

Marie E S Violay

List of Publications by Year in descending order

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55
papers

1,486
citations

331259

21
h-index

329751

37
g-index

63
all docs

63
docs citations

63
times ranked

1381
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical characterization of fault rocks within the Opalinus Clay formation. <i>Scientific Reports</i> , 2022, 12, 4389.	1.6	3
2	On the scale dependence in the dynamics of frictional rupture: Constant fracture energy versus size-dependent breakdown work. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117442.	1.8	14
3	The Permeability of Porous Volcanic Rock Through the Brittle–Ductile Transition. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	4
4	Determination of Parameters Characteristic of Dynamic Weakening Mechanisms During Seismic Faulting in Cohesive Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	7
5	HighSTEPS: A High Strain Temperature Pressure and Speed Apparatus to Study Earthquake Mechanics. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2039-2052.	2.6	10
6	Experimental Plastic Reactivation of Pseudotachylite-Filled Shear Zones. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091538.	1.5	1
7	Brittle Faulting of Ductile Rock Induced by Pore Fluid Pressure Build-Up. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021331.	1.4	13
8	The mechanical behaviour and failure modes of volcanic rocks: a review. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	68
9	The Influence of Loading Path on Fault Reactivation: A Laboratory Perspective. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091466.	1.5	5
10	Thermal Weakening Friction During Seismic Slip: Experiments and Models With Heat Sources and Sinks. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020652.	1.4	8
11	Origin of the Co-Seismic Variations of Elastic Properties in the Crust: Insight From the Laboratory. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093619.	1.5	4
12	Effect of water on sandstone's fracture toughness and frictional parameters: Brittle strength constraints. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 147, 104916.	2.6	21
13	Earthquake Nucleation Along Faults With Heterogeneous Weakening Rate. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094901.	1.5	17
14	The Effects of Planetary and Stellar Parameters on Brittle Lithospheric Thickness. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006952.	1.5	3
15	Electrical conductivity of Icelandic deep geothermal reservoirs up to supercritical conditions: Insight from laboratory experiments. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106364.	0.8	15
16	Pore space properties in carbonate fault rocks of peninsular Italy. <i>Journal of Structural Geology</i> , 2020, 130, 103913.	1.0	21
17	Effect of Fluid Viscosity on Fault Reactivation and Coseismic Weakening. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018883.	1.4	16
18	Initial effective stress controls the nature of earthquakes. <i>Nature Communications</i> , 2020, 11, 5132.	5.8	47

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19	Hydraulic Transport Through Calcite Bearing Faults With Customized Roughness: Effects of Normal and Shear Loading. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019767.	1.4	17
20	Mechanical and hydraulic transport properties of transverse-isotropic Gneiss deformed under deep reservoir stress and pressure conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 130, 104235.	2.6	15
21	Effect of Fluid Viscosity on Earthquake Nucleation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087854.	1.5	10
22	Special Issue on Injection Induced Seismicity. <i>Geomechanics for Energy and the Environment</i> , 2020, 24, 100200.	1.2	0
23	Parametric analysis of the elastohydrodynamic lubrication efficiency on induced seismicity. <i>Geophysical Journal International</i> , 2020, 222, 517-525.	1.0	4
24	Effect of water and rock composition on re-strengthening of cohesive faults during the deceleration phase of seismic slip pulses. <i>Earth and Planetary Science Letters</i> , 2019, 522, 55-64.	1.8	20
25	Fault Reactivation During Fluid Pressure Oscillations: Transition From Stable to Unstable Slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10940-10953.	1.4	50
26	Can Precursory Moment Release Scale With Earthquake Magnitude? A View From the Laboratory. <i>Geophysical Research Letters</i> , 2019, 46, 12927-12937.	1.5	22
27	Constitutive Laws for Etnean Basement and Edifice Lithologies. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10074-10088.	1.4	1
28	Variations in Elastic and Electrical Properties of Crustal Rocks With Varying Degree of Microfracturation. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6376-6396.	1.4	12
29	Mechanical behaviour of fluid-lubricated faults. <i>Nature Communications</i> , 2019, 10, 1274.	5.8	46
30	Contrasting Mechanical and Hydraulic Properties of Wet and Dry Fault Zones in a Proposed Shale-Hosted Nuclear Waste Repository. <i>Geophysical Research Letters</i> , 2019, 46, 1357-1366.	1.5	21
31	Time-Dependent Deformations of Sandstone During Pore Fluid Pressure Oscillations: Implications for Natural and Induced Seismicity. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 801-821.	1.4	27
32	Do scaly clays control seismicity on faulted shale rocks?. <i>Earth and Planetary Science Letters</i> , 2018, 488, 59-67.	1.8	14
33	Frictional Properties of Opalinus Clay: Implications for Nuclear Waste Storage. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 157-175.	1.4	31
34	Anomalous V_p/V_s Ratios at Seismic Frequencies Might Evidence Highly Damaged Rocks in Subduction Zones. <i>Geophysical Research Letters</i> , 2018, 45, 12,210.	1.5	19
35	Dynamic weakening during earthquakes controlled by fluid thermodynamics. <i>Nature Communications</i> , 2018, 9, 3074.	5.8	48
36	Clumped isotope fractionation during phosphoric acid digestion of carbonates at 70 Å°C. <i>Chemical Geology</i> , 2017, 449, 1-14.	1.4	56

