

# Jonny Rutqvist

## List of Publications by Year in descending order

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256  
papers

14,346  
citations

20759

60  
h-index

24915

109  
g-index

284  
all docs

284  
docs citations

284  
times ranked

6037  
citing authors

#	ARTICLE	IF	CITATIONS
1	A modeling approach for analysis of coupled multiphase fluid flow, heat transfer, and deformation in fractured porous rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2002, 39, 429-442.	2.6	667
2	The role of hydromechanical coupling in fractured rock engineering. <i>Hydrogeology Journal</i> , 2003, 11, 7-40.	0.9	526
3	The Geomechanics of CO <sub>2</sub> Storage in Deep Sedimentary Formations. <i>Geotechnical and Geological Engineering</i> , 2012, 30, 525-551.	0.8	496
4	Stress-dependent permeability of fractured rock masses: a numerical study. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2004, 41, 1191-1210.	2.6	417
5	A study of caprock hydromechanical changes associated with CO <sub>2</sub> -injection into a brine formation. <i>Environmental Geology</i> , 2002, 42, 296-305.	1.2	389
6	Estimating maximum sustainable injection pressure during geological sequestration of CO <sub>2</sub> using coupled fluid flow and geomechanical fault-slip analysis. <i>Energy Conversion and Management</i> , 2007, 48, 1798-1807.	4.4	382
7	Modeling of coupled deformation and permeability evolution during fault reactivation induced by deep underground injection of CO <sub>2</sub> . <i>International Journal of Greenhouse Gas Control</i> , 2011, 5, 336-346.	2.3	357
8	A method for quick assessment of CO <sub>2</sub> storage capacity in closed and semi-closed saline formations. <i>International Journal of Greenhouse Gas Control</i> , 2008, 2, 626-639.	2.3	343
9	A New Coal-Permeability Model: Internal Swelling Stress and Fracture-Matrix Interaction. <i>Transport in Porous Media</i> , 2010, 82, 157-171.	1.2	320
10	Coupled reservoir-geomechanical analysis of CO <sub>2</sub> injection and ground deformations at In Salah, Algeria. <i>International Journal of Greenhouse Gas Control</i> , 2010, 4, 225-230.	2.3	301
11	Coupled reservoir-geomechanical analysis of the potential for tensile and shear failure associated with CO <sub>2</sub> injection in multilayered reservoir-caprock systems. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 132-143.	2.6	290
12	Status of the TOUGH-FLAC simulator and recent applications related to coupled fluid flow and crustal deformations. <i>Computers and Geosciences</i> , 2011, 37, 739-750.	2.0	277
13	Challenges, Uncertainties, and Issues Facing Gas Production From Gas-Hydrate Deposits. <i>SPE Reservoir Evaluation and Engineering</i> , 2011, 14, 76-112.	1.1	257
14	Modeling of fault reactivation and induced seismicity during hydraulic fracturing of shale-gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2013, 107, 31-44.	2.1	216
15	Thermohydromechanics of partially saturated geological media: governing equations and formulation of four finite element models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 105-127.	2.6	214
16	On the relationship between stress and elastic strain for porous and fractured rock. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2009, 46, 289-296.	2.6	189
17	Geomechanical response of permafrost-associated hydrate deposits to depressurization-induced gas production. <i>Journal of Petroleum Science and Engineering</i> , 2009, 67, 1-12.	2.1	175
18	Code intercomparison builds confidence in numerical simulation models for geologic disposal of CO <sub>2</sub> . <i>Energy</i> , 2004, 29, 1431-1444.	4.5	174

