

# Martin O Saar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4726913/publications.pdf>

Version: 2024-02-01

123  
papers

5,195  
citations

94433

37  
h-index

102487

66  
g-index

134  
all docs

134  
docs citations

134  
times ranked

4800  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Using pyrosequencing to shed light on deep mine microbial ecology. BMC Genomics, 2006, 7, 57.   | 2.8  | 405       |
| 2  | Permeability-porosity relationship in vesicular basalts. Geophysical Research Letters, 1999, 26, 111-114.   | 4.0  | 266       |
| 3  | Numerical models of the onset of yield strength in crystal-melt suspensions. Earth and Planetary Science Letters, 2001, 187, 367-379.   | 4.4  | 177       |
| 4  | Review: Geothermal heat as a tracer of large-scale groundwater flow and as a means to determine permeability fields. Hydrogeology Journal, 2011, 19, 31-52.                                       | 2.1  | 172       |
| 5  | Seismicity induced by seasonal groundwater recharge at Mt. Hood, Oregon. Earth and Planetary Science Letters, 2003, 214, 605-618.   | 4.4  | 168       |
| 6  | Combining geothermal energy capture with geologic carbon dioxide sequestration. Geophysical Research Letters, 2011, 38, n/a-n/a.  | 4.0  | 166       |
| 7  | Depth dependence of permeability in the Oregon Cascades inferred from hydrogeologic, thermal, seismic, and magmatic modeling constraints. Journal of Geophysical Research, 2004, 109, .           | 3.3  | 161       |
| 8  | Coupling carbon dioxide sequestration with geothermal energy capture in naturally permeable, porous geologic formations: Implications for CO2 sequestration. Energy Procedia, 2011, 4, 2206-2213. | 1.8  | 139       |
| 9  | The seismo-hydromechanical behavior during deep geothermal reservoir stimulations: open questions tackled in a decameter-scale in situ stimulation experiment. Solid Earth, 2018, 9, 115-137.     | 2.8  | 126       |
| 10 | A comparison of electric power output of CO2 Plume Geothermal (CPG) and brine geothermal systems for varying reservoir conditions. Applied Energy, 2015, 140, 365-377.                            | 10.1 | 115       |
| 11 | Did melting glaciers cause volcanic eruptions in eastern California? Probing the mechanics of dike formation. Journal of Geophysical Research, 2004, 109, n/a-n/a.                                | 3.3  | 103       |
| 12 | Accelerating Lattice Boltzmann Fluid Flow Simulations Using Graphics Processors. , 2009, , .  |      | 103       |
| 13 | On the importance of the thermosiphon effect in CPG (CO2 plume geothermal) power systems. Energy, 2014, 69, 409-418.  | 8.8  | 97        |
| 14 | Experimental dissolution of dolomite by CO2-charged brine at 100°C and 150bar: Evolution of porosity, permeability, and reactive surface area. Chemical Geology, 2014, 380, 145-160.              | 3.3  | 94        |
| 15 | A new partial-bounceback lattice-Boltzmann method for fluid flow through heterogeneous media. Computers and Geosciences, 2009, 35, 1186-1193.   | 4.2  | 92        |
| 16 | The Effects of High Heating Rate and High Temperature on the Rock Strength: Feasibility Study of a Thermally Assisted Drilling Method. Rock Mechanics and Rock Engineering, 2018, 51, 2957-2964.  | 5.4  | 88        |
| 17 | CO2 sequestration in feldspar-rich sandstone: Coupled evolution of fluid chemistry, mineral reaction rates, and hydrogeochemical properties. Geochimica Et Cosmochimica Acta, 2015, 160, 132-154. | 3.9  | 87        |
| 18 | Brine displacement by CO2, energy extraction rates, and lifespan of a CO2-limited CO2-Plume Geothermal (CPG) system with a horizontal production well. Geothermics, 2015, 55, 182-194.            | 3.4  | 78        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Combining natural gas recovery and CO <sub>2</sub> -based geothermal energy extraction for electric power generation. <i>Applied Energy</i> , 2020, 269, 115012.  | 10.1 | 70        |
| 20 | Seasonal seismicity at western United States volcanic centers. <i>Earth and Planetary Science Letters</i> , 2005, 240, 307-321.   | 4.4  | 68        |
| 21 | Nanoscale constraints on porosity generation and fluid flow during serpentinization. <i>Geology</i> , 2016, 44, 103-106.  | 4.4  | 68        |
| 22 | Continuum percolation for randomly oriented soft-core prisms. <i>Physical Review E</i> , 2002, 65, 056131.  | 2.1  | 67        |
