

Derek Elsworth

List of Publications by Year in descending order

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443
papers

18,387
citations

11235

73
h-index

28425

109
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451
all docs

451
docs citations

451
times ranked

8820
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismicity triggered by fluid injectionâ€“induced aseismic slip. <i>Science</i> , 2015, 348, 1224-1226.	6.0	516
2	How sorption-induced matrix deformation affects gas flow in coal seams: A new FE model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1226-1236.	2.6	413
3	Interactions of multiple processes during CBM extraction: A critical review. <i>International Journal of Coal Geology</i> , 2011, 87, 175-189.	1.9	359
4	Changes in permeability caused by transient stresses: Field observations, experiments, and mechanisms. <i>Reviews of Geophysics</i> , 2012, 50, .	9.0	340
5	Permeability evolution in fractured coal: The roles of fracture geometry and water-content. <i>International Journal of Coal Geology</i> , 2011, 87, 13-25.	1.9	284
6	Failure of volcano slopes. <i>Geotechnique</i> , 1997, 47, 1-31.	2.2	259
7	Permeability evolution during progressive deformation of intact coal and implications for instability in underground coal seams. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 58, 34-45.	2.6	201
8	Thermo-hydro-mechanical-chemical couplings controlling CH4 production and CO2 sequestration in enhanced coalbed methane recovery. <i>Energy</i> , 2019, 173, 1054-1077.	4.5	199
9	Dual poroelastic response of a coal seam to CO2 injection. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 668-678.	2.3	193
10	Multiporosity/multipermeability approach to the simulation of naturally fractured reservoirs. <i>Water Resources Research</i> , 1993, 29, 1621-1633.	1.7	188
11	A model of coalâ€“gas interaction under variable temperatures. <i>International Journal of Coal Geology</i> , 2011, 86, 213-221.	1.9	186
12	Thermalâ€“hydrologicâ€“mechanicalâ€“chemical processes in the evolution of engineered geothermal reservoirs. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 855-864.	2.6	185
13	Numerical simulation of thermal-hydrologic-mechanical-chemical processes in deformable, fractured porous media. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 842-854.	2.6	179
14	Permeability evolution in fractured coal â€” Combining triaxial confinement with X-ray computed tomography, acoustic emission and ultrasonic techniques. <i>International Journal of Coal Geology</i> , 2014, 122, 91-104.	1.9	178
15	Pore Structure Characterization of Coal by Synchrotron Small-Angle X-ray Scattering and Transmission Electron Microscopy. <i>Energy & Fuels</i> , 2014, 28, 3704-3711.	2.5	160
16	Evolution of coal permeability from stress-controlled to displacement-controlled swelling conditions. <i>Fuel</i> , 2011, 90, 2987-2997.	3.4	156
17	Evolution of permeability in a natural fracture: Significant role of pressure solution. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	152
18	Evolution of fracture permeability through fluidâ€“rock reaction under hydrothermal conditions. <i>Earth and Planetary Science Letters</i> , 2006, 244, 186-200.	1.8	148

