Luca Menegon

List of Publications by Year
in descending order

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47	1,498	279778	330122
papers	citations	23 h-index	37 g-index

75	75	75	1102
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strain-induced trace element mobility in a quartz-sulphide vein system: An example from the ONKALOâ„¢ spent nuclear fuel repository (Olkiluoto, SW Finland). Journal of Structural Geology, 2022, 154, 104473.	2.3	2
2	Strength of Dry and Wet Quartz in the Lowâ€Temperature Plasticity Regime: Insights From Nanoindentation. Geophysical Research Letters, 2022, 49, .	4.0	4
3	Deformation, thermochronology and tectonic significance of the crustal-scale CubatÃ£o Shear Zone, Ribeira Belt, Brazil. Tectonophysics, 2022, 828, 229278.	2.2	4
4	On the petrology and microstructures of small-scale ductile shear zones in granitoid rocks: An overview. Journal of Structural Geology, 2022, 161, 104667.	2.3	6
5	High Stress Deformation and Shortâ€Term Thermal Pulse Preserved in Pyroxene Microstructures From Exhumed Lower Crustal Seismogenic Faults (Lofoten, Norway). Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	8
6	The earthquake cycle in the dry lower continental crust: insights from two deeply exhumed terranes (Musgrave Ranges, Australia and Lofoten, Norway). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190416.	3.4	7
7	Reactionâ€Induced Mantle Weakening at Highâ€Pressure Conditions: An Example From Garnet Pyroxenites of Ulten Zone (Eastern Alps, N Italy). Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022584.	3.4	1
8	Feedback between high-pressure genesis of abiotic methane and strain localization in subducted carbonate rocks. Scientific Reports, 2020, 10, 9848.	3.3	18
9	Protracted Shearing at Midcrustal Conditions During Largeâ€Scale Thrusting in the Scandinavian Caledonides. Tectonics, 2020, 39, e2020TC006267.	2.8	16
10	High-stress creep preceding coseismic rupturing in amphibolite-facies ultramylonites. Earth and Planetary Science Letters, 2020, 541, 116260.	4.4	13
11	Magnetic anisotropy reveals Acadian transpressional fabrics in an Appalachian ophiolite (Thetford) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	3
12	Earthquake nucleation in the lower crust by local stress amplification. Nature Communications, 2020, 11, 1322.	12.8	35
13	Structural and metamorphic inheritance controls strain partitioning during orogenic shortening (Kalak Nappe Complex, Norwegian Caledonides). Journal of Structural Geology, 2020, 136, 104057.	2.3	7
14	Fluid-mediated, brittleâ€“ductile deformation at seismogenic depth â€“ Part 2: Stress history and fluid pressure variations in a shear zone in a nuclear waste repository (Olkiluoto Island, Finland). Solid Earth, 2020, 11, 489-511.	2.8	9
15	Structural setting of a transpressive shear zone: insights from geological mapping, quartz petrofabric and kinematic vorticity analysis in NE Sardinia (Italy). Geological Magazine, 2020, 157, 1898-1916.	1.5	10
16	Fluid-mediated, brittleâ€“ductile deformation at seismogenic depth â€“ Part 1: Fluid record and deformation history of fault veins in a nuclear waste repository (Olkiluoto Island, Finland). Solid Earth, 2019, 10, 809-838.	2.8	27
17	The Effects of Earthquakes and Fluids on the Metamorphism of the Lower Continental Crust. Journal of Geophysical Research: Solid Earth, 2019, 124, 7725-7755.	3.4	67
18	Transient High Strain Rate During Localized Viscous Creep in the Dry Lower Continental Crust (Lofoten, Norway). Journal of Geophysical Research: Solid Earth, 2019, 124, 10240-10260.	3.4	23