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37	From rock to magma and back again: The evolution of temperature and deformation mechanism in conduit margin zones. <i>Earth and Planetary Science Letters</i> , 2017, 463, 92-100.	1.8	54
38	Porosity evolution at the brittle-ductile transition in the continental crust: Implications for deep hydro-geothermal circulation. <i>Scientific Reports</i> , 2017, 7, 7705.	1.6	60
39	Dislocation Motion and the Microphysics of Flash Heating and Weakening of Faults during Earthquakes. <i>Crystals</i> , 2016, 6, 83.	1.0	6
40	G: Fracture energy, friction and dissipation in earthquakes. <i>Journal of Seismology</i> , 2016, 20, 1187-1205.	0.6	42
41	Frictional evolution, acoustic emissions activity, and off-fault damage in simulated faults sheared at seismic slip rates. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7490-7513.	1.4	56
42	Scaling in natural and laboratory earthquakes. <i>Geophysical Research Letters</i> , 2016, 43, 1504-1510.	1.5	59
43	An empirically based steady state friction law and implications for fault stability. <i>Geophysical Research Letters</i> , 2016, 43, 3263-3271.	1.5	35
44	Brittle versus ductile deformation as the main control of the deep fluid circulation in oceanic crust. <i>Geophysical Research Letters</i> , 2015, 42, 2767-2773.	1.5	51
45	Fast-moving dislocations trigger flash weakening in carbonate-bearing faults during earthquakes. <i>Scientific Reports</i> , 2015, 5, 16112.	1.6	61
46	Thermo-mechanical pressurization of experimental faults in cohesive rocks during seismic slip. <i>Earth and Planetary Science Letters</i> , 2015, 429, 1-10.	1.8	54
47	Ductile flow in sub-volcanic carbonate basement as the main control for edifice stability: New experimental insights. <i>Earth and Planetary Science Letters</i> , 2015, 430, 533-541.	1.8	22
48	Effect of glass on the frictional behavior of basalts at seismic slip rates. <i>Geophysical Research Letters</i> , 2014, 41, 348-355.	1.5	20
49	High temperature instruments and methods developed for supercritical geothermal reservoir characterisation and exploitation – The HiTI project. <i>Geothermics</i> , 2014, 49, 90-98.	1.5	27
50	Effect of water on the frictional behavior of cohesive rocks during earthquakes. <i>Geology</i> , 2014, 42, 27-30.	2.0	72
51	Electrical conductivity in a partially molten crust from measurements on metasedimentary enclaves. <i>Tectonophysics</i> , 2013, 586, 84-94.	0.9	11
52	Pore fluid in experimental calcite-bearing faults: Abrupt weakening and geochemical signature of co-seismic processes. <i>Earth and Planetary Science Letters</i> , 2013, 361, 74-84.	1.8	58
53	An experimental study of the brittle-ductile transition of basalt at oceanic crust pressure and temperature conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	82
54	A New Cell for Electrical Conductivity Measurement on Saturated Samples at Upper Crust Conditions. <i>Transport in Porous Media</i> , 2012, 91, 303-318.	1.2	7

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55	Petrophysical properties of the root zone of sheeted dikes in the ocean crust: A case study from Hole ODP/IODP 1256D, Eastern Equatorial Pacific. <i>Tectonophysics</i> , 2010, 493, 139-152.	0.9	18