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19	Shear-induced dilatancy of fluid-saturated faults: Experiment and theory. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	148
20	Modelling and optimization of enhanced coalbed methane recovery using CO ₂ /N ₂ mixtures. <i>Fuel</i> , 2019, 253, 1114-1129.	3.4	146
21	Effect of the effective stress coefficient and sorption-induced strain on the evolution of coal permeability: Experimental observations. <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 1284-1293.	2.3	143
22	Impact of transition from local swelling to macro swelling on the evolution of coal permeability. <i>International Journal of Coal Geology</i> , 2011, 88, 31-40.	1.9	143
23	Flow-Deformation Response of Dual-Porosity Media. <i>Journal of Geotechnical Engineering</i> , 1992, 118, 107-124.	0.4	142
24	Understanding induced seismicity. <i>Science</i> , 2016, 354, 1380-1381.	6.0	139
25	Evaluation of stress-controlled coal swelling processes. <i>International Journal of Coal Geology</i> , 2010, 83, 446-455.	1.9	137
26	Linking gas-sorption induced changes in coal permeability to directional strains through a modulus reduction ratio. <i>International Journal of Coal Geology</i> , 2010, 83, 21-30.	1.9	136
27	Influence of the effective stress coefficient and sorption-induced strain on the evolution of coal permeability: Model development and analysis. <i>International Journal of Greenhouse Gas Control</i> , 2012, 8, 101-110.	2.3	136
28	Development of anisotropic permeability during coalbed methane production. <i>Journal of Natural Gas Science and Engineering</i> , 2010, 2, 197-210.	2.1	135
29	Permeability reduction of a natural fracture under net dissolution by hydrothermal fluids. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	134
30	A mechanistic model for compaction of granular aggregates moderated by pressure solution. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	130
31	Dike intrusion as a trigger for large earthquakes and the failure of volcano flanks. <i>Journal of Geophysical Research</i> , 1995, 100, 6005-6024.	3.3	124
32	A dual poroelastic model for CO ₂ -enhanced coalbed methane recovery. <i>International Journal of Coal Geology</i> , 2011, 86, 177-189.	1.9	124
33	Frictional stability-permeability relationships for fractures in shales. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1760-1776.	1.4	120
34	The effect of natural fractures on hydraulic fracturing propagation in coal seams. <i>Journal of Petroleum Science and Engineering</i> , 2017, 150, 180-190.	2.1	120
35	Breakdown pressure and fracture surface morphology of hydraulic fracturing in shale with H ₂ O, CO ₂ and N ₂ . <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 63-76.	1.3	119
36	Fault zone restrengthening and frictional healing: The role of pressure solution. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	116

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37	Permeability evolution of fluid-infiltrated coal containing discrete fractures. International Journal of Coal Geology, 2011, 85, 202-211.	1.9	113
38	Effects of bedding on the dynamic indirect tensile strength of coal: Laboratory experiments and numerical simulation. International Journal of Coal Geology, 2014, 132, 81-93.	1.9	113
39	Experimental evaluation of CO ₂ enhanced recovery of adsorbed-gas from shale. International Journal of Coal Geology, 2017, 179, 211-218.	1.9	112
40	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
41	Analysis of coupled gas flow and deformation process with desorption and Klinkenberg effects in coal seams. International Journal of Rock Mechanics and Minings Sciences, 2007, 44, 971-980.	2.6	111
42	The Influence of Fracturing Fluids on Fracturing Processes: A Comparison Between Water, Oil and SC-CO ₂ . Rock Mechanics and Rock Engineering, 2018, 51, 299-313.	2.6	110
43	Flank collapse triggered by intrusion: the Canarian and Cape Verde Archipelagoes. Journal of Volcanology and Geothermal Research, 1999, 94, 323-340.	0.8	106
44	Spontaneous switching of permeability changes in a limestone fracture with net dissolution. Water Resources Research, 2004, 40, .	1.7	106
45	A coupled flow-stress-damage model for groundwater outbursts from an underlying aquifer into mining excavations. International Journal of Rock Mechanics and Minings Sciences, 2007, 44, 87-97.	2.6	105
46	Experimental investigation on dynamic strength and energy dissipation characteristics of gas outburst-prone coal. Energy Science and Engineering, 2020, 8, 1015-1028.	1.9	100
47	Permeability Evolution in Natural Fractures Subject to Cyclic Loading and Gouge Formation. Rock Mechanics and Rock Engineering, 2016, 49, 3463-3479.	2.6	98
48	Laboratory evidence for particle mobilization as a mechanism for permeability enhancement via dynamic stressing. Earth and Planetary Science Letters, 2014, 392, 279-291.	1.8	97
49	Microcrack-based coupled damage and flow modeling of fracturing evolution in permeable brittle rocks. Computers and Geotechnics, 2013, 49, 226-244.	2.3	94
50	Impact of CO ₂ injection and differential deformation on CO ₂ injectivity under in-situ stress conditions. International Journal of Coal Geology, 2010, 81, 97-108.	1.9	93
51	A critical evaluation of unconventional gas recovery from the marcellus shale, northeastern United States. KSCE Journal of Civil Engineering, 2011, 15, 679-687.	0.9	93
52	Geomechanics of CO ₂ enhanced shale gas recovery. Journal of Natural Gas Science and Engineering, 2015, 26, 1607-1619.	2.1	93
53	Modeling of subsidence and stress-dependent hydraulic conductivity for intact and fractured porous media. Rock Mechanics and Rock Engineering, 1994, 27, 209-234.	2.6	92
54	Linking stress-dependent effective porosity and hydraulic conductivity fields to RMR. International Journal of Rock Mechanics and Minings Sciences, 1999, 36, 581-596.	2.6	91

