

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
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284
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284
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284
times ranked

6037
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-scale Coupled Processes Modeling of Fractures as Porous, Interfacial and Granular Systems from Rock Images with the Numerical Manifold Method. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3041-3059.	2.6	20
2	Cooling-induced reactivation of distant faults during long-term geothermal energy production in hot sedimentary aquifers. <i>Scientific Reports</i> , 2022, 12, 2065.	1.6	11
3	Induced and triggered seismicity by immediate stress transfer and delayed fluid migration in a fractured geothermal reservoir at Pohang, South Korea. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 153, 105098.	2.6	12
4	Coupled Hydromechanical Modeling of Induced Seismicity From CO ₂ Injection in the Illinois Basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	12
5	The propagation and interaction of cracks under freeze-thaw cycling in rock-like material. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 154, 105112.	2.6	18
6	The hydraulic fracturing with multiple influencing factors in carbonate fracture-cavity reservoirs. <i>Computers and Geotechnics</i> , 2022, 147, 104773.	2.3	16
7	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
8	Hydro-mechanical modeling of the first and second hydraulic stimulations in a fractured geothermal reservoir in Pohang, South Korea. <i>Geothermics</i> , 2021, 89, 101982.	1.5	14
9	Discrete Dilatant Pathway Modeling of Gas Migration Through Compacted Bentonite Clay. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 137, 104569.	2.6	10
10	Estimation of stress and stress-induced permeability change in a geological nuclear waste repository in a thermo-hydrologically coupled simulation. <i>Computers and Geotechnics</i> , 2021, 129, 103866.	2.3	11
11	Modelling advective gas flow in compact bentonite: Lessons learnt from different numerical approaches. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 139, 104580.	2.6	11
12	Numerical study of the chemo-mechanical behavior of FEBEX bentonite in nuclear waste disposal based on the Barcelona expansive model. <i>Computers and Geotechnics</i> , 2021, 132, 103968.	2.3	9
13	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
14	The influence of stress anisotropy and stress shadow on frost cracking in rock. <i>Computers and Geotechnics</i> , 2021, 133, 103967.	2.3	19
15	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
16	Upscaling THM modeling from small-scale to full-scale in-situ experiments in the Callovo-Oxfordian claystone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 144, 104582.	2.6	19
17	Mesh generation and optimization from digital rock fractures based on neural style transfer. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 912-919.	3.7	3
18	Coupling dynamic in situ X-ray micro-imaging and indentation: A novel approach to evaluate micromechanics applied to oil shale. <i>Fuel</i> , 2021, 300, 120987.	3.4	8

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19	Field-scale fault reactivation experiments by fluid injection highlight aseismic leakage in caprock analogs: Implications for CO ₂ sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2021, 111, 103471.	2.3	22
20	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
21	Evaluation of faults stability due to passing seismic waves: Study case of groundwater level changes induced by the 2011 Tohoku earthquake in Central Japan. <i>Journal of Hydrology X</i> , 2021, 13, 100103.	0.8	1
22	Modelling the water injection induced fault slip and its application to in-situ stress estimation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 137, 104537.	2.6	11
23	Convergence of micro-geochemistry and micro-geomechanics towards understanding proppant shale rock interaction: A Caney shale case study in southern Oklahoma, USA. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104296.	2.1	7
24	Microscale Mechanical-Chemical Modeling of Granular Salt: Insights for Creep. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	1.4	6
25	The hydration of bentonite buffer material revealed by modeling analysis of a long-term in situ test. <i>Applied Clay Science</i> , 2020, 185, 105360.	2.6	18
26	Special Issue "Observations of Coupled Processes in Fractured Geological Media at Various Space and Time". <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4309-4311.	2.6	0
27	Influence of hysteretic stress path behavior on seal integrity during gas storage operation in a depleted reservoir. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 886-899.	3.7	19
28	Guest Editorial to the CouFrac 2018 Special Issue Coupled Thermal-Hydro-Mechanical-Chemical Processes in Fractured Media: Microscale to Macroscale Numerical Modeling. <i>Computational Geosciences</i> , 2020, 24, 1747-1749.	1.2	0
29	A study of thermal pressurization and potential for hydro-fracturing associated with nuclear waste disposal in argillaceous claystone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 136, 104536.	2.6	14
30	An international model comparison study of controlled fault activation experiments in argillaceous claystone at the Mont Terri Laboratory. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 136, 104505.	2.6	20
31	Microscale mechanical modeling of deformable geomaterials with dynamic contacts based on the numerical manifold method. <i>Computational Geosciences</i> , 2020, 24, 1783-1797.	1.2	21
32	Chemical-Mechanical Impacts of CO ₂ Intrusion Into Heterogeneous Caprock. <i>Water Resources Research</i> , 2020, 56, e2020WR027193.	1.7	26
33	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
34	Modeling of fluid injection-induced fault reactivation using coupled fluid flow and mechanical interface model. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104373.	2.6	16
35	Simulating three dimensional thermal cracking with TOUGH-FEMM. <i>Computers and Geotechnics</i> , 2020, 124, 103654.	2.3	16
36	Modeling of thermal pressurization in tight claystone using sequential THM coupling: Benchmarking and validation against in-situ heating experiments in CO _x claystone. <i>Tunnelling and Underground Space Technology</i> , 2020, 103, 103428.	3.0	14

