

# Ake Fagereng

## List of Publications by Year in descending order

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88  
papers

2,639  
citations

186209

28  
h-index

223716

46  
g-index

118  
all docs

118  
docs citations

118  
times ranked

1871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Målange rheology and seismic style. <i>Geology</i> , 2010, 38, 751-754.	2.0	244
2	Characterizing the seismogenic zone of a major plate boundary subduction thrust: Hikurangi Margin, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	142
3	An Explanation of Episodic Tremor and Slow Slip Constrained by CrackâSeal Veins and Viscous Shear in Subduction Målange. <i>Geophysical Research Letters</i> , 2018, 45, 5371-5379.	1.5	100
4	Slow slip source characterized by lithological and geometric heterogeneity. <i>Science Advances</i> , 2020, 6, eaay3314.	4.7	95
5	Shear veins observed within anisotropic fabric at high angles to the maximum compressive stress. <i>Nature Geoscience</i> , 2010, 3, 482-485.	5.4	92
6	Brittleâviscous deformation, slow slip, and tremor. <i>Geophysical Research Letters</i> , 2014, 41, 4159-4167.	1.5	80
7	Incrementally developed slickenfibers â Geological record of repeating low stress-drop seismic events?. <i>Tectonophysics</i> , 2011, 510, 381-386.	0.9	66
8	Fluid budgets along the northern Hikurangi subduction margin, New Zealand: the effect of a subducting seamount on fluid pressure. <i>Geophysical Journal International</i> , 2015, 202, 277-297.	1.0	62
9	On factors controlling the depth of interseismic coupling on the Hikurangi subduction interface, New Zealand. <i>Earth and Planetary Science Letters</i> , 2009, 278, 120-130.	1.8	60
10	Signature of coseismic decarbonation in dolomitic fault rocks of the Naukluft Thrust, Namibia. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 200-210.	1.8	58
11	Fracturing of doleritic intrusions and associated contact zones: Implications for fluid flow in volcanic basins. <i>Journal of African Earth Sciences</i> , 2015, 102, 70-85.	0.9	58
12	Subduction megathrust creep governed by pressure solution and frictionalâviscous flow. <i>Nature Geoscience</i> , 2017, 10, 51-57.	5.4	58
13	New perspectives on âgeological strain ratesâ <sup>TM</sup> calculated from both naturally deformed and actively deforming rocks. <i>Journal of Structural Geology</i> , 2019, 125, 100-110.	1.0	56
14	Strength of Strained TwoâPhase Mixtures: Application to Rapid Creep and Stress Amplification in Subduction Zone Målange. <i>Geophysical Research Letters</i> , 2019, 46, 169-178.	1.5	49
15	Fractal vein distributions within a fault-fracture mesh in an exhumed accretionary målange, Chrystalls Beach Complex, New Zealand. <i>Journal of Structural Geology</i> , 2011, 33, 918-927.	1.0	47
16	Fault segmentation, deep rift earthquakes and crustal rheology: Insights from the 2009 Karonga sequence and seismicity in the RukwaâMalawi rift zone. <i>Tectonophysics</i> , 2013, 601, 216-225.	0.9	43
17	Fingerprints of late Neoproterozoic ridge subduction in the Pan-African Damara belt, Namibia. <i>Geology</i> , 2014, 42, 903-906.	2.0	42
18	The influence of melting and melt drainage on crustal rheology during orogenesis. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 6193-6210.	1.4	42

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19	Frequency-size distribution of competent lenses in a block-in-matrix mélange: Imposed length scales of brittle deformation?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
20	Non-volcanic tremor and discontinuous slab dehydration. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	39
21	Controls on Early-Rift Geometry: New Perspectives From the Bilila-Mtakataka Fault, Malawi. <i>Geophysical Research Letters</i> , 2018, 45, 3896-3905.	1.5	37
22	Earthquake nucleation in the lower crust by local stress amplification. <i>Nature Communications</i> , 2020, 11, 1322.	5.8	35
23	Geodetic Constraints on Cratonic Microplates and Broad Strain During Rifting of Thick Southern African Lithosphere. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093785.	1.5	34
24	Mixed deformation styles observed on a shallow subduction thrust, Hikurangi margin, New Zealand. <i>Geology</i> , 2019, 47, 872-876.	2.0	33
25	The metamorphic history of rocks buried, accreted and exhumed in an accretionary prism: an example from the Otago Schist, New Zealand. <i>Journal of Metamorphic Geology</i> , 2010, 28, 935-954.	1.6	32
26	Geological constraints on the mechanisms of slow earthquakes. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 285-301.	12.2	32
27	Wedge geometry, mechanical strength, and interseismic coupling of the Hikurangi subduction thrust, New Zealand. <i>Tectonophysics</i> , 2011, 507, 26-30.	0.9	31
28	Upper plate tectonic stress state may influence interseismic coupling on subduction megathrusts. <i>Geology</i> , 2012, 40, 895-898.	2.0	31
29	On stress and strain in a continuous-discontinuous shear zone undergoing simple shear and volume loss. <i>Journal of Structural Geology</i> , 2013, 50, 44-53.	1.0	31
30	Active Fault Scarps in Southern Malawi and Their Implications for the Distribution of Strain in Incipient Continental Rifts. <i>Tectonics</i> , 2020, 39, e2019TC005834.	1.3	31
31	Geology of the earthquake source: an introduction. <i>Geological Society Special Publication</i> , 2011, 359, 1-16.	0.8	30
32	Strain distribution within a km-scale, mid-crustal shear zone: The Kuckaus Mylonite Zone, Namibia. <i>Journal of Structural Geology</i> , 2013, 56, 57-69.	1.0	29
33	How Do Variably Striking Faults Reactivate During Rifting? Insights From Southern Malawi. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 3588-3607.	1.0	28
34	Geology of the seismogenic subduction thrust interface. <i>Geological Society Special Publication</i> , 2011, 359, 55-76.	0.8	27
35	Virtual shear box-experiments of stress and slip cycling within a subduction interface mélange. <i>Earth and Planetary Science Letters</i> , 2018, 488, 27-35.	1.8	27
36	Quartz vein formation by local dehydration embrittlement along the deep, tremorogenic subduction thrust interface. <i>Geology</i> , 2018, 46, 67-70.	2.0	27