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55	Production optimization in fractured geothermal reservoirs by coupled discrete fracture network modeling. <i>Geothermics</i> , 2016, 62, 131-142.	1.5	90
56	Fabric induced weakness of tectonic faults. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	89
57	Implications of Magma Transfer Between Multiple Reservoirs on Eruption Cycling. <i>Science</i> , 2008, 322, 246-248.	6.0	87
58	Characterization of Coalbed Methane Reservoirs at Multiple Length Scales: A Cross-Section from Southeastern Ordos Basin, China. <i>Energy & Fuels</i> , 2014, 28, 5587-5595.	2.5	87
59	Instability and collapse of hazardous gas-pressurized lava domes. <i>Geophysical Research Letters</i> , 2000, 27, 1-4.	1.5	85
60	Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	84
61	Fracture spacing in layered materials: A new explanation based on two-dimensional failure process modeling. <i>Numerische Mathematik</i> , 2008, 308, 49-72.	0.7	84
62	Mechanical Behavior of Methane Infiltrated Coal: the Roles of Gas Desorption, Stress Level and Loading Rate. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 945-958.	2.6	84
63	Why shale permeability changes under variable effective stresses: New insights. <i>Fuel</i> , 2018, 213, 55-71.	3.4	83
64	Complex evolution of coal permeability during CO ₂ injection under variable temperatures. <i>International Journal of Greenhouse Gas Control</i> , 2012, 9, 281-293.	2.3	82
65	Frictional strength and strain weakening in simulated fault gouge: Competition between geometrical weakening and chemical strengthening. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	79
66	Microcrack-based geomechanical modeling of rock-gas interaction during supercritical CO ₂ fracturing. <i>Journal of Petroleum Science and Engineering</i> , 2018, 164, 91-102.	2.1	79
67	Analysis of thermally induced changes in fractured rock permeability during 8 years of heating and cooling at the Yucca Mountain Drift Scale Test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 1373-1389.	2.6	78
68	In situ observations on the coupling between hydraulic diffusivity and displacements during fault reactivation in shales. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7729-7748.	1.4	78
69	CO ₂ /CH ₄ Competitive Adsorption in Shale: Implications for Enhancement in Gas Production and Reduction in Carbon Emissions. <i>Environmental Science & Technology</i> , 2019, 53, 9328-9336.	4.6	78
70	Role of proppant distribution on the evolution of hydraulic fracture conductivity. <i>Journal of Petroleum Science and Engineering</i> , 2018, 166, 249-262.	2.1	77
71	Coupled mechanical and chemical processes in engineered geothermal reservoirs with dynamic permeability. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010, 47, 1339-1348.	2.6	76
72	Nanopore characterization of mine roof shales by SANS, nitrogen adsorption, and mercury intrusion: Impact on water adsorption/retention behavior. <i>International Journal of Coal Geology</i> , 2018, 200, 173-185.	1.9	75