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19	Impact of CO <sub>2</sub> geological sequestration on the nucleation of earthquakes. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	168
20	Fault activation and induced seismicity in geological carbon storage – Lessons learned from recent modeling studies. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 789-804.	3.7	150
21	Induced seismicity within geological carbon sequestration projects: Maximum earthquake magnitude and leakage potential from undetected faults. International Journal of Greenhouse Gas Control, 2012, 10, 434-442.	2.3	142
22	Coupled multiphase fluid flow and wellbore stability analysis associated with gas production from oceanic hydrate-bearing sediments. Journal of Petroleum Science and Engineering, 2012, 92-93, 65-81.	2.1	133
23	Exploring the concept of compressed air energy storage (CAES) in lined rock caverns at shallow depth: A modeling study of air tightness and energy balance. Applied Energy, 2012, 92, 653-667.	5.1	133
24	Geomechanical effects on CO <sub>2</sub> leakage through fault zones during large-scale underground injection. International Journal of Greenhouse Gas Control, 2014, 20, 117-131.	2.3	133
25	Modeling of deep fracture zone opening and transient ground surface uplift at KB-502 CO <sub>2</sub> injection well, In Salah, Algeria. International Journal of Greenhouse Gas Control, 2013, 12, 155-167.	2.3	132
26	Fractured rock stress–permeability relationships from in situ data and effects of temperature and chemical–mechanical couplings. Geofluids, 2015, 15, 48-66.	0.3	127
27	Modeling of fault activation and seismicity by injection directly into a fault zone associated with hydraulic fracturing of shale-gas reservoirs. Journal of Petroleum Science and Engineering, 2015, 127, 377-386.	2.1	127
28	The FEBEX benchmark test: case definition and comparison of modelling approaches. International Journal of Rock Mechanics and Minings Sciences, 2005, 42, 611-638.	2.6	125
29	Numerical Studies on the Geomechanical Stability of Hydrate-Bearing Sediments. SPE Journal, 2009, 14, 267-282.	1.7	117
30	Modeling crustal deformation and rupture processes related to upwelling of deep CO <sub>2</sub> -rich fluids during the 1965–1967 Matushiro earthquake swarm in Japan. Journal of Geophysical Research, 2009, 114, .	3.3	109
31	Uncertainty in the maximum principal stress estimated from hydraulic fracturing measurements due to the presence of the induced fracture. International Journal of Rock Mechanics and Minings Sciences, 2000, 37, 107-120.	2.6	108
32	Modeling of coupled thermodynamic and geomechanical performance of underground compressed air energy storage in lined rock caverns. International Journal of Rock Mechanics and Minings Sciences, 2012, 52, 71-81.	2.6	106
33	Modeling of recent volcanic episodes at Phlegrean Fields (Italy): geochemical variations and ground deformation. Geothermics, 2004, 33, 531-547.	1.5	100
34	Long term impacts of cold CO <sub>2</sub> injection on the caprock integrity. International Journal of Greenhouse Gas Control, 2014, 24, 1-13.	2.3	93
35	Determination of fracture storativity in hard rocks using high-pressure injection testing. Water Resources Research, 1998, 34, 2551-2560.	1.7	92
36	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.	2.6	92

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37	Formulation and sequential numerical algorithms of coupled fluid/heat flow and geomechanics for multiple porosity materials. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 92, 425-456.	1.5	91
38	On the impact of temperatures up to 200 Å°C in clay repositories with bentonite engineer barrier systems: A study with coupled thermal, hydrological, chemical, and mechanical modeling. <i>Engineering Geology</i> , 2015, 197, 278-295.	2.9	90
39	Coupled thermalâ€“hydrologicalâ€“mechanical analyses of the Yucca Mountain Drift Scale Testâ€”Comparison of field measurements to predictions of four different numerical models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 680-697.	2.6	89
40	A comparative review of hydrologic issues involved in geologic storage of CO2 and injection disposal of liquid waste. <i>Environmental Geology</i> , 2008, 54, 1723-1737.	1.2	89
41	Thermal effects on geologic carbon storage. <i>Earth-Science Reviews</i> , 2017, 165, 245-256.	4.0	86
42	Coupled thermo-hydro-mechanical analysis of a heater test in fractured rock and bentonite at Kamaishi Mine â€” comparison of field results to predictions of four finite element codes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 129-142.	2.6	81
43	Characterising and modelling the excavation damaged zone in crystalline rock in the context of radioactive waste disposal. <i>Environmental Geology</i> , 2009, 57, 1275-1297.	1.2	81
44	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
45	Seismic rupture and ground accelerations induced by CO2 injection in the shallow crust. <i>Geophysical Journal International</i> , 2012, 190, 1784-1789.	1.0	78
46	Coupled reservoir-geomechanical analysis of CO2 injection at In Salah, Algeria. <i>Energy Procedia</i> , 2009, 1, 1847-1854.	1.8	76
47	Linked multicontinuum and crack tensor approach for modeling of coupled geomechanics, fluid flow and transport in fractured rock. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2013, 5, 18-31.	3.7	74
48	The Northwest Geysers EGS Demonstration Project, California. <i>Geothermics</i> , 2016, 63, 97-119.	1.5	74
49	Induced seismicity in geologic carbon storage. <i>Solid Earth</i> , 2019, 10, 871-892.	1.2	74
50	Thermo-hydro-mechanical characterisation of a bentonite-based buffer material by laboratory tests and numerical back analyses. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 95-104.	2.6	71
51	Fully coupled two-phase flow and poromechanics modeling of coalbed methane recovery: Impact of geomechanics on production rate. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 474-486.	2.1	71
52	Analysis of thermalâ€“hydrologicâ€“mechanical behavior near an emplacement drift at Yucca Mountain. <i>Journal of Contaminant Hydrology</i> , 2003, 62-63, 637-652.	1.6	69
53	Non-isothermal flow in low permeable porous media: a comparison of Richardsâ€™ and two-phase flow approaches. <i>Environmental Earth Sciences</i> , 2011, 62, 1197-1207.	1.3	68
54	Normal-stress dependence of fracture hydraulic properties including two-phase flow properties. <i>Hydrogeology Journal</i> , 2013, 21, 371-382.	0.9	68

