterogeneities. Journal of Petroleum Science and Engineering, 2022, 208, 109380.	2.1	14
4	Re-evaluating adsorbed and free methane content in coal and its ad- and desorption processes analysis. Chemical Engineering Journal, 2022, 428, 131946.	6.6	58
5	Immiscible/Near-Miscible relative permeability for confined fluids at high-pressure and high-temperature for a fractal reservoir. Fuel, 2022, 310, 122389.	3.4	6
6	Influence of water on elastic deformation of coal and its control on permeability in coalbed methane production. Journal of Petroleum Science and Engineering, 2022, 208, 109603.	2.1	8
7	Hydraulic fracture propagation and interaction with natural fractures by coupled hydro-mechanical modeling. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	4
8	Compressive Strength of MICP-Treated Silica Sand with Different Particle Morphologies and Gradings. Geomicrobiology Journal, 2022, 39, 148-154.	1.0	18
9	Contribution of thermal expansion on gas adsorption to coal sorption-induced swelling. Chemical Engineering Journal, 2022, 432, 134427.	6.6	19
10	Micro-fractures in coal induced by high pressure CO2 gas fracturing. Fuel, 2022, 311, 122148.	3.4	11
11	A transient dual porosity/permeability model for coal multiphysics. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	5
12	Conductivity Evolution in Propped Fractures During Reservoir Drawdown. Rock Mechanics and Rock Engineering, 2022, 55, 3583-3597.	2.6	2
13	Frictional Stability of Metamorphic Epidote in Granitoid Faults Under Hydrothermal Conditions and Implications for Injectionâ€Induced Seismicity. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	8
14	Sorptive permeability loss determined from strain-based analysis of tightly constrained experiments on shale. Journal of Petroleum Science and Engineering, 2022, 214, 110502.	2.1	2
15	A fully coupled multidomain and multiphysics model considering stimulation patterns and thermal effects for evaluation of coalbed methane (CBM) extraction. Journal of Petroleum Science and Engineering, 2022, 214, 110506.	2.1	9
16	How Does CO₂ Adsorption Alter Coal Wettability? Implications for CO₂ Geoâ€Sequestration. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	5
17	Permeable rock matrix sealed with microbially-induced calcium carbonate precipitation: Evolutions of mechanical behaviors and associated microstructure. Engineering Geology, 2022, 304, 106697.	2.9	15
18	Influence of Well Types on Optimizing the Co-production of Gas from Coal and Tight Formations. Energy & Fuels, 2022, 36, 6736-6754.	2.5	5

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19	Water Liberating/Sealing effects on shale gas Extraction: A fully coupled multidomain and multiphysics model. Fuel, 2022, 325, 124953.	3.4	7
20	Fractal Characteristics of Drilling Particle Size Distribution of Shale: A Laboratory Scale Investigation. Rock Mechanics and Rock Engineering, 2022, 55, 5307-5319.	2.6	0
21	A critical review of coal permeability models. Fuel, 2022, 326, 125124.	3.4	15
22	Near-source characteristics of two-phase gasâ€“solid outbursts in roadways. International Journal of Coal Science and Technology, 2021, 8, 685-696.	2.7	22
23	Three-Dimensional Numerical Modeling of Grain-Scale Mechanical Behavior of Sandstone Containing an Inclined Rough Joint. Rock Mechanics and Rock Engineering, 2021, 54, 905-919.	2.6	13
24	Numerical Simulation of An In-situ Fluid Injection Experiment into a Fault Using Coupled X-FEM Analysis. Rock Mechanics and Rock Engineering, 2021, 54, 1027-1053.	2.6	3
25	Shale gas reservoir modeling and production evaluation considering complex gas transport mechanisms and dispersed distribution of kerogen. Petroleum Science, 2021, 18, 195-218.	2.4	27
26	The influence of particle morphology on microbially induced CaCO₃ clogging in granular media. Marine Georesources and Geotechnology, 2021, 39, 74-81.	1.2	25
27	Interpretation of Gas/Water Relative Permeability of Coal Using the Hybrid Bayesian-Assisted History Matching: New Insights. Energies, 2021, 14, 626.	1.6	8