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37	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
38	Estimating perturbed stress from 3-D borehole displacements induced by fluid injection in fractured or faulted shales. <i>Geophysical Journal International</i> , 2020, 221, 1684-1695.	1.0	15
39	Temperature response and brine availability to heated boreholes in bedded salt. <i>Vadose Zone Journal</i> , 2020, 19, e20019.	1.3	3
40	Finite volume modeling of coupled thermo-hydro-mechanical processes with application to brine migration in salt. <i>Computational Geosciences</i> , 2020, 24, 1751-1765.	1.2	14
41	Lattice modeling of excavation damage in argillaceous clay formations: Influence of deformation and strength anisotropy. <i>Tunnelling and Underground Space Technology</i> , 2020, 98, 103196.	3.0	11
42	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
43	TOUGH-Based Hydraulic Fracturing Models. , 2020, , 203-226.		1
44	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
45	The Influence of an Interlayer on Dual Hydraulic Fractures Propagation. <i>Energies</i> , 2020, 13, 555.	1.6	4
46	A mathematical model for fault activation by water injection. <i>Lecture Notes in Civil Engineering</i> , 2020, , 775-780.	0.3	0
47	Using geodetic data in geothermal areas. <i>The Leading Edge</i> , 2020, 39, 883-892.	0.4	0
48	Deep Fracture Zone Reactivation During CO ₂ Storage at In Salah (Algeria) – A Review of Recent Modeling Studies. <i>Springer Series in Geomechanics and Geoengineering</i> , 2019, , 394-401.	0.0	1
49	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
50	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
51	Revisiting the Analytical Solutions of Heat Transport in Fractured Reservoirs Using a Generalized Multirate Memory Function. <i>Water Resources Research</i> , 2019, 55, 1405-1428.	1.7	15
52	Induced seismicity in geologic carbon storage. <i>Solid Earth</i> , 2019, 10, 871-892.	1.2	74
53	Mathematical Modelling of Fault Reactivation Induced by Water Injection. <i>Minerals (Basel)</i> , 2019, 9, 1078-1091.	0.8	11
54	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