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55	A numerical manifold method model for analyzing fully coupled hydro-mechanical processes in porous rock masses with discrete fractures. <i>Advances in Water Resources</i> , 2017, 102, 111-126.	1.7	68
56	Modeling Three-Dimensional Fluid-Driven Propagation of Multiple Fractures using TOUGH-FEMM. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 611-627.	2.6	68
57	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
58	Numerical Studies on Two-Way Coupled Fluid Flow and Geomechanics in Hydrate Deposits. <i>SPE Journal</i> , 2012, 17, 485-501.	1.7	67
59	The Northwest Geysers EGS Demonstration Project, California: Pre-stimulation Modeling and Interpretation of the Stimulation. <i>Mathematical Geosciences</i> , 2015, 47, 3-29.	1.4	67
60	A numerical study of THM effects on the near-field safety of a hypothetical nuclear waste repositoryâ€™BMT1 of the DECOVALEX III project. Part 3: Effects of THM coupling in sparsely fractured rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 745-755.	2.6	64
61	Hydromechanical modelling of pulse tests that measure fluid pressure and fracture normal displacement at the Coaraze Laboratory site, France. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2006, 43, 1062-1082.	2.6	64
62	Implementation of the Barcelona Basic Model into TOUGHâ€™FLAC for simulations of the geomechanical behavior of unsaturated soils. <i>Computers and Geosciences</i> , 2011, 37, 751-762.	2.0	63
63	Effects of faultâ€™zone architecture on earthquake magnitude and gas leakage related to CO <sub>2</sub> injection in a multiâ€™layered sedimentary system. , 2014, 4, 99-120.		60
64	Fault reactivation during CO <sub>2</sub> sequestration: Effects of well orientation on seismicity and leakage. , 2015, 5, 645-656.		60
65	The impacts of mechanical stress transfers caused by hydromechanical and thermal processes on fault stability during hydraulic stimulation in a deep geothermal reservoir. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 72, 149-163.	2.6	58
66	Characterizing Excavation Damaged Zone and Stability of Pressurized Lined Rock Caverns for Underground Compressed Air Energy Storage. <i>Rock Mechanics and Rock Engineering</i> , 2013, 46, 1113-1124.	2.6	57
67	A study of changes in deep fractured rock permeability due to coupled hydro-mechanical effects. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 79, 70-85.	2.6	55
68	Coupled THM Modeling of Hydroshearing Stimulation in Tight Fractured Volcanic Rock. <i>Transport in Porous Media</i> , 2015, 108, 131-150.	1.2	55
69	Results from an International Simulation Study on Coupled Thermal, Hydrological, and Mechanical Processes near Geological Nuclear Waste Repositories. <i>Nuclear Technology</i> , 2008, 163, 101-109.	0.7	54
70	Hydro-mechanical model for wetting/drying and fracture development in geomaterials. <i>Computers and Geosciences</i> , 2014, 65, 13-23.	2.0	54
71	ISRM Suggested Method for Step-Rate Injection Method for Fracture In-Situ Properties (SIMFIP): Using a 3-Components Borehole Deformation Sensor. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 303-311.	2.6	53
72	Coupled THMC models for bentonite in an argillite repository for nuclear waste: Illitization and its effect on swelling stress under high temperature. <i>Engineering Geology</i> , 2017, 230, 118-129.	2.9	53