28	Discrete fracture matrix modelling of fully-coupled CO2 flow â€“ Deformation processes in fractured coal. International Journal of Rock Mechanics and Minings Sciences, 2021, 138, 104644.	2.6	8
29	Constraining maximum event magnitude during injection-triggered seismicity. Nature Communications, 2021, 12, 1528.	5.8	20
30	A model for focused-beam microwave heating on rock fracturing. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2021, 7, 1.	1.3	5
31	Impact of equilibration time lag between matrix and fractures on the evolution of coal permeability. Fuel, 2021, 290, 120029.	3.4	18
32	Experimental Observations of Gas-sorption-Induced Strain Gradients and their Implications on Permeability Evolution of Shale. Rock Mechanics and Rock Engineering, 2021, 54, 3927-3943.	2.6	10
33	Stress perturbation caused by multistage hydraulic fracturing: Implications for deep fault reactivation. International Journal of Rock Mechanics and Minings Sciences, 2021, 141, 104704.	2.6	13
34	Mechanisms of tripartite permeability evolution for supercritical CO2 in propped shale fractures. Fuel, 2021, 292, 120188.	3.4	10
35	Rapid gas desorption and its impact on gas-coal outbursts as two-phase flows. Chemical Engineering Research and Design, 2021, 150, 478-488.	2.7	10
36	The Potential for Lowâ€Grade Metamorphism to Facilitate Fault Instability in a Geothermal Reservoir. Geophysical Research Letters, 2021, 48, e2021GL093552.	1.5	16

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37	Hydro-mechanical-chemical modeling of sub-nanopore capillary-confinement on CO2-CCUS-EOR. Energy, 2021, 225, 120203.	4.5	20
38	Ridgecrest aftershocks at Coso suppressed by thermal destressing. Nature, 2021, 595, 70-74.	13.7	24
39	Nonlinear elastodynamic behavior of intact and fractured rock under in-situ stress and saturation conditions. Journal of the Mechanics and Physics of Solids, 2021, 153, 104491.	2.3	8
40	Effect of adsorption-induced matrix swelling on coal permeability evolution of micro-fracture with the real geometry. Petroleum Science, 2021, 18, 1143-1152.	2.4	17
41	Controlling Induced Earthquake Magnitude by Cycled Fluid Injection. Geophysical Research Letters, 2021, 48, e2021GL092885.	1.5	11
42	Experimental study on the feasibility of microwave heating fracturing for enhanced shale gas recovery. Journal of Natural Gas Science and Engineering, 2021, 94, 104073.	2.1	14
43	Inverted U-shaped permeability enhancement due to thermally induced desorption determined from strain-based analysis of experiments on shale at constant pore pressure. Fuel, 2021, 302, 121178.	3.4	4
44	Review of fundamental studies of CO2 fracturing: Fracture propagation, propping and permeating. Journal of Petroleum Science and Engineering, 2021, 205, 108823.	2.1	19
45	Microstructure characterization of kerogen in mature shale: Molecular investigation of micropore development. Journal of Natural Gas Science and Engineering, 2021, 95, 104239.	2.1	11
46	Gas permeability and fracture compressibility for proppant-supported shale fractures under high stress. Journal of Natural Gas Science and Engineering, 2021, 95, 104157.	2.1	9
47	Down-dip circulation at the united downs deep geothermal power project maximizes heat recovery and minimizes seismicity. Geothermics, 2021, 96, 102204.	1.5	8
48	Numerical simulation of mixed aseismic/seismic fault-slip induced by fluid injection using coupled X-FEM analysis. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104871.	2.6	6
49	Effective application of proppants during the hydraulic fracturing of coal seam gas reservoirs: Implications from laboratory testings of propped and unpropped coal fractures. Fuel, 2021, 304, 121394.	3.4	22
50	The use of supercritical CO2 in deep geothermal reservoirs as a working fluid: Insights from coupled THMC modeling. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104872.	2.6	14
51	A critical analysis of shale laboratory permeability evolution data. Energy, 2021, 236, 121405.	4.5	14