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73	Compaction of a Rock Fracture Moderated by Competing Roles of Stress Corrosion and Pressure Solution. <i>Pure and Applied Geophysics</i> , 2008, 165, 1289-1306.	0.8	74
74	Healing of simulated fault gouges aided by pressure solution: Results from rock analogue experiments. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	74
75	A continuum model for coupled stress and fluid flow in discrete fracture networks. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 43-61.	1.3	74
76	Evolution of coal permeability: Contribution of heterogeneous swelling processes. <i>International Journal of Coal Geology</i> , 2011, 88, 152-162.	1.9	73
77	Analysis of fluid injection-induced fault reactivation and seismic slip in geothermal reservoirs. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 3340-3353.	1.4	73
78	A fully coupled multidomain and multiphysics model for evaluation of shale gas extraction. <i>Fuel</i> , 2020, 278, 118214.	3.4	73
79	Water Vapor Sorption Properties of Illinois Shales Under Dynamic Water Vapor Conditions: Experimentation and Modeling. <i>Water Resources Research</i> , 2019, 55, 7212-7228.	1.7	71
80	Coal permeability maps under the influence of multiple coupled processes. <i>International Journal of Coal Geology</i> , 2018, 187, 71-82.	1.9	70
81	Permeability evolution in sorbing media: analogies between organic-rich shale and coal. <i>Geofluids</i> , 2016, 16, 43-55.	0.3	69
82	Chemically and mechanically mediated influences on the transport and mechanical characteristics of rock fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 80-89.	2.6	67
83	Optimizing enhanced coalbed methane recovery for unhindered production and CO2 injectivity. <i>International Journal of Greenhouse Gas Control</i> , 2012, 11, 86-97.	2.3	67
84	Estimation and modeling of coal pore accessibility using small angle neutron scattering. <i>Fuel</i> , 2015, 161, 323-332.	3.4	67
85	Reassessment of coal permeability evolution using steady-state flow methods: The role of flow regime transition. <i>International Journal of Coal Geology</i> , 2019, 211, 103210.	1.9	66
86	Scale effects and strength anisotropy in coal. <i>International Journal of Coal Geology</i> , 2018, 195, 37-46.	1.9	63
87	Characterization of rock fissure hydraulic conductivity using idealized wall roughness profiles. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1986, 23, 233-243.	0.3	61
88	Uniaxial strength and failure in sandstone containing a pre-existing 3-D surface flaw. <i>International Journal of Fracture</i> , 2015, 194, 59-79.	1.1	61
89	Laboratory investigations of gas flow behaviors in tight anthracite and evaluation of different pulse-decay methods on permeability estimation. <i>International Journal of Coal Geology</i> , 2015, 149, 118-128.	1.9	61
90	Numerical study of a stress dependent triple porosity model for shale gas reservoirs accommodating gas diffusion in kerogen. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 32, 423-438.	2.1	59

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91	The role of gas desorption on gas outbursts in underground mining of coal. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2016, 2, 151-171.	1.3	59
92	Effect of CO2 injection on heterogeneously permeable coalbed reservoirs. Fuel, 2014, 135, 509-521.	3.4	58
93	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
94	Effects of local rock heterogeneities on the hydromechanics of fractured rocks using a digital-image-based technique. International Journal of Rock Mechanics and Minings Sciences, 2006, 43, 1182-1199.	2.6	57
95	Influence of shear and deviatoric stress on the evolution of permeability in fractured rock. Journal of Geophysical Research, 2009, 114, .	3.3	57
96	Failure mechanisms in coal: Dependence on strain rate and microstructure. Journal of Geophysical Research: Solid Earth, 2014, 119, 6924-6935.	1.4	56
97	Dual-damage constitutive model to define thermal damage in rock. International Journal of Rock Mechanics and Minings Sciences, 2020, 126, 104185.	2.6	56
98	A numerical model simulating reactive transport and evolution of fracture permeability. International Journal for Numerical and Analytical Methods in Geomechanics, 2006, 30, 1039-1062.	1.7	55
99	A mechanistic model for permeability evolution in fractured sorbing media. Journal of Geophysical Research, 2012, 117, .	3.3	55
100	Geological and hydrological controls on water coproduced with coalbed methane in Liulin, eastern Ordos basin, China. AAPG Bulletin, 2015, 99, 207-229.	0.7	54
101	The influence of Preslip Sealing on the Permeability Evolution of Fractures and Faults. Geophysical Research Letters, 2018, 45, 166-175.	1.5	54
102	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
103	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
104	Evaluation of volcano flank instability triggered by dyke intrusion. Geological Society Special Publication, 1996, 110, 45-53.	0.8	52
105	Three-dimensional effects of hydraulic conductivity enhancement and desaturation around mined panels. International Journal of Rock Mechanics and Minings Sciences, 1997, 34, 1139-1152.	2.6	52
106	Roles of coal heterogeneity on evolution of coal permeability under unconstrained boundary conditions. Journal of Natural Gas Science and Engineering, 2013, 15, 38-52.	2.1	52
107	Propagation, proppant transport and the evolution of transport properties of hydraulic fractures. Journal of Fluid Mechanics, 2018, 855, 503-534.	1.4	52
108	Mechanistic analysis of coal permeability evolution data under stress-controlled conditions. International Journal of Rock Mechanics and Minings Sciences, 2018, 110, 36-47.	2.6	52

