

Berend A Verberne

List of Publications by Year in descending order

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17
papers

899
citations

623188

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700
citing authors

#	ARTICLE	IF	CITATIONS
1	Frictional Properties and Microstructure of Calcite-Rich Fault Gouges Sheared at Sub-Seismic Sliding Velocities. <i>Pure and Applied Geophysics</i> , 2014, 171, 2617-2640.	0.8	139
2	Superplastic nanofibrous slip zones control seismogenic fault friction. <i>Science</i> , 2014, 346, 1342-1344.	6.0	109
3	Frictional Properties of Sedimentary Rocks and Natural Fault Gouge from the Longmen Shan Fault Zone, Sichuan, China. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 2767-2790.	1.1	107
4	Mechanical behavior and microstructure of simulated calcite fault gouge sheared at 200°C: Implications for natural faults in limestones. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8169-8196.	1.4	78
5	Nanocrystalline slip zones in calcite fault gouge show intense crystallographic preferred orientation: Crystal plasticity at sub-seismic slip rates at 180°C. <i>Geology</i> , 2013, 41, 863-866.	2.0	67
6	Effects of healing on the seismogenic potential of carbonate fault rocks: Experiments on samples from the Longmenshan Fault, Sichuan, China. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5479-5506.	1.4	63
7	Brittle and semibrittle creep of Tavel limestone deformed at room temperature. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4436-4459.	1.4	61
8	Interseismic re-strengthening and stabilization of carbonate faults by non-Dieterich healing under hydrothermal conditions. <i>Earth and Planetary Science Letters</i> , 2015, 423, 1-12.	1.8	58
9	Frictional Properties of Simulated Chlorite Gouge at Hydrothermal Conditions: Implications for Subduction Megathrusts. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4545-4565.	1.4	43
10	Deformation Behavior of Sandstones From the Seismogenic Groningen Gas Field: Role of Inelastic Versus Elastic Mechanisms. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5532-5558.	1.4	40
11	Inelastic Deformation of the Slochteren Sandstone: Stress-Strain Relations and Implications for Induced Seismicity in the Groningen Gas Field. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5254-5282.	1.4	39
12	Microscale cavitation as a mechanism for nucleating earthquakes at the base of the seismogenic zone. <i>Nature Communications</i> , 2017, 8, 1645.	5.8	23
13	Frictional properties of actinolite-chlorite gouge at hydrothermal conditions. <i>Tectonophysics</i> , 2020, 779, 228377.	0.9	17
14	Nanocrystalline Principal Slip Zones and Their Role in Controlling Crustal Fault Rheology. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 328.	0.8	16
15	The physics of fault friction: insights from experiments on simulated gouges at low shearing velocities. <i>Solid Earth</i> , 2020, 11, 2075-2095.	1.2	14
16	Intergranular Clay Films Control Inelastic Deformation in the Groningen Gas Reservoir: Evidence From Split-Cylinder Deformation Tests. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 12679-12702.	1.4	13
17	Flow-to-Friction Transition in Simulated Calcite Gouge: Experiments and Microphysical Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019970.	1.4	11