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19	A safer future with clues from earthquakes past. Impact, 2019, 2019, 6-8.	0.1	0
20	The ultimate fate of a synmagmatic shear zone. Interplay between rupturing and ductile flow in a cooling granite pluton. Journal of Structural Geology, 2018, 110, 1-23.	2.3	12
21	Myrmekite and strain weakening in granitoid mylonites. Solid Earth, 2018, 9, 1399-1419.	2.8	23
22	Replacement reactions and deformation by dissolution and precipitation processes in amphibolites. Journal of Metamorphic Geology, 2018, 36, 1263-1286.	3.4	54
23	The strainâ€dependent spatial evolution of garnet in a highâ€P ductile shear zone from the Western Gneiss Region (Norway): a synchrotron Xâ€ray microtomography study. Journal of Metamorphic Geology, 2017, 35, 565-583.	3.4	22
24	Creep of mafic dykes infiltrated by melt in the lower continental crust (Seiland Igneous Province,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 5	1.4	7
25	Crystallographic control and texture inheritance during mylonitization of coarse grained quartz veins. Lithos, 2017, 290-291, 210-227.	1.4	33
26	Earthquakes as Precursors of Ductile Shear Zones in the Dry and Strong Lower Crust. Geochemistry, Geophysics, Geosystems, 2017, 18, 4356-4374.	2.5	61
27	Switching deformation mode and mechanisms during subduction of continental crust: a case study from Alpine Corsica. Solid Earth, 2017, 8, 767-788.	2.8	14
28	Hierarchical creep cavity formation in an ultramylonite and implications for phase mixing. Solid Earth, 2017, 8, 1193-1209.	2.8	29
29	Brittle grain-size reduction of feldspar, phase mixing and strain localization in granitoids at mid-crustal conditions (Pernambuco shear zone, NE Brazil). Solid Earth, 2016, 7, 375-396.	2.8	56
30	Behaviour of geochronometers and timing of metamorphic reactions during deformation at lower crustal conditions: phase equilibrium modelling and Uâ€“Pb dating of zircon, monazite, rutile and titanite from the Kalak Nappe Complex, northern Norway. Journal of Metamorphic Geology, 2015, 33, 513-534.	3.4	45
31	Brittleâ€“viscous deformation of vein quartz under fluid-rich lower greenschist facies conditions. Solid Earth, 2015, 6, 681-699.	2.8	23
32	Creep cavitation bands control porosity and fluid flow in lower crustal shear zones. Geology, 2015, 43, 227-230.	4.4	96
33	Semibrittle deformation and partial melting of perthitic Kâ€feldspar: An experimental study. Journal of Geophysical Research: Solid Earth, 2014, 119, 3478-3502.	3.4	13
34	Transition from fracturing to viscous flow in granulite facies perthitic feldspar (Lofoten, Norway). Journal of Structural Geology, 2013, 48, 95-112.	2.3	60
35	On the nucleation of non-Andersonian faults along phyllosilicate-rich mylonite belts. Geological Society Special Publication, 2012, 367, 185-199.	1.3	23
36	Dating deformation in the Gran Paradiso Massif (NW Italian Alps): Implications for the exhumation of high-pressure rocks in a collisional belt. Lithos, 2012, 144-145, 130-144.	1.4	26

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37	Dry and strong quartz during deformation of the lower crust in the presence of melt. Journal of Geophysical Research, 2011, 116, .	3.3	71
38	Misoriented faults in exhumed metamorphic complexes: Rule or exception?. Earth and Planetary Science Letters, 2011, 307, 233-239.	4.4	31
39	The effect of DauphinÃ© twinning on plastic strain in quartz. Contributions To Mineralogy and Petrology, 2011, 161, 635-652.	3.1	66
40	Local shear zone pattern and bulk deformation in the Gran Paradiso metagranite (NW Italian Alps). International Journal of Earth Sciences, 2010, 99, 1805-1825.	1.8	29
41	Three-dimensional characterization of a crustal-scale fault zone: The Pusteria and Sprechenstein fault system (Eastern Alps). Journal of Structural Geology, 2010, 32, 2022-2041.	2.3	43
42	Development of crystallographic preferred orientation and microstructure during plastic deformation of natural coarseâ€grained quartz veins. Journal of Geophysical Research, 2010, 115, .	3.3	62
43	Dissolution-precipitation creep of K-feldspar in mid-crustal granite mylonites. Journal of Structural Geology, 2008, 30, 565-579.	2.3	95
44	Evolution of quartz microstructure and c-axis crystallographic preferred orientation within ductilely deformed granitoids (Arolla unit, Western Alps). Journal of Structural Geology, 2008, 30, 1332-1347.	2.3	80
45	Brittleâ€“ductileâ€“brittle deformation during cooling of tonalite (Adamello, Southern Italian Alps). Tectonophysics, 2006, 427, 171-197.	2.2	78
46	Nucleation and growth of myrmekite during ductile shear deformation in metagranites. Journal of Metamorphic Geology, 2006, 24, 553-568.	3.4	73
47	COSC-2 â€“ drilling the basal dÃ©collement and underlying margin of palaeocontinent Baltica in the Paleozoic Caledonide Orogen of Scandinavia. Scientific Drilling, 0, 30, 43-57.	0.6	4