

Christopher C Gerbi

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

457
citations

687363

13
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34
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34
docs citations

34
times ranked

422
citing authors

#	ARTICLE	IF	CITATIONS
1	Identifying deformed pseudotachylite and its influence on the strength and evolution of a crustal shear zone at the base of the seismogenic zone. <i>Tectonophysics</i> , 2012, 518-521, 63-83.	2.2	53
2	Implications of rapid, dike-fed pluton growth for host-rock strain rates and emplacement mechanisms. <i>Journal of Structural Geology</i> , 2004, 26, 583-594.	2.3	30
3	Legacy organochlorine pollutants in glacial watersheds: a review. <i>Environmental Sciences: Processes and Impacts</i> , 2017, 19, 1474-1483.	3.5	30
4	Use of U-Pb geochronology to identify successive, spatially overlapping tectonic episodes during Silurian-Devonian orogenesis in south-central Maine, USA. <i>Bulletin of the Geological Society of America</i> , 2007, 119, 1218-1231.	3.3	29
5	Computational homogenization and micromechanical analysis of textured polycrystalline materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 749-779.	6.6	29
6	Magnitude of weakening during crustal-scale shear zone development. <i>Journal of Structural Geology</i> , 2010, 32, 107-117.	2.3	28
7	The influence of crenulation cleavage development on the bulk elastic and seismic properties of phyllosilicate-rich rocks. <i>Earth and Planetary Science Letters</i> , 2011, 311, 212-224.	4.4	25
8	Softening the lower crust: Modes of syn-transport transposition around and adjacent to a deep crustal granulite nappe, Parry Sound domain, Grenville Province, Ontario, Canada. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	22
9	Computational analysis of nonlinear creep of polyphase aggregates: Influence of phase morphology. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6877-6906.	3.4	22
10	Effect of phase morphology on bulk strength for power-law materials. <i>Geophysical Journal International</i> , 2014, 200, 374-389.	2.4	16
11	Recrystallization fabrics of sheared quartz veins with a strong pre-existing crystallographic preferred orientation from a seismogenic shear zone. <i>Tectonophysics</i> , 2016, 682, 214-236.	2.2	16
12	Using zircon U-Pb ages and trace element chemistry to constrain the timing of metamorphic events, pegmatite dike emplacement, and shearing in the southern Parry Sound domain, Grenville Province, Canada. <i>Precambrian Research</i> , 2012, 192-195, 142-165.	2.7	15
13	The impact of temperature and crystal orientation fabric on the dynamics of mountain glaciers and ice streams. <i>Journal of Glaciology</i> , 2020, 66, 755-765.	2.2	14
14	The quartz $\beta \rightarrow \alpha$ phase transition: Does it drive damage and reaction in continental crust?. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116622.	4.4	14
15	Energy Partitioning, Dynamic Fragmentation, and Off-Fault Damage in the Earthquake Source Volume. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022616.	3.4	14
16	Influence of microscale weak zones on bulk strength. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4064-4077.	2.5	12
17	Microstructures in a shear margin: Jarvis Glacier, Alaska. <i>Journal of Glaciology</i> , 2021, 67, 1163-1176.	2.2	12
18	Seismic cycle feedbacks in a mid-crustal shear zone. <i>Journal of Structural Geology</i> , 2018, 112, 95-111.	2.3	11

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19	Coseismic damage runs deep in continental strike-slip faults. <i>Earth and Planetary Science Letters</i> , 2020, 539, 116226.	4.4	11
20	Evaluating the utility of a phase distribution parameter in calculating the bulk viscous strength of two-phase composites. <i>Journal of Structural Geology</i> , 2012, 39, 224-236.	2.3	9
21	The spin zone: Transient mid-crust permeability caused by coseismic brecciation. <i>Journal of Structural Geology</i> , 2016, 87, 47-63.	2.3	8
22	Heterogeneous amphibolite facies deformation of a granulite facies layered protolith: Matches Island shear system, Parry Sound domain, Grenville Province, Ontario, Canada. <i>Journal of Structural Geology</i> , 2011, 33, 875-890.	2.3	7
23	Timing and conditions of poly-phase metamorphism within the Twelve Mile Bay shear zone: implications for the evolution of mid-crustal decollement zones and western Grenville tectonics. <i>International Geology Review</i> , 2013, 55, 525-547.	2.1	6
24	Quartz fluid inclusion abundance and off-fault damage in a deeply exhumed, strike-slip, seismogenic fault. <i>Journal of Structural Geology</i> , 2020, 139, 104118.	2.3	6
25	The effect of microstructural and rheological heterogeneity on porphyroblast kinematics and bulk strength in porphyroblastic schists. <i>Tectonophysics</i> , 2013, 587, 63-78.	2.2	5
26	Macro- and microstructural analysis of the North Tea Lake Mylonite Zone: an extensional shear zone in the Central Gneiss Belt, Grenville Province, Ontario. <i>Canadian Journal of Earth Sciences</i> , 2015, 52, 1027-1044.	1.3	5
27	A novel tilt sensor for studying ice deformation: application to streaming ice on Jarvis Glacier, Alaska. <i>Journal of Glaciology</i> , 2020, 66, 74-82.	2.2	4
28	Tectonic and chemical implications of cathodoluminescent microstructures in quartz, Parry Sound domain, Ontario, Canada. <i>Canadian Journal of Earth Sciences</i> , 2017, 54, 677-692.	1.3	2
29	Timing and anatomy of granitic strain gradients in the Grenville Front tectonic zone, Ontario, Canada. , 2017, 13, 1949-1972.		1
30	Elastic Contrast, Rupture Directivity, and Damage Asymmetry in an Anisotropic Bimaterial Strike-slip Fault at Middle Crustal Depths. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	0