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73	Modeling of damage, permeability changes and pressure responses during excavation of the TSX tunnel in granitic rock at URL, Canada. <i>Environmental Geology</i> , 2009, 57, 1263-1274.	1.2	52
74	The Northwest Geysers EGS Demonstration Project, California – Part 2: Modeling and interpretation. <i>Geothermics</i> , 2016, 63, 120-138.	1.5	51
75	Determination of hydraulic normal stiffness of fractures in hard rock from well testing. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1995, 32, 513-523.	0.3	50
76	A comparative simulation study of coupled THM processes and their effect on fractured rock permeability around nuclear waste repositories. <i>Environmental Geology</i> , 2009, 57, 1347-1360.	1.2	50
77	Coupled non-isothermal, multiphase fluid flow, and geomechanical modeling of ground surface deformations and potential for induced micro-seismicity at the In Salah CO <sub>2</sub> storage operation. <i>Energy Procedia</i> , 2011, 4, 3542-3549.	1.8	50
78	Monitoring deformation at the Geysers Geothermal Field, California using C-band and X-band interferometric synthetic aperture radar. <i>Geophysical Research Letters</i> , 2013, 40, 2567-2572.	1.5	50
79	Coupled hydro-mechanical processes and fault reactivation induced by CO <sub>2</sub> injection in a three-layer storage formation. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 432-448.	2.3	50
80	Long-term thermal effects on injectivity evolution during CO <sub>2</sub> storage. <i>International Journal of Greenhouse Gas Control</i> , 2017, 64, 314-322.	2.3	50
81	Coupled thermal-hydrological-mechanical modeling of CO <sub>2</sub> -enhanced coalbed methane recovery. <i>International Journal of Coal Geology</i> , 2017, 179, 81-91.	1.9	49
82	An overview of TOUGH-based geomechanics models. <i>Computers and Geosciences</i> , 2017, 108, 56-63.	2.0	49
83	A cyclic hydraulic jacking test to determine the in situ stress normal to a fracture. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1996, 33, 695-711.	0.3	48
84	Fully coupled hydro-mechanical numerical manifold modeling of porous rock with dominant fractures. <i>Acta Geotechnica</i> , 2017, 12, 231-252.	2.9	48
85	Joint opening or hydroshearing? Analyzing a fracture zone stimulation at Fenton Hill. <i>Geothermics</i> , 2019, 77, 83-98.	1.5	48
86	Role of agricultural activity on land subsidence in the San Joaquin Valley, California. <i>Journal of Hydrology</i> , 2019, 569, 462-469.	2.3	48
87	Modeling of induced seismicity and ground vibrations associated with geologic CO <sub>2</sub> storage, and assessing their effects on surface structures and human perception. <i>International Journal of Greenhouse Gas Control</i> , 2014, 24, 64-77.	2.3	47
88	Thermally induced mechanical and permeability changes around a nuclear waste repository – a far-field study based on equivalent properties determined by a discrete approach. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 2005, 42, 765-780.	2.6	46
89	A 3D hydrogeological and geomechanical model of an Enhanced Geothermal System at The Geysers, California. <i>Geothermics</i> , 2014, 51, 240-252.	1.5	43
90	Study of hydraulic fracturing processes in shale formations with complex geological settings. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 361-374.	2.1	43