52	Monitoring oil displacement and CO2 trapping in low-permeability media using NMR: A comparison of miscible and immiscible flooding. Fuel, 2021, 305, 121606.	3.4	30
53	Advances in in-situ modï¬ed mining by ï¬‚uidization and in unconventional geomechanics. Advances in Geo-Energy Research, 2021, 5, 1-4.	3.1	4
54	Imaging Elastodynamic and Hydraulic Properties of In Situ Fractured Rock: An Experimental Investigation Exploring Effects of Dynamic Stressing and Shearing. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021521.	1.4	2

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55	Creep Rupture and Permeability Evolution in High Temperature Heat-Treated Sandstone Containing Pre-Existing Twin Flaws. Energies, 2021, 14, 6362.	1.6	7
56	An effective dual-medium approach to simulate microwave heating in strongly heterogeneous rocks. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2021, 7, 1.	1.3	4
57	New advances in unconventional resources: accumulation and productionâ€"introduction to the special issue. Frontiers of Earth Science, 2021, 15, 185-188.	0.9	0
58	A grain texture model to investigate effects of grain shape and orientation on macro-mechanical behavior of crystalline rock. International Journal of Rock Mechanics and Minings Sciences, 2021, 148, 104971.	2.6	14
59	Laboratory Investigation of Impact of Slickwater Composition on Multiphase Permeability Evolution in Tight Sandstones. SPE Production and Operations, 2021, , 1-15.	0.4	1
60	Organic Geochemical and Petrographic Characteristics of the Coal Measure Source Rocks of Pinghu Formation in the Xihu Sag of the East China Sea Shelf Basin: Implications for Coal Measure Gas Potential. Acta Geologica Sinica, 2020, 94, 364-375.	0.8	17
61	Radial Permeability Measurements for Shale Using Variable Pressure Gradients. Acta Geologica Sinica, 2020, 94, 269-279.	0.8	5
62	Determination of the critical flow pore diameter of shale caprock. Marine and Petroleum Geology, 2020, 112, 104042.	1.5	11
63	Anisotropy of acoustic emission in coal under the uniaxial loading condition. Chaos, Solitons and Fractals, 2020, 130, 109465.	2.5	20
64	An Experimental Study of Effect of High Temperature on the Permeability Evolution and Failure Response of Granite Under Triaxial Compression. Rock Mechanics and Rock Engineering, 2020, 53, 4403-4427.	2.6	54
65	Effect of mineralogy on friction-dilation relationships for simulated faults: Implications for permeability evolution in caprock faults. Geoscience Frontiers, 2020, 11, 439-450.	4.3	41
66	Statistical Analysis of the CapabilitiesÂof Various Pattern Recognition Algorithms for FractureÂDetection Based on Monitoring Drilling Parameters. Rock Mechanics and Rock Engineering, 2020, 53, 2265-2278.	2.6	8
67	Slip Velocity Dependence of Friction-Permeability Response of Shale Fractures. Rock Mechanics and Rock Engineering, 2020, 53, 2109-2121.	2.6	22
68	Dual-damage constitutive model to define thermal damage in rock. International Journal of Rock Mechanics and Minings Sciences, 2020, 126, 104185.	2.6	56
69	Insights from electron backscatter diffraction into the origin of fibrous calcite veins in organic-rich shale from lower Es3 to upper Es4, Jiyang Depression, China. Marine and Petroleum Geology, 2020, 113, 104131.	1.5	6
70	Impact of shale matrix mechanical interactions on gas transport during production. Journal of Petroleum Science and Engineering, 2020, 184, 106524.	2.1	25
71	Analytical solutions for multi-stage fractured shale gas reservoirs with damaged fractures and stimulated reservoir volumes. Journal of Petroleum Science and Engineering, 2020, 187, 106686.	2.1	20
72	Dynamic Stressing of Naturally Fractured Rocks: On the Relation Between Transient Changes in Permeability and Elastic Wave Velocity. Geophysical Research Letters, 2020, 47, e2019GL083557.	1.5	19

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73	Failure Behavior of Hot-Dry-Rock (HDR) in Enhanced Geothermal Systems: Macro to Micro Scale Effects. Geofluids, 2020, 2020, 1-13.	0.3	3
