Daniel Vogler

List of Publications by Year
in descending order

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26 papers	651 citations	623734 14 h-index	580821 25 g-index
30 all docs	30 docs citations	30 times ranked	553 citing authors

#	Article	IF	Citations
1	Permeability Evolution in Natural Fractures Subject to Cyclic Loading and Gouge Formation. Rock Mechanics and Rock Engineering, 2016, 49, 3463-3479.	5.4	98
2	Experiments and Simulations of Fully Hydroâ€Mechanically Coupled Response of Rough Fractures Exposed to Highâ€Pressure Fluid Injection. Journal of Geophysical Research: Solid Earth, 2018, 123, 1186-1200.	3.4	75
3	A comparison of tensile failure in 3D-printed and natural sandstone. Engineering Geology, 2017, 226, 221-235.	6.3	62
4	Comparison of Surface Properties in Natural and Artificially Generated Fractures in a Crystalline Rock. Rock Mechanics and Rock Engineering, 2017, 50, 2891-2909.	5.4	45
5	Numerical Simulations and Validation of Contact Mechanics in a Granodiorite Fracture. Rock Mechanics and Rock Engineering, 2018, 51, 2805-2824.	5.4	43
6	Simulating electropulse fracture of granitic rock. International Journal of Rock Mechanics and Minings Sciences, 2020, 128, 104238.	5.8	39
7	3D non-conforming mesh model for flow in fractured porous media using Lagrange multipliers. Computers and Geosciences, 2019, 132, 42-55.	4.2	32
8	On the direct measurement of shear moduli in transversely isotropic rocks using the uniaxial compression test. International Journal of Rock Mechanics and Minings Sciences, 2019, 113, 220-240.	5.8	32
9	Heat depletion in sedimentary basins and its effect on the design and electric power output of CO2 Plume Geothermal (CPG) systems. Renewable Energy, 2021, 172, 1393-1403.	8.9	30
10	Compressive and Tensile Behavior of 3D-Printed and Natural Sandstones. Transport in Porous Media, 2019, 129, 559-581.	2.6	24
11	Thermally driven fracture aperture variation in naturally fractured granites. Geothermal Energy, 2019, 7, .	1.9	23
12	A numerical investigation into key factors controlling hard rock excavation via electropulse stimulation. Journal of Rock Mechanics and Geotechnical Engineering, 2020, 12, 793-801.	8.1	22
13	Noâ€Flow Fraction (NFF) Permeability Model for Rough Fractures Under Normal Stress. Water Resources Research, 2021, 57, e2020WR029080.	4.2	18
14	Simulation of rock failure modes in thermal spallation drilling. Acta Geotechnica, 2020, 15, 2327-2340.	5.7	16
15	Permeability Impairment and Salt Precipitation Patterns During CO₂ Injection Into Single Natural Brineâ€Filled Fractures. Water Resources Research, 2020, 56, e2020WR027213.	4.2	14
16	Verification of Coupled Hydraulic Fracturing Simulators Using Laboratory-Scale Experiments. Rock Mechanics and Rock Engineering, 2021, 54, 2881-2902.	5.4	12
17	Estimating fluid flow rates through fracture networks using combinatorial optimization. Advances in Water Resources, 2018, 122, 85-97.	3.8	10
18	Simulation of hydro-mechanically coupled processes in rough rock fractures using an immersed boundary method and variational transfer operators. Computational Geosciences, 2019, 23, 1125-1140.	2.4	10

#	Article	IF	Citations
19	Simulating Plasma Formation in Pores under Short Electric Pulses for Plasma Pulse Geo Drilling (PPGD). Energies, 2021, 14, 4717.	3.1	10
20	A hierarchy of models for simulating experimental results from a 3D heterogeneous porous medium. Advances in Water Resources, 2018, 114, 149-163.	3.8	6
21	Modelling of hydro-mechanical processes in heterogeneous fracture intersections using a fictitious domain method with variational transfer operators. Computational Geosciences, 2020, 24, 1799-1814.	2.4	6
22	On the applicability of connectivity metrics to rough fractures under normal stress. Advances in Water Resources, 2022, 161, 104122.	3.8	5
23	Contact between rough rock surfaces using a dual mortar method. International Journal of Rock Mechanics and Minings Sciences, 2020, 133, 104414.	5.8	4
24	Numerical Modeling of the Effects of Pore Characteristics on the Electric Breakdown of Rock for Plasma Pulse Geo Drilling. Energies, 2022, 15, 250.	3.1	4
25	Flow-through Drying during CO2 Injection into Brine-filled Natural Fractures: A Tale of Effective Normal Stress. International Journal of Greenhouse Gas Control, 2021, 109, 103378.	4.6	1
26	Laboratory Fracking Experiments for Verifying Numerical Simulation Codes. , 2018, , .		1