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109	Experiment and modeling to evaluate the effects of proppant-pack diagenesis on fracture treatments. <i>Journal of Petroleum Science and Engineering</i> , 2010, 74, 67-76.	2.1	51
110	Permeability evolution of propped artificial fractures in coal on injection of CO ₂ . <i>Journal of Petroleum Science and Engineering</i> , 2015, 133, 695-704.	2.1	51
111	The influence of thermal-hydraulic-mechanical- and chemical effects on the evolution of permeability, seismicity and heat production in geothermal reservoirs. <i>Geothermics</i> , 2015, 53, 385-395.	1.5	51
112	Evolution of permeability during the process of shale gas extraction. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 49, 94-109.	2.1	51
113	Effect of coal maturity on CO ₂ -based hydraulic fracturing process in coal seam gas reservoirs. <i>Fuel</i> , 2019, 236, 179-189.	3.4	51
114	Influence of gas adsorption induced non-uniform deformation on the evolution of coal permeability. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 2019, 114, 71-78.	2.6	51
115	Modeling of naturally fractured reservoirs using deformation dependent flow mechanism. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1993, 30, 1185-1191.	0.3	50
116	A fully-coupled hydrological–mechanical–chemical model for fracture sealing and preferential opening. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 2006, 43, 23-36.	2.6	50
117	Impact of Gas Adsorption Induced Coal Matrix Damage on the Evolution of Coal Permeability. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 1353-1366.	2.6	50
118	An improved permeability evolution model and its application in fractured sorbing media. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 56, 222-232.	2.1	50
119	Laboratory assessment of the equivalent apertures of a rock fracture. <i>Geophysical Research Letters</i> , 1993, 20, 1387-1390.	1.5	49
120	Breakdown pressures due to infiltration and exclusion in finite length boreholes. <i>Journal of Petroleum Science and Engineering</i> , 2015, 127, 329-337.	2.1	49
121	Permeability Evolution and Frictional Stability of Fabricated Fractures With Specified Roughness. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9355-9375.	1.4	48
122	Mineralogical Controls on Frictional Strength, Stability, and Shear Permeability Evolution of Fractures. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3549-3563.	1.4	47
123	Analysis of Stress-dependent Permeability in Nonorthogonal Flow and Deformation Fields. <i>Rock Mechanics and Rock Engineering</i> , 1999, 32, 195-219.	2.6	46
124	Friction–Stability–Permeability Evolution of a Fracture in Granite. <i>Water Resources Research</i> , 2018, 54, 9901-9918.	1.7	46
125	Effect of temperature and confining pressure on the evolution of hydraulic and heat transfer properties of geothermal fracture in granite. <i>Applied Energy</i> , 2020, 272, 115290.	5.1	46
126	Thermal permeability enhancement of blocky rocks: One-dimensional flows. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1989, 26, 329-339.	0.3	45