74	Permeability evolution and crack characteristics in granite under treatment at high temperature. International Journal of Rock Mechanics and Minings Sciences, 2020, 134, 104461.	2.6	35
75	A novel pore size classification method of coals: Investigation based on NMR relaxation. Journal of Natural Gas Science and Engineering, 2020, 81, 103466.	2.1	27
76	Microbially Induced Calcium Carbonate Plugging for Enhanced Oil Recovery. Geofluids, 2020, 2020, 1-10.	0.3	8
77	Evaluation and modeling of water vapor sorption and transport in nanoporous shale. International Journal of Coal Geology, 2020, 228, 103553.	1.9	32
78	Coupled multiscale-modeling of microwave-heating-induced fracturing in shales. International Journal of Rock Mechanics and Minings Sciences, 2020, 136, 104520.	2.6	18
79	Friction of Longmaxi Shale Gouges and Implications for Seismicity During Hydraulic Fracturing. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019885.	1.4	33
80	Temperature and Fluid Pressurization Effects on Frictional Stability of Shale Faults Reactivated by Hydraulic Fracturing in the Changning Block, Southwest China. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019584.	1.4	16
81	The influence of CO2-transformed iron oxide grain coatings on the frictional stability and transport properties of simulated faults in sandstones. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	0
82	Effects of Heterogeneous Local Swelling and Multiple Pore Types on Coal and Shale Permeability Evolution. , 2020, , .		4
83	A New Coupled Geomechanical-Chemical Model for CO2 Foam Flooding and Storage in Tight Reservoir. , 2020, , .		0
84	The influence of fault reactivation on injection-induced dynamic triggering of permeability evolution. Geophysical Journal International, 2020, 223, 1481-1496.	1.0	5
85	Continuous Compaction and Permeability Evolution in Longwall Gob Materials. Rock Mechanics and Rock Engineering, 2020, 53, 5489-5510.	2.6	16
86	Does Lowâ€Viscosity Fracturing Fluid Always Create Complex Fractures?. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020332.	1.4	9
87	Evolution of Production and Transport Characteristics of Steeply-Dipping Ultra-Thick Coalbed Methane Reservoirs. Energies, 2020, 13, 5081.	1.6	5
88	Pore-Scale Water Vapor Condensation Behaviors in Shales: An Experimental Study. Transport in Porous Media, 2020, 135, 713-734.	1.2	15
89	A new approach to evaluate the particle size distribution from rock drilling: double peak characteristic analysis. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	2
90	Effect of temperature and confining pressure on the evolution of hydraulic and heat transfer properties of geothermal fracture in granite. Applied Energy, 2020, 272, 115290.	5.1	46

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91	Swelling and embedment induced by sub- and super-critical-CO2 on the permeability of propped fractures in shale. International Journal of Coal Geology, 2020, 225, 103496.	1.9	12
92	Dynamic Fluid Interactions during CO₂-Enhanced Coalbed Methane and CO₂ Sequestration in Coal Seams. Part 1: CO₂â€“CH₄ Interactions. Energy & Fuels, 2020, 34, 8274-8282.	2.5	20
93	Impact of Nitrogen Injection on Pore Structure and Adsorption Capacity of High Volatility Bituminous Coal. Energy & Fuels, 2020, 34, 8216-8226.	2.5	6
94	A two-stage step-wise framework for fast optimization of well placement in coalbed methane reservoirs. International Journal of Coal Geology, 2020, 225, 103479.	1.9	15
95	A fully coupled multidomain and multiphysics model for evaluation of shale gas extraction. Fuel, 2020, 278, 118214.	3.4	73
96	Coalbed methane reservoir fracture evaluation through the novel passive microseismic survey and its implications on permeable and gas production. Journal of Natural Gas Science and Engineering, 2020, 76, 103181.	2.1	21
97	A NEW FRACTAL TEMPORAL CONDUCTIVITY MODEL FOR PROPPED FRACTURE AND ITS APPLICATION IN TIGHT RESERVOIRS. Fractals, 2020, 28, 2050074.	1.8	5