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55	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
56	Joint opening or hydroshearing? Analyzing a fracture zone stimulation at Fenton Hill. <i>Geothermics</i> , 2019, 77, 83-98.	1.5	48
57	Field and Laboratory Studies of Geomechanical Response to the Injection of CO ₂ . , 2019, , 209-236.		13
58	Numerical Geomechanics Studies of Geological Carbon Storage (GCS). , 2019, , 237-252.		2
59	Thermal Processes During Geological Carbon Storage. , 2019, , 253-261.		0
60	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
61	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
62	Coupled Processes Modeling in Rock Salt and Crushed Salt Including Halite Solubility Constraints: Application to Disposal of Heat-Generating Nuclear Waste. <i>Transport in Porous Media</i> , 2018, 124, 159-182.	1.2	11
63	Continuum Modeling of Hydraulic Fracturing in Complex Fractured Rock Masses. , 2018, , 195-217.		9
64	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
65	Comparative modelling of the coupled thermalâ€“hydraulic-mechanical (THM) processes in a heated bentonite pellet column with hydration. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	19
66	Evaluation of the predictive capability of coupled thermo-hydro-mechanical models for a heated bentonite/clay system (HE-E) in the Mont Terri Rock Laboratory. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	21
67	Modeling of CO ₂ sequestration in coal seams: Role of CO ₂ â€“induced coal softening on injectivity, storage efficiency and caprock deformation. , 2017, 7, 562-578.		12
68	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
69	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
70	Modelling the Mont Terri HE-D experiment for the Thermalâ€“Hydraulicâ€“Mechanical response of a bedded argillaceous formation to heating. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	25
71	Coupled thermalâ€“hydrologicalâ€“mechanical modeling of CO ₂ -enhanced coalbed methane recovery. <i>International Journal of Coal Geology</i> , 2017, 179, 81-91.	1.9	49
72	TOUGHâ€“RBSN simulator for hydraulic fracture propagation within fractured media: Model validations against laboratory experiments. <i>Computers and Geosciences</i> , 2017, 108, 72-85.	2.0	19

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73	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
74	Thermal effects on geologic carbon storage. <i>Earth-Science Reviews</i> , 2017, 165, 245-256.	4.0	86
75	Revisiting the Fundamental Analytical Solutions of Heat and Mass Transfer: The Kernel of Multirate and Multidimensional Diffusion. <i>Water Resources Research</i> , 2017, 53, 9960-9979.	1.7	9
76	Effects of the distribution and evolution of the coefficient of friction along a fault on the assessment of the seismic activity associated with a hypothetical industrial-scale geologic CO ₂ sequestration operation. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 254-263.	2.3	4
77	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
78	Modeling fault activation and seismicity in geologic carbon storage and shale-gas fracturing: Under what conditions could a felt seismic event be induced?. , 2017, , .		1
79	Long-term thermal effects on injectivity evolution during CO ₂ storage. <i>International Journal of Greenhouse Gas Control</i> , 2017, 64, 314-322.	2.3	50
80	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
81	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
82	Modeling Ground Surface Uplift During CO ₂ Sequestration: The Case of in Salah, Algeria. <i>Energy Procedia</i> , 2017, 114, 3247-3256.	1.8	5
83	Field characterization of elastic properties across a fault zone reactivated by fluid injection. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6583-6598.	1.4	20
84	The effects of nearby fractures on hydraulically induced fracture propagation and permeability changes. <i>Engineering Geology</i> , 2017, 228, 197-213.	2.9	29
85	Fully Coupled Hydro-Thermal-Mechanical Modeling of Brine Migration in Salt for Heat-Generating Nuclear Waste. , 2017, , .		0
86	Fault Reactivation and Seismicity Associated with Shale-Gas Fracturing and Geologic Carbon Storageâ€”A Comparison from Recent Modeling Studies. , 2017, , .		1
87	Inverse modeling of ground surface uplift and pressure with iTOUGH-PEST and TOUGH-FLAC: The case of CO ₂ injection at In Salah, Algeria. <i>Computers and Geosciences</i> , 2017, 108, 98-109.	2.0	33
88	Extension of TOUGH-FLAC to the finite strain framework. <i>Computers and Geosciences</i> , 2017, 108, 64-71.	2.0	20
89	An overview of TOUGH-based geomechanics models. <i>Computers and Geosciences</i> , 2017, 108, 56-63.	2.0	49
90	Fully coupled hydro-mechanical numerical manifold modeling of porous rock with dominant fractures. <i>Acta Geotechnica</i> , 2017, 12, 231-252.	2.9	48