| 23 | Permeability, porosity, and mineral surface area changes in basalt cores induced by reactive transport of CO <sub>2</sub> -rich brine. <i>Water Resources Research</i> , 2017, 53, 1908-1927.   | 4.2  | 65        |
| 24 | Mode I fracture growth in anisotropic rocks: Theory and experiment. <i>International Journal of Solids and Structures</i> , 2020, 195, 74-90.   | 2.7  | 65        |
| 25 | Accelerating geoscience and engineering system simulations on graphics hardware. <i>Computers and Geosciences</i> , 2009, 35, 2353-2364.  | 4.2  | 58        |
| 26 | Magnetotelluric Image of Transcrustal Magmatic System Beneath the Tulu Moyo Geothermal Prospect in the Ethiopian Rift. <i>Geophysical Research Letters</i> , 2018, 45, 12,847.  | 4.0  | 58        |
| 27 | Hydraulic stimulation and fluid circulation experiments in underground laboratories: Stepping up the scale towards engineered geothermal systems. <i>Geomechanics for Energy and the Environment</i> , 2020, 24, 100175.                | 2.5  | 55        |
| 28 | DBCcreate: A SUPCRT92-based program for producing EQ3/6, TOUGHREACT, and GWB thermodynamic databases at user-defined T and P. <i>Computers and Geosciences</i> , 2013, 51, 415-417.   | 4.2  | 53        |
| 29 | Whole rock basalt alteration from CO <sub>2</sub> -rich brine during flow-through experiments at 150 °C and 150 bar. <i>Chemical Geology</i> , 2017, 453, 92-110.   | 3.3  | 52        |
| 30 | A dimensionless number describing the effects of recharge and geometry on discharge from simple karstic aquifers. <i>Water Resources Research</i> , 2009, 45, .   | 4.2  | 51        |
| 31 | Silica-Encapsulated DNA-Based Tracers for Aquifer Characterization. <i>Environmental Science &amp; Technology</i> , 2018, 52, 12142-12152.  | 10.0 | 50        |
| 32 | Modified semi-circular bend test to determine the fracture toughness of anisotropic rocks. <i>Engineering Fracture Mechanics</i> , 2019, 213, 153-171.  | 4.3  | 50        |
| 33 | Mechanisms of heat exchange between water and rock in karst conduits. <i>Water Resources Research</i> , 2011, 47, .   | 4.2  | 47        |
| 34 | An overview of computational methods for chemical equilibrium and kinetic calculations for geochemical and reactive transport modeling. <i>Pure and Applied Chemistry</i> , 2017, 89, 597-643.  | 1.9  | 45        |
| 35 | Quantifying magmatic, crustal, and atmospheric helium contributions to volcanic aquifers using all stable noble gases: Implications for magmatism and groundwater flow. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a. | 2.5  | 43        |
| 36 | Interpolated lattice Boltzmann boundary conditions for surface reaction kinetics. <i>Physical Review E</i> , 2010, 82, 066703.  | 2.1  | 43        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | A methodology to determine the elastic properties of anisotropic rocks from a single uniaxial compression test. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2019, 11, 1166-1183.   | 8.1  | 42        |
| 38 | Multifluid geo-energy systems: Using geologic CO <sub>2</sub> storage for geothermal energy production and grid-scale energy storage in sedimentary basins. , 2016, 12, 678-696.   |      | 41        |
| 39 | High performance reactive transport simulations examining the effects of thermal, hydraulic, and chemical (THC) gradients on fluid injectivity at carbonate CCUS reservoir scales. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 285-301. | 4.6  | 39        |
| 40 | Three thousand years of extreme rainfall events recorded in stalagmites from Spring Valley Caverns, Minnesota. <i>Earth and Planetary Science Letters</i> , 2010, 300, 46-54.  | 4.4  | 38        |
| 41 | Magma yield stress and permeability: Insights from multiphase percolation theory. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 1011-1019.  | 2.1  | 37        |
| 42 | Performance analysis of single-phase, multiphase, and multicomponent lattice-Boltzmann fluid flow simulations on GPU clusters. <i>Concurrency Computation Practice and Experience</i> , 2011, 23, 332-350.   | 2.2  | 36        |
| 43 | Tomographic Reservoir Imaging with DNA-Labeled Silica Nanotracers: The First Field Validation. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13681-13689.  | 10.0 | 35        |
