## benoit Cordonnier

List of Publications by Year in descending order

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304743 289244 1,709 41 22 40 citations h-index g-index papers 43 43 43 1322 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Predicting Fracture Network Development in Crystalline Rocks. Pure and Applied Geophysics, 2022, 179, 275-299.	1.9	6
2	4D Synchrotron X-ray Imaging of Grain Scale Deformation Mechanisms in a Seismogenic Gas Reservoir Sandstone During Axial Compaction. Rock Mechanics and Rock Engineering, 2022, 55, 4697-4715.	5 <b>.</b> 4	4
3	The influence of spatial resolution and noise on fracture network properties calculated from X-ray microtomography data. International Journal of Rock Mechanics and Minings Sciences, 2021, 147, 104922.	<b>5.</b> 8	6
4	Creep Burst Coincident With Faulting in Marble Observed in 4â€D Synchrotron Xâ€Ray Imaging Triaxial Compression Experiments. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020354.	3.4	9
5	Real Time 3D Observations of Portland Cement Carbonation at CO <sub>2</sub> Storage Conditions. Environmental Science & Conditions (2020, 54, 8323-8332).	10.0	21
6	Permeability Profiles Across the Crustâ€Mantle Sections in the Oman Drilling Project Inferred From Dry and Wet Resistivity Data. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018698.	3.4	16
7	Competition between slow slip and damage on and off faults revealed in 4D synchrotron imaging experiments. Tectonophysics, 2020, 782-783, 228437.	2.2	5
8	A new plesiosaurian from the Jurassic–Cretaceous transitional interval of the SlottsmÃ,ya Member (Volgian), with insights into the cranial anatomy of cryptoclidids using computed tomography. PeerJ, 2020, 8, e8652.	2.0	14
9	Volumetric and shear processes in crystalline rock approaching faulting. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16234-16239.	7.1	56
10	Synchrotron X-ray imaging in 4D: Multiscale failure and compaction localization in triaxially compressed porous limestone. Earth and Planetary Science Letters, 2019, 528, 115831.	4.4	35
11	Isolating the Factors That Govern Fracture Development in Rocks Throughout Dynamic In Situ Xâ€Ray Tomography Experiments. Geophysical Research Letters, 2019, 46, 11127-11135.	4.0	13
12	Dynamics of Microscale Precursors During Brittle Compressive Failure in Carrara Marble. Journal of Geophysical Research: Solid Earth, 2019, 124, 6121-6139.	3 <b>.</b> 4	39
13	The evolving energy budget of experimental faults within continental crust: Insights from in situ dynamic X-ray microtomography. Journal of Structural Geology, 2019, 123, 42-53.	2.3	11
14	Mixedâ€Mode Strain Localization Generated by Hydration Reaction at Crustal Conditions. Journal of Geophysical Research: Solid Earth, 2019, 124, 4507-4522.	3.4	15
15	Volumetric and Shear Strain Localization in Mt. Etna Basalt. Geophysical Research Letters, 2019, 46, 2425-2433.	4.0	19
16	Neutron Imaging of Cadmium Sorption and Transport in Porous Rocks. Frontiers in Earth Science, 2019, 7, .	1.8	7
17	Dynamic In Situ Three-Dimensional Imaging and Digital Volume Correlation Analysis to Quantify Strain Localization and Fracture Coalescence in Sandstone. Pure and Applied Geophysics, 2019, 176, 1083-1115.	1.9	57
18	Critical Evolution of Damage Toward Systemâ€Size Failure in Crystalline Rock. Journal of Geophysical Research: Solid Earth, 2018, 123, 1969-1986.	3.4	66

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19	Investigating the Onset of Strain Localization Within Anisotropic Shale Using Digital Volume Correlation of Timeâ€Resolved Xâ€Ray Microtomography Images. Journal of Geophysical Research: Solid Earth, 2018, 123, 7509-7528.	3.4	42
20	Effects of Confinement on Reactionâ€Induced Fracturing During Hydration of Periclase. Geochemistry, Geophysics, Geosystems, 2018, 19, 2661-2672.	2.5	35
21	Localized slip controlled by dehydration embrittlement of partly serpentinized dunites, Leka Ophiolite Complex, Norway. Earth and Planetary Science Letters, 2017, 463, 277-285.	4.4	11
22	Microscale characterization of rupture nucleation unravels precursors to faulting in rocks. Earth and Planetary Science Letters, 2017, 476, 69-78.	4.4	64
23	Conclusion: recommendations and findings of the RED SEED working group. Geological Society Special Publication, 2016, 426, 567-648.	1.3	12
24	A deformation rig for synchrotron microtomography studies of geomaterials under conditionsÂdown to 10 km depth in the Earth. Journal of Synchrotron Radiation, 2016, 23, 1030-1034.	2.4	63
25	Rheological flow laws for multiphase magmas: An empirical approach. Journal of Volcanology and Geothermal Research, 2016, 321, 158-170.	2.1	37
26	Rapid laccolith intrusion driven by explosive volcanic eruption. Nature Communications, 2016, 7, 13585.	12.8	70
27	Effects of crystallization and bubble nucleation on the seismic properties of magmas. Geochemistry, Geophysics, Geosystems, 2016, 17, 602-615.	2.5	11
28	Benchmarking lava-flow models. Geological Society Special Publication, 2016, 426, 425-445.	1.3	39
29	The Viscous to Brittle Transition in Crystal- and Bubble-Bearing Magmas. Frontiers in Earth Science, 2015, 3, .	1.8	25
30	Gas-driven filter pressing in magmas: Insights into in-situ melt segregation from crystal mushes. Geology, 2015, 43, 699-702.	4.4	88
31	Groundmass crystallisation and cooling rates of lava-like ignimbrites: the Grey's Landing ignimbrite, southern Idaho, USA. Bulletin of Volcanology, 2015, 77, 1.	3.0	18
32	Viscous heating in silicate melts: An experimental and numerical comparison. Journal of Geophysical Research, 2012, 117, .	3.3	35
33	The role of melt-fracture degassing in defusing explosive rhyolite eruptions at volcán Chaitén. Earth and Planetary Science Letters, 2012, 333-334, 63-69.	4.4	125
34	The viscous-brittle transition of crystal-bearing silicic melt: Direct observation of magma rupture and healing. Geology, 2012, 40, 611-614.	4.4	113
35	Influence of decompression rate on fragmentation processes: An experimental study. Journal of Volcanology and Geothermal Research, 2010, 193, 182-188.	2.1	16
36	Rheological properties of dome lavas: Case study of Unzen volcano. Earth and Planetary Science Letters, 2009, 279, 263-272.	4.4	101

#	Article	IF	CITATIONS
37	Seismogenic lavas and explosive eruption forecasting. Nature, 2008, 453, 507-510.	27.8	161
38	Viscous heating in rhyolite: An in situ experimental determination. Earth and Planetary Science Letters, 2008, 275, 121-126.	4.4	46
39	High-load, high-temperature deformation apparatus for synthetic and natural silicate melts. Review of Scientific Instruments, 2007, 78, 075102.	1.3	28
40	Non-Newtonian rheological law for highly crystalline dome lavas. Geology, 2007, 35, 843.	4.4	164
41	Synchrotron 4D X-Ray Imaging Reveals Strain Localization at the Onset of System-Size Failure in Porous Reservoir Rocks. Pure and Applied Geophysics, 0, , .	1.9	6