98	Fracture penetration and proppant transport in gas- and foam-fracturing. Journal of Natural Gas Science and Engineering, 2020, 77, 103269.	2.1	24
99	Reach and geometry of dynamic gas-driven fractures. International Journal of Rock Mechanics and Minings Sciences, 2020, 129, 104287.	2.6	14
100	Evolution of Shale Permeability under the Influence of Gas Diffusion from the Fracture Wall into the Matrix. Energy & Fuels, 2020, 34, 4393-4406.	2.5	29
101	Vertical heterogeneity of permeability and gas content of ultra-high-thickness coalbed methane reservoirs in the southern margin of the Junggar Basin and its influence on gas production. Journal of Natural Gas Science and Engineering, 2020, 81, 103455.	2.1	14
102	Coupled hydro-mechanical evolution of fracture permeability in sand injectite intrusions. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 742-751.	3.7	4
103	Proppant embedment in coal and shale: Impacts of stress hardening and sorption. International Journal of Coal Geology, 2020, 227, 103545.	1.9	6
104	Dynamic fluid interactions during CO2-ECBM and CO2 sequestration in coal seams. Part 2: CO2-H2O wettability. Fuel, 2020, 279, 118560.	3.4	32
105	Airflow disturbance induced by coal mine outburst shock waves: A case study of a gas outburst disaster in China. International Journal of Rock Mechanics and Minings Sciences, 2020, 128, 104262.	2.6	31
106	Multidomain Two-Phase Flow Model to Study the Impacts of Hydraulic Fracturing on Shale Gas Production. Energy & Fuels, 2020, 34, 4273-4288.	2.5	34
107	Experimental investigation on dynamic strength and energy dissipation characteristics of gas outburstâ€prone coal. Energy Science and Engineering, 2020, 8, 1015-1028.	1.9	100
108	Evolution and analysis of gas sorption-induced coal fracture strain data. Petroleum Science, 2020, 17, 376-392.	2.4	12

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109	High-resolution characterization of nanoparticle transport in heterogeneous porous media via low-field nuclear magnetic resonance. Journal of Hydrology, 2020, 583, 124558.	2.3	2
110	Effect of slick-water fracturing fluid on the frictional properties of shale reservoir rock gouges. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	1.3	6
111	Experimental observations of heterogeneous strains inside a dual porosity sample under the influence of gas-sorption: A case study of fractured coal. International Journal of Coal Geology, 2020, 223, 103450.	1.9	26
112	Controlling effects of differential swelling index on evolution of coal permeability. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 461-472.	3.7	36
113	The influence of the structural distribution and hardness of mineral phases on the size and shape of rock drilling particles. Marine Georesources and Geotechnology, 2020, 38, 511-517.	1.2	4
114	Predicting fugitive gas emissions from gob-to-face in longwall coal mines: Coupled analytical and numerical modeling. International Journal of Heat and Mass Transfer, 2020, 150, 119392.	2.5	28
115	Influence of fracture roughness on shear strength, slip stability and permeability: A mechanistic analysis by three-dimensional digital rock modeling. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 720-731.	3.7	28
116	Non-monotonic precursory signals to multi-scale catastrophic failures. International Journal of Fracture, 2020, 226, 233-242.	1.1	3
117	Water Vapor Sorption Properties of Illinois Shales Under Dynamic Water Vapor Conditions: Experimentation and Modeling. Water Resources Research, 2019, 55, 7212-7228.	1.7	71
118	Influencing factors and fracability of lacustrine shale oil reservoirs. Marine and Petroleum Geology, 2019, 110, 463-471.	1.5	20
119	CO₂/CH₄ Competitive Adsorption in Shale: Implications for Enhancement in Gas Production and Reduction in Carbon Emissions. Environmental Science & Technology, 2019, 53, 9328-9336.	4.6	78
120	A new apparatus for the concurrent measurement of friction and permeability evolution in fault gouge. International Journal of Rock Mechanics and Minings Sciences, 2019, 121, 104046.	2.6	4