| 44 | Field Comparison of DNA-Labeled Nanoparticle and Solute Tracer Transport in a Fractured Crystalline Rock. <i>Water Resources Research</i> , 2019, 55, 6577-6595.   | 4.2  | 35        |
| 45 | On the directional dependency of Mode I fracture toughness in anisotropic rocks. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 107, 102494.  | 4.7  | 35        |
| 46 | Internal consistency in aqueous geochemical data revisited: Applications to the aluminum system. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 216-234.  | 3.9  | 33        |
| 47 | Numerical study of the effects of permeability heterogeneity on density-driven convective mixing during CO <sub>2</sub> dissolution storage. <i>International Journal of Greenhouse Gas Control</i> , 2013, 19, 160-173.                                       | 4.6  | 32        |
| 48 | Permeability Reduction Produced by Grain Reorganization and Accumulation of Exsolved CO <sub>2</sub> during Geologic Carbon Sequestration: A New CO <sub>2</sub> Trapping Mechanism. <i>Environmental Science &amp; Technology</i> , 2013, 47, 242-251.        | 10.0 | 32        |
| 49 | 3D non-conforming mesh model for flow in fractured porous media using Lagrange multipliers. <i>Computers and Geosciences</i> , 2019, 132, 42-55.   | 4.2  | 32        |
| 50 | On the direct measurement of shear moduli in transversely isotropic rocks using the uniaxial compression test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 113, 220-240.   | 5.8  | 32        |
| 51 | A combined thermo-mechanical drilling technology for deep geothermal and hard rock reservoirs. <i>Geothermics</i> , 2020, 85, 101771.  | 3.4  | 32        |
| 52 | Numerical models of stiffness and yield stress growth in crystal-melt suspensions. <i>Earth and Planetary Science Letters</i> , 2008, 267, 32-44.  | 4.4  | 30        |
| 53 | Macroscale lattice-Boltzmann methods for low Peclet number solute and heat transport in heterogeneous porous media. <i>Water Resources Research</i> , 2010, 46, .  | 4.2  | 30        |
| 54 | Process length scales and longitudinal damping in karst conduits. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3  | 30        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Heat depletion in sedimentary basins and its effect on the design and electric power output of CO2 Plume Geothermal (CPG) systems. <i>Renewable Energy</i> , 2021, 172, 1393-1403.           | 8.9  | 30        |
| 56 | Increased Power Generation due to Exothermic Water Exsolution in CO2 Plume Geothermal (CPG) Power Plants. <i>Geothermics</i> , 2020, 88, 101865.   | 3.4  | 28        |
| 57 | Thermal damping and retardation in karst conduits. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 137-157.   | 4.9  | 27        |
| 58 | CO2-Plume Geothermal (CPG) Heat Extraction in Multi-layered Geologic Reservoirs. <i>Energy Procedia</i> , 2014, 63, 7631-7643.   | 1.8  | 26        |
| 59 | Demonstration of thermal borehole enlargement to facilitate controlled reservoir engineering for deep geothermal, oil or gas systems. <i>Applied Energy</i> , 2018, 212, 1501-1509.          | 10.1 | 26        |
| 60 | Numerical analysis and optimization of the performance of CO2-Plume Geothermal (CPG) production wells and implications for electric power generation. <i>Geothermics</i> , 2022, 98, 102270. | 3.4  | 26        |
| 61 | Statistically reconstructing continuous isotropic and anisotropic two-phase media while preserving macroscopic material properties. <i>Physical Review E</i> , 2011, 83, 026706.             | 2.1  | 25        |
| 62 | Effects of permeability fields on fluid, heat, and oxygen isotope transport in extensional detachment systems. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 1493-1522.            | 2.5  | 25        |
| 63 | Geothermal Energy Production at Geologic CO2 Sequestration sites: Impact of Thermal Drawdown on Reservoir Pressure. <i>Energy Procedia</i> , 2013, 37, 6625-6635.                            | 1.8  | 24        |
| 64 | The value of bulk energy storage for reducing CO2 emissions and water requirements from regional electricity systems. <i>Energy Conversion and Management</i> , 2019, 181, 674-685.          | 9.2  | 24        |
| 65 | Thermally driven fracture aperture variation in naturally fractured granites. <i>Geothermal Energy</i> , 2019, 7, .  | 1.9  | 23        |