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37	Structural inheritance and border fault reactivation during active early-stage rifting along the Thyolo fault, Malawi. <i>Journal of Structural Geology</i> , 2020, 139, 104097.	1.0	26
38	Silica gel in a fault slip surface: Field evidence for palaeo-earthquakes?. <i>Journal of Structural Geology</i> , 2014, 69, 108-121.	1.0	25
39	Stable isotope study of the Archaean rocks of the Vredefort impact structure, central Kaapvaal Craton, South Africa. <i>Contributions To Mineralogy and Petrology</i> , 2007, 155, 63-78.	1.2	24
40	Is complex fault zone behaviour a reflection of rheological heterogeneity?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190421.	1.6	24
41	Fracture and Weakening of Jammed Subduction Shear Zones, Leading to the Generation of Slow Slip Events. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 4869-4884.	1.0	23
42	Polymetamorphism, zircon growth and retention of early assemblages through the dynamic evolution of a continental arc in Fiordland, New Zealand. <i>Journal of Metamorphic Geology</i> , 2009, 27, 281-294.	1.6	22
43	A semi-automated algorithm to quantify scarp morphology (SPARTA): application to normal faults in southern Malawi. <i>Solid Earth</i> , 2019, 10, 27-57.	1.2	21
44	San Andreas Fault tremor and retrograde metamorphism. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	20
45	Evidence From High-Resolution Topography for Multiple Earthquakes on High Slip-Length Fault Scarps: The Bilila-Mtakataka Fault, Malawi. <i>Tectonics</i> , 2020, 39, e2019TC005933.	1.3	20
46	Hydrous oceanic crust hosts megathrust creep at low shear stresses. <i>Science Advances</i> , 2020, 6, eaba1529.	4.7	20
47	Expedition 372B/375 summary. <i>Proceedings of the International Ocean Discovery Program</i> , 0, .	0.0	20
48	Low-Temperature Frictional Characteristics of Chlorite-Epidote-Amphibole Assemblages: Implications for Strength and Seismic Style of Retrograde Fault Zones. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019487.	1.4	19
49	Interplay between fluid flow and fault-fracture mesh generation within underthrust sediments: Geochemical evidence from the Chrystalls Beach Complex, New Zealand. <i>Tectonophysics</i> , 2014, 612-613, 147-157.	0.9	18
50	The Role of Coseismic Coulomb Stress Changes in Shaping the Hard Link Between Normal Fault Segments. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 797-814.	1.4	18
51	Expedition 372B/375 methods. <i>Proceedings of the International Ocean Discovery Program</i> , 0, .	0.0	18
52	Site U1520. <i>Proceedings of the International Ocean Discovery Program</i> , 0, .	0.0	18
53	Metamorphic imprint of accretion and ridge subduction in the Pan-African Damara Belt, Namibia. <i>Journal of Metamorphic Geology</i> , 2015, 33, 633-648.	1.6	17
54	A systems-based approach to parameterise seismic hazard in regions with little historical or instrumental seismicity: active fault and seismogenic source databases for southern Malawi. <i>Solid Earth</i> , 2021, 12, 187-217.	1.2	17