121	Preliminary study on the feasibility of co-exploitation of coal and uranium. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104098.	2.6	29
122	Long-Term Evolution of Coal Permeability Under Effective Stresses Gap Between Matrix and Fracture During CO2 Injection. Transport in Porous Media, 2019, 130, 969-983.	1.2	24
123	The effects of mineral distribution, pore geometry, and pore density on permeability evolution in gas shales. Fuel, 2019, 257, 116005.	3.4	22
124	Fracture evolution in artificial bedded rocks containing a structural flaw under uniaxial compression. Engineering Geology, 2019, 250, 130-141.	2.9	42
125	The Role of Rock Mechanics in the 21st Century. Springer Series in Geomechanics and Geoengineering, 2019, , 319-357.	0.0	1
126	A strain based approach to calculate disparities in pore structure between shale basins during permeability evolution. Journal of Natural Gas Science and Engineering, 2019, 68, 102893.	2.1	11

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127	W-shaped permeability evolution of coal with supercritical CO2 phase transition. International Journal of Coal Geology, 2019, 211, 103221.	1.9	22
128	Reassessment of coal permeability evolution using steady-state flow methods: The role of flow regime transition. International Journal of Coal Geology, 2019, 211, 103210.	1.9	66
129	Modelling and optimization of enhanced coalbed methane recovery using CO2/N2 mixtures. Fuel, 2019, 253, 1114-1129.	3.4	146
130	Coupled Thermo-Hydro-Mechanical-Chemical Modeling of Permeability Evolution in a CO₂-Circulated Geothermal Reservoir. Geofluids, 2019, 2019, 1-15.	0.3	19
131	Relationships between mechanical and transport properties in Marcellus shale. International Journal of Rock Mechanics and Minings Sciences, 2019, 119, 205-210.	2.6	8
132	Controls of CO2â€“N2 gas flood ratios on enhanced shale gas recovery and ultimate CO2 sequestration. Journal of Petroleum Science and Engineering, 2019, 179, 1037-1045.	2.1	41
133	Cyclic Permeability Evolution During Repose Then Reactivation of Fractures and Faults. Journal of Geophysical Research: Solid Earth, 2019, 124, 4492-4506.	1.4	18
134	Diagenetic sequences of continuously deposited tight sandstones in various environments: A case study from upper Paleozoic sandstones in the Linxing area, eastern Ordos basin, China. AAPG Bulletin, 2019, 103, 2757-2783.	0.7	54
135	Multiscale modeling of shock wave propagation induced by coal and gas outbursts. Chemical Engineering Research and Design, 2019, 125, 164-171.	2.7	7
136	Heat Transfer in Enhanced Geothermal Systems: Thermal-Hydro-Mechanical Coupled Modeling. , 2019, , 201-215.		0
137	The Role of Mineral Composition on the Frictional and Stability Properties of Powdered Reservoir Rocks. Journal of Geophysical Research: Solid Earth, 2019, 124, 1480-1497.	1.4	30
138	Thermo-hydro-mechanical-chemical couplings controlling CH4 production and CO2 sequestration in enhanced coalbed methane recovery. Energy, 2019, 173, 1054-1077.	4.5	199
139	A Dynamic Fractal Permeability Model for Heterogeneous Coalbed Reservoir Considering Multiphysics and Flow Regimes. , 2019, , .		3
140	Permeability Enhancement in Gas Shale Due to Nitrogen Flooding. , 2019, , .		0
141	Mechanistic Analysis of Shale Permeability Evolution Data. , 2019, , .		2
142	Collapse of Reacted Fracture Surface Decreases Permeability and Frictional Strength. Journal of Geophysical Research: Solid Earth, 2019, 124, 12799-12811.	1.4	15
143	The transition from steady frictional sliding to inertia-dominated instability with rate and state friction. Journal of the Mechanics and Physics of Solids, 2019, 122, 116-125.	2.3	18
144	Effect of coal maturity on CO2-based hydraulic fracturing process in coal seam gas reservoirs. Fuel, 2019, 236, 179-189.	3.4	51