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91	A multiple-code simulation study of the long-term EDZ evolution of geological nuclear waste repositories. <i>Environmental Geology</i> , 2009, 57, 1313-1324.	1.2	42
92	Long-term modeling of the thermal–hydraulic–mechanical response of a generic salt repository for heat-generating nuclear waste. <i>Engineering Geology</i> , 2015, 193, 198-211.	2.9	42
93	A new second-order numerical manifold method model with an efficient scheme for analyzing free surface flow with inner drains. <i>Applied Mathematical Modelling</i> , 2016, 40, 1427-1445.	2.2	41
94	Numerical Studies on the Geomechanical Stability of Hydrate-Bearing Sediments. , 2007, , .		40
95	A practical model for fluid flow in discrete-fracture porous media by using the numerical manifold method. <i>Advances in Water Resources</i> , 2016, 97, 38-51.	1.7	40
96	Thermal and capillary effects on the caprock mechanical stability at In Salah, Algeria. , 2015, 5, 449-461.		37
97	Fractured reservoirs: An analysis of coupled elastodynamic and permeability changes from pore-pressure variation. <i>Geophysics</i> , 2006, 71, O33-O41.	1.4	36
98	Energy–work–based numerical manifold seepage analysis with an efficient scheme to locate the phreatic surface. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2014, 38, 1633-1650.	1.7	36
99	Thermal management associated with geologic disposal of large spent nuclear fuel canisters in tunnels with thermally engineered backfill. <i>Tunnelling and Underground Space Technology</i> , 2020, 102, 103454.	3.0	36
100	A comprehensive review of proppant embedment in shale reservoirs: Experimentation, modeling and future prospects. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104143.	2.1	36
101	Modeling of caprock discontinuous fracturing during CO <sub>2</sub> injection into a deep brine aquifer. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 559-575.	2.3	35
102	An Approach for Modeling Rock Discontinuous Mechanical Behavior Under Multiphase Fluid Flow Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 589-603.	2.6	35
103	Reservoir structure and properties from geomechanical modeling and microseismicity analyses associated with an enhanced geothermal system at The Geysers, California. <i>Geothermics</i> , 2014, 51, 460-469.	1.5	35
104	Assessing the geomechanical stability of interbedded hydrate-bearing sediments under gas production by depressurization at NGHP-02 Site 16. <i>Marine and Petroleum Geology</i> , 2019, 108, 648-659.	1.5	35
105	Hydro-mechanical response of a fractured granitic rock mass to excavation of a test pit – the Kamaishi Mine experiment in Japan. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 79-94.	2.6	34
106	TOUGH–RDCA modeling of multiple fracture interactions in caprock during CO <sub>2</sub> injection into a deep brine aquifer. <i>Computers and Geosciences</i> , 2014, 65, 24-36.	2.0	34
107	The effects of lateral property variations on fault-zone reactivation by fluid pressurization: Application to CO <sub>2</sub> pressurization effects within major and undetected fault zones. <i>Journal of Structural Geology</i> , 2014, 62, 97-108.	1.0	34
108	Can Fault Leakage Occur Before or Without Reactivation? Results from an in Situ Fault Reactivation Experiment at Mont Terri. <i>Energy Procedia</i> , 2017, 114, 3167-3174.	1.8	34



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109	Interactive roles of geometrical distribution and geomechanical deformation of fracture networks in fluid flow through fractured geological media. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 780-792.	3.7	34
110	Impact of stress on solute transport in a fracture network: A comparison study. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2013, 5, 110-123.	3.7	33
111	Inverse modeling of ground surface uplift and pressure with iTOUGH-PEST and TOUGH-FLAC: The case of CO2 injection at In Salah, Algeria. <i>Computers and Geosciences</i> , 2017, 108, 98-109.	2.0	33
112	Numerical manifold method modeling of coupled processes in fractured geological media at multiple scales. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 667-681.	3.7	33
113	Estimation of fracture flow parameters through numerical analysis of hydromechanical pressure pulses. <i>Water Resources Research</i> , 2008, 44, .	1.7	32
114	Dynamic simulation of CO2-injection-induced fault rupture with slip-rate dependent friction coefficient. <i>Geomechanics for Energy and the Environment</i> , 2016, 7, 47-65.	1.2	32
115	The Mechanism of Methane Gas Migration Through the Gas Hydrate Stability Zone: Insights From Numerical Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4399-4427.	1.4	32
116	A sequential implicit algorithm of chemo-thermo-poro-mechanics for fractured geothermal reservoirs. <i>Computers and Geosciences</i> , 2015, 76, 59-71.	2.0	31
117	Complexity of Fault Rupture and Fluid Leakage in Shale: Insights From a Controlled Fault Activation Experiment. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017781.	1.4	30
118	Numerical study of the THM effects on the near-field safety of a hypothetical nuclear waste repositoryâ€”BMT1 of the DECOVALEX III project. Part 2: Effects of THM coupling in continuous and homogeneous rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 731-744.	2.6	29
119	Seismic and aseismic deformations and impact on reservoir permeability: The case of EGS stimulation at The Geysers, California, USA. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7863-7882.	1.4	29
120	The effects of nearby fractures on hydraulically induced fracture propagation and permeability changes. <i>Engineering Geology</i> , 2017, 228, 197-213.	2.9	29
121	Numerical study of the THM effects on the near-field safety of a hypothetical nuclear waste repositoryâ€”BMT1 of the DECOVALEX III project. Part 1: Conceptualization and characterization of the problems and summary of results. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2005, 42, 720-730.	2.6	28
122	Coupled flow and geomechanical analysis for gas production in the Prudhoe Bay Unit L-106 well Unit C gas hydrate deposit in Alaska. <i>Journal of Petroleum Science and Engineering</i> , 2012, 92-93, 143-157.	2.1	28
123	Geomechanical simulation of the stress tensor rotation caused by injection of cold water in a deep geothermal reservoir. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8422-8438.	1.4	28
124	Permeability Variations Associated With Fault Reactivation in a Claystone Formation Investigated by Field Experiments and Numerical Simulations. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1694-1710.	1.4	28
125	Coupled seismo-hydromechanical monitoring of inelastic effects on injection-induced fracture permeability. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 61, 266-274.	2.6	27
126	CO2 storage and potential fault instability in the St. Lawrence Lowlands sedimentary basin (Quebec,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf Greenhouse Gas Control</i> , 2014, 22, 88-110.	2.3	27