| 66 | Accelerating Reactive Transport Modeling: On-Demand Machine Learning Algorithm for Chemical Equilibrium Calculations. <i>Transport in Porous Media</i> , 2020, 133, 161-204.                 | 2.6  | 23        |
| 67 | Quantifying the effects of glacier conduit geometry and recharge on proglacial hydrograph form. <i>Journal of Hydrology</i> , 2012, 414-415, 59-71.  | 5.4  | 22        |
| 68 | A numerical investigation into key factors controlling hard rock excavation via electropulse stimulation. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 793-801. | 8.1  | 22        |
| 69 | Experimental Observation of Permeability Changes In Dolomite at CO <sub>2</sub> Sequestration Conditions. <i>Environmental Science &amp; Technology</i> , 2014, 48, 140203132426009.         | 10.0 | 21        |
| 70 | High-Resolution Temporo-Ensemble PIV to Resolve Pore-Scale Flow in 3D-Printed Fractured Porous Media. <i>Transport in Porous Media</i> , 2019, 129, 467-483.                                 | 2.6  | 21        |
| 71 | Review: Induced Seismicity During Geoenergy Development—A Hydromechanical Perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .                                    | 3.4  | 21        |
| 72 | Integrating CO2 Storage with Geothermal Resources for Dispatchable Renewable Electricity. <i>Energy Procedia</i> , 2014, 63, 7619-7630.  | 1.8  | 20        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Integrated magnetotelluric and petrological analysis of felsic magma reservoirs: Insights from Ethiopian rift volcanoes. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116765.                             | 4.4  | 19        |
| 74 | No-Flow Fraction (NFF) Permeability Model for Rough Fractures Under Normal Stress. <i>Water Resources Research</i> , 2021, 57, e2020WR029080.  | 4.2  | 18        |
| 75 | On the validation of mixed-mode I/II crack growth theories for anisotropic rocks. <i>International Journal of Solids and Structures</i> , 2022, 241, 111484.   | 2.7  | 18        |
| 76 | A Hybrid Geothermal Energy Conversion Technology - A Potential Solution for Production of Electricity from Shallow Geothermal Resources. <i>Energy Procedia</i> , 2017, 114, 7107-7117.                              | 1.8  | 17        |
| 77 | Multi-disciplinary characterizations of the BedrettoLab – a new underground geoscience research facility. <i>Solid Earth</i> , 2022, 13, 301-322.  | 2.8  | 17        |
| 78 | Computational methods for reactive transport modeling: An extended law of mass-action, xLMA, method for multiphase equilibrium calculations. <i>Advances in Water Resources</i> , 2016, 96, 405-422.                 | 3.8  | 16        |
| 79 | Simulation of rock failure modes in thermal spallation drilling. <i>Acta Geotechnica</i> , 2020, 15, 2327-2340.  | 5.7  | 16        |
| 80 | Enabling Gibbs energy minimization algorithms to use equilibrium constants of reactions in multiphase equilibrium calculations. <i>Chemical Geology</i> , 2016, 437, 170-181.  | 3.3  | 15        |
| 81 | TNT-NN: A Fast Active Set Method for Solving Large Non-Negative Least Squares Problems. <i>Procedia Computer Science</i> , 2017, 108, 755-764.   | 2.0  | 15        |
| 82 | Synchrotron-based pore-network modeling of two-phase flow in Nubian Sandstone and implications for capillary trapping of carbon dioxide. <i>International Journal of Greenhouse Gas Control</i> , 2020, 103, 103164. | 4.6  | 15        |
| 83 | Field test of a Combined Thermo-Mechanical Drilling technology. Mode I: Thermal spallation drilling. <i>Journal of Petroleum Science and Engineering</i> , 2020, 190, 107005.  | 4.2  | 15        |
| 84 | Field test of a Combined Thermo-Mechanical Drilling technology. Mode II: Flame-assisted rotary drilling. <i>Journal of Petroleum Science and Engineering</i> , 2020, 190, 106880.                                    | 4.2  | 15        |
| 85 | Quantification of mineral accessible surface area and flow-dependent fluid-mineral reactivity at the pore scale. <i>Chemical Geology</i> , 2021, 563, 120042.  | 3.3  | 15        |
| 86 | Minimum transmissivity and optimal well spacing and flow rate for high-temperature aquifer thermal energy storage. <i>Applied Energy</i> , 2021, 289, 116658.  | 10.1 | 15        |
| 87 | Flexible CO <sub>2</sub> -plume geothermal (CPG-F): Using geologically stored CO <sub>2</sub> to provide dispatchable power and energy storage. <i>Energy Conversion and Management</i> , 2022, 253, 115082.         | 9.2  | 15        |
