Richard Walker

List of Publications by Year
in descending order

20 papers	954 citations	567281 15 h-index	752698 20 g-index
28 all docs	28 docs citations	28 times ranked	1155 citing authors

#	Article	IF	Citations
1	U-Pb geochronology of calcite-mineralized faults: Absolute timing of rift-related fault events on the northeast Atlantic margin. Geology, 2016, 44, 531-534.	4.4	157
2	Fault rocks from the SAFOD core samples: Implications for weakening at shallow depths along the San Andreas Fault, California. Journal of Structural Geology, 2011, 33, 132-144.	2.3	148
3	Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) Uâ€“Pb carbonate geochronology: strategies, progress, and limitations. Geochronology, 2020, 2, 33-61.	2.5	129
4	Pore geometry as a control on rock strength. Earth and Planetary Science Letters, 2017, 457, 38-48.	4.4	92
5	Stress concentrations around voids in three dimensions: The roots of failure. Journal of Structural Geology, 2017, 102, 193-207.	2.3	79
6	Fault zone permeability structure evolution in basalts. Geology, 2013, 41, 59-62.	4.4	48
7	Fault zone architecture and fluid flow in interlayered basaltic volcaniclastic-crystalline sequences. Journal of Structural Geology, 2013, 51, 92-104.	2.3	42
8	Igneous sills record far-field and near-field stress interactions during volcano construction: Isle of Mull, Scotland. Earth and Planetary Science Letters, 2017, 478, 159-174.	4.4	36
9	Thermal Damage and Pore Pressure Effects of the Brittleâ€Ductile Transition in Comiso Limestone. Journal of Geophysical Research: Solid Earth, 2018, 123, 7644-7660.	3.4	33
10	Structural signatures of igneous sheet intrusion propagation. Journal of Structural Geology, 2019, 125, 148-154.	2.3	30
11	Geophysical evidence for crustal and mantle weak zones controlling intra-plate seismicity â€“ the 2017 Botswana earthquake sequence. Earth and Planetary Science Letters, 2019, 506, 175-183.	4.4	26
12	The development of cavities and clastic infills along fault-related fractures in Tertiary basalts on the NE Atlantic margin. Journal of Structural Geology, 2011, 33, 92-106.	2.3	25
13	Controls on transgressive sill growth. Geology, 2016, 44, 99-102.	4.4	24
14	Onshore evidence for progressive changes in rifting directions during continental break-up in the NE Atlantic. Journal of the Geological Society, 2011, 168, 27-48.	2.1	22
15	Fault-zone evolution in layered basalt sequences: A case study from the Faroe Islands, NE Atlantic margin. Bulletin of the Geological Society of America, 2012, 124, 1382-1393.	3.3	15
16	Normal fault growth in layered basaltic rocks: The role of strain rate in fault evolution. Journal of Structural Geology, 2018, 115, 103-120.	2.3	13
17	Segment tip geometry of sheet intrusions, II: Field observations of tip geometries and a model for evolving emplacement mechanisms. Volcanica, 2021, 4, 203-225.	1.8	10
18	The estimation of fault slip from map data: The separation-pitch diagram. Tectonophysics, 2013, 583, 158-163.	2.2	9

#	Article	IF	Citations
19	The Roles of Elastic Properties, Magmatic Pressure, and Tectonic Stress in Saucerâ€Shaped Sill Growth. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB019041.	3.4	6
20	Segment tip geometry of sheet intrusions, I: Theory and numerical models for the role of tip shape in controlling propagation pathways. Volcanica, 2021, 4, 189-201.	1.8	6