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145	Influence of gas adsorption induced non-uniform deformation on the evolution of coal permeability. International Journal of Rock Mechanics and Minings Sciences, 2019, 114, 71-78.	2.6	51
146	Morphologic variation of an evolving dome controlled by the extrusion of finite yield strength magma. Journal of Volcanology and Geothermal Research, 2019, 370, 51-64.	0.8	7
147	Micro-scale investigation on coupling of gas diffusion and mechanical deformation of shale. Journal of Petroleum Science and Engineering, 2019, 175, 961-970.	2.1	36
148	Ensemble Shear Strength, Stability, and Permeability of Mixed Mineralogy Fault Gouge Recovered From 3D Granular Models. Journal of Geophysical Research: Solid Earth, 2019, 124, 425-441.	1.4	7
149	Petrophysical Evaluation of Shale Gas Reservoirs: A Field Case Study of Marcellus Shale. , 2019, , .		4
150	Influence of conduit flow mechanics on magma rheology and the growth style of lava domes. Geophysical Journal International, 2018, 213, 1768-1784.	1.0	12
151	Application of Composite Indices for Improving Joint Detection Capabilities of Instrumented Roof Bolt Drills in Underground Mining and Construction. Rock Mechanics and Rock Engineering, 2018, 51, 849-860.	2.6	8
152	Poreâ€Scale Reconstruction and Simulation of Nonâ€Darcy Flow in Synthetic Porous Rocks. Journal of Geophysical Research: Solid Earth, 2018, 123, 2770-2786.	1.4	35
153	Experimental Investigation on the Mechanical Behavior of Victorian Brown Coal under Brine Saturation. Energy & Fuels, 2018, 32, 5799-5811.	2.5	22
154	Surface characteristics and permeability enhancement of shale fractures due to water and supercritical carbon dioxide fracturing. Journal of Petroleum Science and Engineering, 2018, 165, 284-297.	2.1	112
155	Failure response of composite rock-coal samples. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2018, 4, 175-192.	1.3	37
156	Coal permeability maps under the influence of multiple coupled processes. International Journal of Coal Geology, 2018, 187, 71-82.	1.9	70
157	The influence of Preslip Sealing on the Permeability Evolution of Fractures and Faults. Geophysical Research Letters, 2018, 45, 166-175.	1.5	54
158	A dynamic-pulse pseudo-pressure method to determine shale matrix permeability at representative reservoir conditions. International Journal of Coal Geology, 2018, 193, 61-72.	1.9	18
159	Evolution of permeability in sand injectite systems. International Journal of Rock Mechanics and Minings Sciences, 2018, 106, 176-189.	2.6	7
160	Microcrack-based geomechanical modeling of rock-gas interaction during supercritical CO2 fracturing. Journal of Petroleum Science and Engineering, 2018, 164, 91-102.	2.1	79
161	Role of proppant distribution on the evolution of hydraulic fracture conductivity. Journal of Petroleum Science and Engineering, 2018, 166, 249-262.	2.1	77
162	Controls of natural fractures on the texture of hydraulic fractures in rock. Journal of Petroleum Science and Engineering, 2018, 165, 616-626.	2.1	16

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163	A Gaussian Decomposition Method and its applications to the prediction of shale gas production. Fuel, 2018, 224, 331-347.	3.4	9
164	Why shale permeability changes under variable effective stresses: New insights. Fuel, 2018, 213, 55-71.	3.4	83
165	The Influence of Fracturing Fluids on Fracturing Processes: A Comparison Between Water, Oil and SC-CO2. Rock Mechanics and Rock Engineering, 2018, 51, 299-313.	2.6	110
166	Evolution of permeability during the process of shale gas extraction. Journal of Natural Gas Science and Engineering, 2018, 49, 94-109.	2.1	51
167	A suite of benchmark and challenge problems for enhanced geothermal systems. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2018, 4, 79-117.	1.3	33
168	Reservoir permeability mapping using microearthquake data. Geothermics, 2018, 72, 83-100.	1.5	20
169	Permeability Evolution of Pyrolytically-Fractured Oil Shale under In Situ Conditions. Energies, 2018, 11, 3033.	1.6	11
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