| 88 | Toward a Spatiotemporal Understanding of Dolomite Dissolution in Sandstone by CO <sub>2</sub> -Enriched Brine Circulation. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12458-12466.                    | 10.0 | 14        |
| 89 | A lattice-Boltzmann study of permeability-porosity relationships and mineral precipitation patterns in fractured porous media. <i>Computational Geosciences</i> , 2020, 24, 1865-1882.                               | 2.4  | 14        |
| 90 | Combining brine or CO <sub>2</sub> geothermal preheating with low-temperature waste heat: A higher-efficiency hybrid geothermal power system. <i>Journal of CO<sub>2</sub> Utilization</i> , 2020, 42, 101323.       | 6.8  | 14        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Permeability Impairment and Salt Precipitation Patterns During CO <sub>2</sub> Injection Into Single Natural Brine-Filled Fractures. <i>Water Resources Research</i> , 2020, 56, e2020WR027213.               | 4.2 | 14        |
| 92  | Calculating thermophysical fluid properties during geothermal energy production with NESS and Reaktoro. <i>Geothermics</i> , 2017, 70, 146-154.   | 3.4 | 13        |
| 93  | Solute tracer test quantification of the effects of hot water injection into hydraulically stimulated crystalline rock. <i>Geothermal Energy</i> , 2020, 8, .   | 1.9 | 11        |
| 94  | Estimating fluid flow rates through fracture networks using combinatorial optimization. <i>Advances in Water Resources</i> , 2018, 122, 85-97.  | 3.8 | 10        |
| 95  | Simulation of hydro-mechanically coupled processes in rough rock fractures using an immersed boundary method and variational transfer operators. <i>Computational Geosciences</i> , 2019, 23, 1125-1140.      | 2.4 | 10        |
| 96  | The Effect of Mineral Dissolution on the Effective Stress Law for Permeability in a Tight Sandstone. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088346.   | 4.0 | 10        |
| 97  | Simulating Plasma Formation in Pores under Short Electric Pulses for Plasma Pulse Geo Drilling (PPGD). <i>Energies</i> , 2021, 14, 4717.  | 3.1 | 10        |
| 98  | The influence of thermal treatment on rock-bit interaction: a study of a combined thermo-mechanical drilling (CTMD) concept. <i>Geothermal Energy</i> , 2020, 8, .  | 1.9 | 10        |
| 99  | Implications of the redissociation phenomenon for mineral-buffered fluids and aqueous species transport at elevated temperatures and pressures. <i>Applied Geochemistry</i> , 2015, 55, 119-127.              | 3.0 | 9         |
| 100 | The value of CO <sub>2</sub> -Bulk energy storage with wind in transmission-constrained electric power systems. <i>Energy Conversion and Management</i> , 2021, 228, 113548.                                  | 9.2 | 9         |
| 101 | Sensitivity of Reservoir and Operational Parameters on the Energy Extraction Performance of Combined CO <sub>2</sub> -EGR-CPG Systems. <i>Energies</i> , 2021, 14, 6122.                                      | 3.1 | 9         |
| 102 | Coulomb criterion - bounding crustal stress limit and intact rock failure: Perspectives. <i>Powder Technology</i> , 2020, 374, 106-110.   | 4.2 | 8         |
| 103 | Developing Extensible Lattice-Boltzmann Simulators for General-Purpose Graphics-Processing Units. <i>Communications in Computational Physics</i> , 2013, 13, 867-879.   | 1.7 | 7         |
| 104 | Techno-economic analysis of Advanced Geothermal Systems (AGS). <i>Renewable Energy</i> , 2022, 186, 927-943.  | 8.9 | 7         |
| 105 | The Importance of Modeling Carbon Dioxide Transportation and Geologic Storage in Energy System Planning Tools. <i>Frontiers in Energy Research</i> , 2022, 10, .  | 2.3 | 7         |
| 106 | Improved Characterization of Small $\epsilon$ -for Jacob Pumping Test Analysis Methods. <i>Ground Water</i> , 2012, 50, 256-265.  | 1.3 | 6         |
| 107 | Modelling of hydro-mechanical processes in heterogeneous fracture intersections using a fictitious domain method with variational transfer operators. <i>Computational Geosciences</i> , 2020, 24, 1799-1814. | 2.4 | 6         |
| 108 | Using TNT-NN to unlock the fast full spatial inversion of large magnetic microscopy data sets. <i>Earth, Planets and Space</i> , 2019, 71, .  | 2.5 | 5         |



| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 109 | Benchmark study of simulators for thermo-hydraulic modelling of low enthalpy geothermal processes. <i>Geothermics</i> , 2021, 96, 102130.  | 3.4 | 5         |
| 110 | On the applicability of connectivity metrics to rough fractures under normal stress. <i>Advances in Water Resources</i> , 2022, 161, 104122.   | 3.8 | 5         |
| 111 | Contact between rough rock surfaces using a dual mortar method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 133, 104414.   | 5.8 | 4         |
| 112 | Accelerated reactive transport simulations in heterogeneous porous media using Reaktoro and Firedrake. <i>Computational Geosciences</i> , 2022, 26, 295-327.   | 2.4 | 4         |
| 113 | Numerical Modeling of the Effects of Pore Characteristics on the Electric Breakdown of Rock for Plasma Pulse Geo Drilling. <i>Energies</i> , 2022, 15, 250.  | 3.1 | 4         |
| 114 | Shear induced fluid flow path evolution in rough-wall fractures: A particle image velocimetry examination. <i>Journal of Hydrology</i> , 2022, 610, 127793.  | 5.4 | 3         |
| 115 | Corrigendum to "Hydraulic stimulation and fluid circulation experiments in underground laboratories: Stepping up the scale towards engineered geothermal systems" by Gischig et al. <a href="https://doi.org/10.1016/j.gete.2019.100175">https://doi.org/10.1016/j.gete.2019.100175</a> . <i>Geomechanics for Energy and the Environment</i> , 2020, 24, 100190. | 2.5 | 2         |
| 116 | Using $\text{CO}_2$ -Plume geothermal (CPG) energy technologies to support wind and solar power in renewable-heavy electricity systems. <i>Renewable and Sustainable Energy Transition</i> , 2022, 2, 100026.  | 2.9 | 2         |
| 117 | Lattice-Boltzmann Simulations of Carbonate Systems. , 2008, , .  |     | 1         |
| 118 | TNT: A Solver for Large Dense Least-Squares Problems that Takes Conjugate Gradient from Bad in Theory, to Good in Practice. , 2018, , .  |     | 1         |
| 119 | Flow-through Drying during CO <sub>2</sub> Injection into Brine-filled Natural Fractures: A Tale of Effective Normal Stress. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103378.   | 4.6 | 1         |
| 120 | On Reliable Prediction of Fracture Path in Anisotropic Rocks. <i>Procedia Structural Integrity</i> , 2022, 39, 792-800.  | 0.8 | 1         |
| 121 | Relating Darcy-Scale Chemical Reaction Order to Pore-Scale Spatial Heterogeneity. <i>Transport in Porous Media</i> , 2022, 144, 507-543.   | 2.6 | 1         |
| 122 | Corrigendum to "Thermal damping and retardation in karst conduits" published in <i>Hydrol. Earth Syst. Sci.</i> , 19, 137-157, 2015. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 451-451.   | 4.9 | 0         |
| 123 | Modelling Potential Geological CO <sub>2</sub> Storage Combined with CO <sub>2</sub> -Plume Geothermal CPG Energy Extraction in Switzerland. , 2022, , .   |     | 0         |