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91	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
92	Thermal-hydraulic-mechanical modeling of a large-scale heater test to investigate rock salt and crushed salt behavior under repository conditions for heat-generating nuclear waste. <i>Computers and Geotechnics</i> , 2016, 77, 120-133.	2.3	16
93	Coupled geomechanics and flow modeling of thermally induced compaction in heavy oil diatomite reservoirs under cyclic steaming. <i>Journal of Petroleum Science and Engineering</i> , 2016, 147, 474-484.	2.1	12
94	Fault activation and induced seismicity in geological carbon storage – Lessons learned from recent modeling studies. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 789-804.	3.7	150
95	Effects of in situ stress measurement uncertainties on assessment of predicted seismic activity and risk associated with a hypothetical industrial-scale geologic CO ₂ sequestration operation. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 873-885.	3.7	10
96	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
97	Dynamic simulation of CO ₂ -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
98	Thermo-hydrogeomechanical modeling of vertical ground deformation during the operation of the Mutnovskii Geothermal Field. <i>Journal of Volcanology and Seismology</i> , 2016, 10, 138-149.	0.2	6
99	The Northwest Geysers EGS Demonstration Project, California – Part 2: Modeling and interpretation. <i>Geothermics</i> , 2016, 63, 120-138.	1.5	51
100	Temperature-Dependent Deformation Prediction of Oil Sand by Coupled Geomechanical and Fluid Flow Modeling. , 2016, , .		0
101	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
102	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
103	The Northwest Geysers EGS Demonstration Project, California. <i>Geothermics</i> , 2016, 63, 97-119.	1.5	74
104	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
105	Coupled Hydrological-mechanical Behavior Induced by CO ₂ Injection into the Saline Aquifer of CO ₂ CRC Otway Project. <i>Tunnel and Underground Space</i> , 2016, 26, 166-180.	0.1	1
106	Fractured rock stress-permeability relationships from in situ data and effects of temperature and chemical-mechanical couplings. <i>Geofluids</i> , 2015, 15, 48-66.	0.3	127
107	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
108	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

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109	Development of a discontinuous approach for modeling fluid flow in heterogeneous media using the numerical manifold method. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 1932-1952.	1.7	21
110	Fault reactivation during CO ₂ sequestration: Effects of well orientation on seismicity and leakage. , 2015, 5, 645-656.		60
111	Coupled Thermo-Hydro-Mechanical Behavior of Natural and Engineered Clay Barriers. <i>Developments in Clay Science</i> , 2015, 6, 329-355.	0.3	3
112	On the impact of temperatures up to 200 Â°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
113	Modeling of fault activation and seismicity by injection directly into a fault zone associated with hydraulic fracturing of shale-gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2015, 127, 377-386.	2.1	127
114	Integrated 3-D stress determination by hydraulic fracturing in multiple inclined boreholes beneath an underground cavern. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 75, 44-55.	2.6	8
115	An effective approach for modeling fluid flow in heterogeneous media using numerical manifold method. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 77, 459-476.	0.9	17
116	Coupled hydro-mechanical processes and fault reactivation induced by Co2 Injection in a three-layer storage formation. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 432-448.	2.3	50
117	Thermal and capillary effects on the caprock mechanical stability at In Salah, Algeria. , 2015, 5, 449-461.		37
118	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
119	Long-term modeling of the thermalâ€“hydraulicâ€“mechanical response of a generic salt repository for heat-generating nuclear waste. <i>Engineering Geology</i> , 2015, 193, 198-211.	2.9	42
120	Comparison of two simulators to investigate thermalâ€“hydraulicâ€“mechanical processes related to nuclear waste isolation in saliferous formations. <i>Computers and Geotechnics</i> , 2015, 66, 219-229.	2.3	15
121	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
122	Degradation of the mechanical properties imaged by seismic tomography during an EGS creation at The Geysers (California) and geomechanical modeling. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 240, 82-94.	0.7	11
123	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
124	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
125	Coupled THM Modeling of Hydroshearing Stimulation in Tight Fractured Volcanic Rock. <i>Transport in Porous Media</i> , 2015, 108, 131-150.	1.2	55
126	Coupled Thermal-Hydrological-Mechanical Behavior of Rock Mass Surrounding Cavern Thermal Energy Storage. <i>Tunnel and Underground Space</i> , 2015, 25, 155-167.	0.1	2