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127	Evaluation of fully-coupled strata deformation and groundwater flow in response to longwall mining. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 1997, 34, 1187-1199.	2.6	45
128	Numerical modelling of coupled flow and deformation in fractured rock specimens. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1999, 23, 141-160.	1.7	45
129	Magmaâ€sponge hypothesis and stratovolcanoes: Case for a compressible reservoir and quasiâ€steady deep influx at Soufriaâ€re Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	45
130	Three stages of methane adsorption capacity affected by moisture content. <i>Fuel</i> , 2018, 231, 352-360.	3.4	45
131	Thermal-hydrologic mechanism for rainfall-triggered collapse of lava domes. <i>Geology</i> , 2004, 32, 969.	2.0	44
132	Permeability evolution during dynamic stressing of dual permeability media. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44
133	Linking permeability to crack density evolution in thermally stressed rocks under cyclic loading. <i>Geophysical Research Letters</i> , 2013, 40, 2590-2595.	1.5	43
134	Distinct element modeling of strength variation in jointed rock masses under uniaxial compression. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2016, 2, 11-24.	1.3	43
135	Experimental simulation of the hydraulic fracture propagation in an anthracite coal reservoir in the southern Qinshui basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2018, 168, 400-408.	2.1	43
136	A hybrid boundary element-finite element analysis procedure for fluid flow simulation in fractured rock masses. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1986, 10, 569-584.	1.7	42
137	Flow rate dictates permeability enhancement during fluid pressure oscillations in laboratory experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2037-2055.	1.4	42
138	Rapid decompression and desorption induced energetic failure in coal. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015, 7, 345-350.	3.7	42
139	Fracture evolution in artificial bedded rocks containing a structural flaw under uniaxial compression. <i>Engineering Geology</i> , 2019, 250, 130-141.	2.9	42
140	Preliminary evaluation of gas content of the No. 2 coal seam in the Yanchuannan area, southeast Ordos basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2014, 122, 675-689.	2.1	41
141	Hydraulic fracturing with leakoff in a pressure-sensitive dual porosity medium. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 107, 55-68.	2.6	41
142	Controls of CO ₂ â€N ₂ gas flood ratios on enhanced shale gas recovery and ultimate CO ₂ sequestration. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 1037-1045.	2.1	41
143	Effect of mineralogy on friction-dilation relationships for simulated faults: Implications for permeability evolution in caprock faults. <i>Geoscience Frontiers</i> , 2020, 11, 439-450.	4.3	41
144	Lithofacies and pore characterization of the Lower Permian Shanxi and Taiyuan shales in the southern North China Basin. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 644-661.	2.1	40

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145	A relation to predict the failure of materials and potential application to volcanic eruptions and landslides. <i>Scientific Reports</i> , 2016, 6, 27877.	1.6	39
146	A damage mechanics approach to the simulation of hydraulic fracturing/shearing around a geothermal injection well. <i>Computers and Geotechnics</i> , 2016, 71, 338-351.	2.3	39
147	Sedimentary characteristics of the Lower Cambrian Niutitang shale in the southeast margin of Sichuan Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 1140-1150.	2.1	39
148	Effects of microstructure on water imbibition in sandstones using X-ray computed tomography and neutron radiography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4963-4981.	1.4	39
149	A model to evaluate the transient hydraulic response of three-dimensional sparsely fractured rock masses. <i>Water Resources Research</i> , 1986, 22, 1809-1819.	1.7	37
150	Evaluation of groundwater flow into mined panels. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1993, 30, 71-79.	0.3	37
151	Vulcanian explosion at Soufrière Hills Volcano, Montserrat on March 2004 as revealed by strain data. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	37
152	Failure response of composite rock-coal samples. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2018, 4, 175-192.	1.3	37
153	Some aspects of mining under aquifers in China. <i>Mining Science and Technology</i> , 1990, 10, 81-91.	0.0	36
154	Unique and remarkable dilatometer measurements of pyroclastic flow-generated tsunamis. <i>Geology</i> , 2007, 35, 25.	2.0	36
155	Significant effect of grain size distribution on compaction rates in granular aggregates. <i>Earth and Planetary Science Letters</i> , 2009, 284, 386-391.	1.8	36
156	A dual-scale approach to model time-dependent deformation, creep and fracturing of brittle rocks. <i>Computers and Geotechnics</i> , 2014, 60, 61-76.	2.3	36
157	Predicting time-to-failure in rock extrapolated from secondary creep. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1942-1953.	1.4	36
158	Vertical Heterogeneity of the Shale Reservoir in the Lower Silurian Longmaxi Formation: Analogy between the Southeastern and Northeastern Sichuan Basin, SW China. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 151.	0.8	36
159	Micro-scale investigation on coupling of gas diffusion and mechanical deformation of shale. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 961-970.	2.1	36
160	Controlling effects of differential swelling index on evolution of coal permeability. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 461-472.	3.7	36
161	Geodetic constraints on the shallow magma system at Soufrière Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	35
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