Christopher C Gerbi

List of Publications by Year
in descending order

30	457	687363 13	752698 20
papers	citations	h-index	g-index

34	34	34	422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Elastic Contrast, Rupture Directivity, and Damage Asymmetry in an Anisotropic Bimaterial Strikeâ€Slip Fault at Middle Crustal Depths. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	0
2	The quartz Î±â†”Î² phase transition: Does it drive damage and reaction in continental crust?. Earth and Planetary Science Letters, 2021, 553, 116622.	4.4	14
3	Microstructures in a shear margin: Jarvis Glacier, Alaska. Journal of Glaciology, 2021, 67, 1163-1176.	2.2	12
4	Energy Partitioning, Dynamic Fragmentation, and Offâ€Fault Damage in the Earthquake Source Volume. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022616.	3.4	14
5	The impact of temperature and crystal orientation fabric on the dynamics of mountain glaciers and ice streams. Journal of Glaciology, 2020, 66, 755-765.	2.2	14
6	Coseismic damage runs deep in continental strike-slip faults. Earth and Planetary Science Letters, 2020, 539, 116226.	4.4	11
7	Quartz fluid inclusion abundance and off-fault damage in a deeply exhumed, strike-slip, seismogenic fault. Journal of Structural Geology, 2020, 139, 104118.	2.3	6
8	A novel tilt sensor for studying ice deformation: application to streaming ice on Jarvis Glacier, Alaska. Journal of Glaciology, 2020, 66, 74-82.	2.2	4
9	Seismic cycle feedbacks in a mid-crustal shear zone. Journal of Structural Geology, 2018, 112, 95-111.	2.3	11
10	Tectonic and chemical implications of cathodoluminescent microstructures in quartz, Parry Sound domain, Ontario, Canada. Canadian Journal of Earth Sciences, 2017, 54, 677-692.	1.3	2
11	Legacy organochlorine pollutants in glacial watersheds: a review. Environmental Sciences: Processes and Impacts, 2017, 19, 1474-1483.	3.5	30
12	Timing and anatomy of granitic strain gradients in the Grenville Front tectonic zone, Ontario, Canada. , 2017, 13, 1949-1972.		1
13	Influence of microscale weak zones on bulk strength. Geochemistry, Geophysics, Geosystems, 2016, 17, 4064-4077.	2.5	12
14	Computational homogenization and micromechanical analysis of textured polycrystalline materials. Computer Methods in Applied Mechanics and Engineering, 2016, 310, 749-779.	6.6	29
15	Recrystallization fabrics of sheared quartz veins with a strong pre-existing crystallographic preferred orientation from a seismogenic shear zone. Tectonophysics, 2016, 682, 214-236.	2.2	16
16	The spin zone: Transient mid-crust permeability caused by coseismic brecciation. Journal of Structural Geology, 2016, 87, 47-63.	2.3	8
17	Macro- and microstructural analysis of the North Tea Lake Mylonite Zone: an extensional shear zone in the Central Gneiss Belt, Grenville Province, Ontario. Canadian Journal of Earth Sciences, 2015, 52, 1027-1044.	1.3	5
18	Effect of phase morphology on bulk strength for power-law materials. Geophysical Journal International, 2014, 200, 374-389.	2.4	16

#	Article	IF	Citations
19	Computational analysis of nonlinear creep of polyphase aggregates: Influence of phase morphology. Journal of Geophysical Research: Solid Earth, 2014, 119, 6877-6906.	3.4	22
20	The effect of microstructural and rheological heterogeneity on porphyroblast kinematics and bulk strength in porphyroblastic schists. Tectonophysics, 2013, 587, 63-78.	2.2	5
21	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. International Geology Review, 2013, 55, 525-547.	2.1	6
22	Using zircon Uâ€“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. Precambrian Research, 2012, 192-195, 142-165.	2.7	15
23	Evaluating the utility of a phase distribution parameter in calculating the bulk viscous strength of two-phase composites. Journal of Structural Geology, 2012, 39, 224-236.	2.3	9
24	Identifying deformed pseudotachylyte and its influence on the strength and evolution of a crustal shear zone at the base of the seismogenic zone. Tectonophysics, 2012, 518-521, 63-83.	2.2	53
25	The influence of crenulation cleavage development on the bulk elastic and seismic properties of phyllosilicate-rich rocks. Earth and Planetary Science Letters, 2011, 311, 212-224.	4.4	25
26	Heterogeneous amphibolite facies deformation of a granulite facies layered protolith: Matches Island shear system, Parry Sound domain, Grenville Province, Ontario, Canada. Journal of Structural Geology, 2011, 33, 875-890.	2.3	7
27	Magnitude of weakening during crustal-scale shear zone development. Journal of Structural Geology, 2010, 32, 107-117.	2.3	28
28	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. Tectonics, 2010, 29, n/a-n/a.	2.8	22
29	Use of U-Pb geochronology to identify successive, spatially overlapping tectonic episodes during Silurian-Devonian orogenesis in south-central Maine, USA. Bulletin of the Geological Society of America, 2007, 119, 1218-1231.	3.3	29
30	Implications of rapid, dike-fed pluton growth for host-rock strain rates and emplacement mechanisms. Journal of Structural Geology, 2004, 26, 583-594.	2.3	30