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127	Effects of Hydrological Condition on the Coupled Thermal-Hydrological-Mechanical Behavior of Rock Mass Surrounding Cavern Thermal Energy Storage. Tunnel and Underground Space, 2015, 25, 168-185.	0.1	0
128	Dynamic modeling of injection-induced fault reactivation and ground motion and impact on surface structures and human perception. Energy Procedia, 2014, 63, 3379-3389.	1.8	4
129	Effects of fault zone architecture on earthquake magnitude and gas leakage related to CO ₂ injection in a multi-layered sedimentary system. , 2014, 4, 99-120.		60
130	Energý-based numerical manifold seepage analysis with an efficient scheme to locate the phreatic surface. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 1633-1650.	1.7	36
131	Sensitivity analysis for fault reactivation in potential CO ₂ -EOR site with multi-layers of permeable and impermeable formations. Geosystem Engineering, 2014, 17, 253-263.	0.7	5
132	TOUGHâ€RDCA modeling of multiple fracture interactions in caprock during CO ₂ injection into a deep brine aquifer. Computers and Geosciences, 2014, 65, 24-36.	2.0	34
133	An Approach for Modeling Rock Discontinuous Mechanical Behavior Under Multiphase Fluid Flow Conditions. Rock Mechanics and Rock Engineering, 2014, 47, 589-603.	2.6	35
134	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
135	ISRM Suggested Method for Step-Rate Injection Method for Fracture In-Situ Properties (SIMFIP): Using a 3-Components Borehole Deformation Sensor. Rock Mechanics and Rock Engineering, 2014, 47, 303-311.	2.6	53
136	Operator matrix and non-uniqueness of Beltramiâ€Schaefer stress functions. Acta Mechanica, 2014, 225, 1761-1768.	1.1	0
137	A Discontinuous Cellular Automaton Method for Modeling Rock Fracture Propagation and Coalescence Under Fluid Pressurization Without Remeshing. Rock Mechanics and Rock Engineering, 2014, 47, 2183-2198.	2.6	8
138	Reservoir structure and properties from geomechanical modeling and microseismicity analyses associated with an enhanced geothermal system at The Geysers, California. Geothermics, 2014, 51, 460-469.	1.5	35
139	Geomechanical effects on CO ₂ leakage through fault zones during large-scale underground injection. International Journal of Greenhouse Gas Control, 2014, 20, 117-131.	2.3	133
140	Model evaluation of geochemically induced swelling/shrinkage in argillaceous formations for nuclear waste disposal. Applied Clay Science, 2014, 97-98, 24-32.	2.6	14
141	The effects of lateral property variations on fault-zone reactivation by fluid pressurization: Application to CO ₂ pressurization effects within major and undetected fault zones. Journal of Structural Geology, 2014, 62, 97-108.	1.0	34
142	The impacts of mechanical stress transfers caused by hydromechanical and thermal processes on fault stability during hydraulic stimulation in a deep geothermal reservoir. International Journal of Rock Mechanics and Minings Sciences, 2014, 72, 149-163.	2.6	58
143	CO ₂ storage and potential fault instability in the St. Lawrence Lowlands sedimentary basin (Quebec, Tj ETQq1 1 0.784314 rgBT /Ovele Greenhouse Gas Control, 2014, 22, 88-110.	2.3	27
144	Hydro-mechanical model for wetting/drying and fracture development in geomaterials. Computers and Geosciences, 2014, 65, 13-23.	2.0	54

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145	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
146	Long term impacts of cold CO ₂ injection on the caprock integrity. <i>International Journal of Greenhouse Gas Control</i> , 2014, 24, 1-13.	2.3	93
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