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55	Site U1518. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	16
56	The Malawi Active Fault Database: An Onshoreâ€œOffshore Database for Regional Assessment of Seismic Hazard and Tectonic Evolution. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	16
57	Petrology of metabasalts from the Chrystalls Beach accretionary mÃ©lange - implications for tectonic setting and terrane origin. <i>New Zealand Journal of Geology, and Geophysics</i> , 2010, 53, 57-70.	1.0	15
58	Lower crustal earthquakes in the East African Rift System: Insights from frictional properties of rock samples from the Malawi rift. <i>Tectonophysics</i> , 2019, 767, 228167.	0.9	15
59	Weaker Than Weakest: On the Strength of Shear Zones. <i>Geophysical Research Letters</i> , 2019, 46, 7404-7413.	1.5	15
60	A range of fault slip styles on progressively misoriented planes during flexural-slip folding, Cape Fold Belt, South Africa. <i>Journal of Structural Geology</i> , 2015, 70, 156-169.	1.0	13
61	Microseismic Activity and Basement Controls on an Active Intraplate Strikeâ€œSlip Fault, Ceresâ€œTulbagh, South Africa. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 1540-1547.	1.1	13
62	Tectonic pressure gradients during viscous creep drive fluid flow and brittle failure at the base of the seismogenic zone. <i>Geology</i> , 2021, 49, 1255-1259.	2.0	13
63	Afterslip Moment Scaling and Variability From a Global Compilation of Estimates. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	13
64	STABLE ISOTOPE EVIDENCE FOR IMPACT-RELATED PSEUDOTACHYLITE FORMATION AT VREDEFORT BY LOCAL MELTING OF DRY ROCKS. <i>South African Journal of Geology</i> , 2013, 116, 101-118.	0.6	12
65	Mid-crustal shear zone development under retrograde conditions: pressureâ€œtemperatureâ€œfluid constraints from the Kuckaus Mylonite Zone, Namibia. <i>Solid Earth</i> , 2016, 7, 1331-1347.	1.2	12
66	Stress, strain, and fault behavior at a thrust ramp: Insights from the Naukluft thrust, Namibia. <i>Journal of Structural Geology</i> , 2014, 58, 95-107.	1.0	11
67	Shear Zone Development in Serpentinized Mantle: Implications for the Strength of Oceanic Transform Faults. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020763.	1.4	11
68	Site U1519. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	11
69	Influence of Subduction Zone Dynamics on Interface Shear Stress and Potential Relationship With Seismogenic Behavior. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009267.	1.0	9
70	Mixed Brittle and Viscous Strain Localization in Pelagic Sediments Seaward of the Hikurangi Margin, New Zealand. <i>Tectonics</i> , 2020, 39, e2019TC005965.	1.3	8
71	Variable In Situ Stress Orientations Across the Northern Hikurangi Subduction Margin. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091707.	1.5	8
72	The Role of Quartz Cementation in the Seismic Cycle: A Critical Review. <i>Reviews of Geophysics</i> , 2022, 60, .	9.0	8

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73	Site U1526. Proceedings of the International Ocean Discovery Program, 0, , .	0.0	7
74	The contemporary force balance in a wide accretionary wedge: numerical models of the southcentral Hikurangi margin of New Zealand. <i>Geophysical Journal International</i> , 2019, 219, 776-795.	1.0	6
75	Evidence of Seismic Slip on a Large Splay Fault in the Hikurangi Subduction Zone. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009638.	1.0	6
76	Seafloor overthrusting causes ductile fault deformation and fault sealing along the Northern Hikurangi Margin. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117651.	1.8	6
77	A NOTE ON FOLDING MECHANISMS IN THE CAPE FOLD BELT, SOUTH AFRICA. <i>South African Journal of Geology</i> , 2012, 115, 137-144.	0.6	5
78	Significant shortening by pressure solution creep in the Dwyka diamictite, Cape Fold Belt, South Africa. <i>Journal of African Earth Sciences</i> , 2014, 97, 9-18.	0.9	5
79	On Seismicity and Structural Style of Oceanic Transform Faults: A Field Geological Perspective From the Troodos Ophiolite, Cyprus. , 2019, , 437-459.		4
80	Sources and Effects of Fluids in Continental Retrograde Shear Zones: Insights from the Kuckaus Mylonite Zone, Namibia. <i>Geofluids</i> , 2020, 2020, 1-21.	0.3	4
81	Asymmetric Brittle Deformation at the Pāpaku Fault, Hikurangi Subduction Margin, NZ, IODP Expedition 375. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009662.	1.0	4
82	Frictional Characteristics of Oceanic Transform Faults: Progressive Deformation and Alteration Controls Seismic Style. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	4
83	Low Dissipation of Earthquake Energy Where a Fault Follows Pre-existing Weaknesses: Field and Microstructural Observations of Malawi's Bilila-Mtakataka Fault. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
84	Knickpoint morphotectonics of the Middle Shire River basin: Implications for the evolution of rift interaction zones. <i>Basin Research</i> , 2022, 34, 1839-1858.	1.3	4
85	South African research in the Southern Ocean: New opportunities but serious challenges. <i>South African Journal of Science</i> , 2013, 109, 4.	0.3	3
86	Fluid-related deformation processes at the up- and downdip limits of the subduction thrust seismogenic zone: What do the rocks tell us?. , 0, , .		3
87	What Do Earthquake Magnitudes Mean? Example of the Kaikōura, New Zealand, 2016 Event. <i>Developments in Structural Geology and Tectonics</i> , 2019, 5, 57-64.	0.2	1
88	Paleostress Analysis of Karoo Supergroup of the Tshipise-Pafuri Basin, South Africa: Comment. <i>South African Journal of Geology</i> , 2015, 118, 511-513.	0.6	0