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127	Failure Monitoring and Leakage Detection for Underground Storage of Compressed Air Energy in Lined Rock Caverns. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 573-584.	2.6	26
128	Coupled thermal-hydrological-mechanical behavior of rock mass surrounding a high-temperature thermal energy storage cavern at shallow depth. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 83, 149-161.	2.6	26
129	Chemical-Mechanical Impacts of CO <sub>2</sub> Intrusion Into Heterogeneous Caprock. <i>Water Resources Research</i> , 2020, 56, e2020WR027193.	1.7	26
130	TOUGH-RFPA: Coupled thermal-hydraulic-mechanical Rock Failure Process Analysis with application to deep geothermal wells. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 142, 104726.	2.6	26
131	Estimation of deformation and stiffness of fractures close to tunnels using data from single-hole hydraulic testing and grouting. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010, 47, 887-893.	2.6	25
132	Modelling the Mont Terri HE-D experiment for the Thermal-Hydraulic-Mechanical response of a bedded argillaceous formation to heating. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	25
133	A reliable numerical analysis for large-scale modelling of a high-level radioactive waste repository in the Callovo-Oxfordian claystone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 140, 104574.	2.6	25
134	Determining Young's modulus of granite using accurate grain-based modeling with microscale rock mechanical experiments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 157, 105167.	2.6	25
135	TOUGH-UDEC: A simulator for coupled multiphase fluid flows, heat transfers and discontinuous deformations in fractured porous media. <i>Computers and Geosciences</i> , 2019, 126, 120-130.	2.0	24
136	Theoretical and field studies of coupled hydromechanical behaviour of fractured rocks <sup>2</sup> . Field experiment and modelling. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 1992, 29, 411-419.	0.3	23
137	Use of a Dual-Structure Constitutive Model for Predicting the Long-Term Behavior of an Expansive Clay Buffer in a Nuclear Waste Repository. <i>International Journal of Geomechanics</i> , 2016, 16, .	1.3	23
138	Influence of injection-induced cooling on deviatoric stress and shear reactivation of preexisting fractures in Enhanced Geothermal Systems. <i>Geothermics</i> , 2017, 70, 367-375.	1.5	23
139	Fault Stability Perturbation by Thermal Pressurization and Stress Transfer Around a Deep Geological Repository in a Clay Formation. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8506-8518.	1.4	23
140	On continuous and discontinuous approaches for modeling groundwater flow in heterogeneous media using the Numerical Manifold Method: Model development and comparison. <i>Advances in Water Resources</i> , 2015, 80, 17-29.	1.7	22
141	Field-scale fault reactivation experiments by fluid injection highlight aseismic leakage in caprock analogs: Implications for CO <sub>2</sub> sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103471.	2.3	22
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