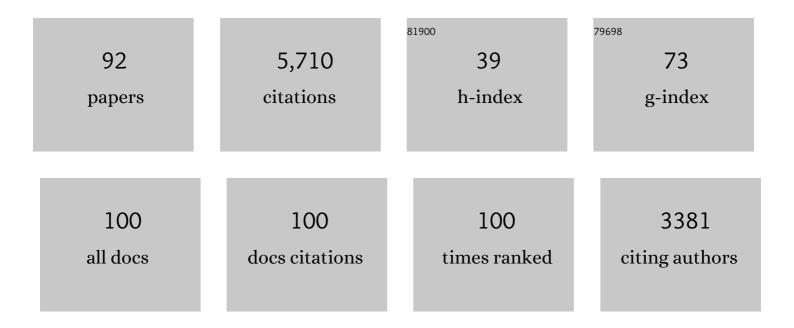
Andrew Nicol

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Complex multifault rupture during the 2016 <i>M</i> _w 7.8 KaikÅura earthquake, New Zealand. Science, 2017, 356, .	12.6	457
2	A geometric model of fault zone and fault rock thickness variations. Journal of Structural Geology, 2009, 31, 117-127.	2.3	371
3	National Seismic Hazard Model for New Zealand: 2010 Update. Bulletin of the Seismological Society of America, 2012, 102, 1514-1542.	2.3	359
4	An alternative model for the growth of faults. Journal of Structural Geology, 2002, 24, 1669-1675.	2.3	332
5	The New Zealand Active Faults Database. New Zealand Journal of Geology, and Geophysics, 2016, 59, 86-96.	1.8	201
6	Growth of vertically segmented normal faults. Journal of Structural Geology, 1996, 18, 1389-1397.	2.3	200
7	The growth and propagation of synsedimentary faults. Journal of Structural Geology, 2003, 25, 633-648.	2.3	194
8	Segmentation and growth of an obliquely reactivated normal fault. Journal of Structural Geology, 2012, 39, 253-267.	2.3	193
9	Growth of a normal fault by the accumulation of slip over millions of years. Journal of Structural Geology, 2005, 27, 327-342.	2.3	173
10	Tectonic evolution of the active Hikurangi subduction margin, New Zealand, since the Oligocene. Tectonics, 2007, 26, .	2.8	162
11	A model of active faulting in New Zealand. New Zealand Journal of Geology, and Geophysics, 2014, 57, 32-56.	1.8	147
12	Late Cenozoic evolution and earthquake potential of an active listric thrust complex above the Hikurangi subduction zone, New Zealand. Bulletin of the Geological Society of America, 2002, 114, 1379-1405.	3.3	126
13	Surface Rupture of Multiple Crustal Faults in the 2016 MwÂ7.8 KaikÅura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1496-1520.	2.3	125
14	Progressive localisation of strain during the evolution of a normal fault population. Journal of Structural Geology, 2002, 24, 1215-1231.	2.3	121
15	Fault displacement rates on a range of timescales. Earth and Planetary Science Letters, 2009, 278, 186-197.	4.4	111
16	Normal fault interactions, paleoearthquakes and growth in an active rift. Journal of Structural Geology, 2010, 32, 1101-1113.	2.3	105
17	Displacement rates of normal faults. Nature, 1997, 390, 157-159.	27.8	104
18	Evolution of faulting and volcanism in a back-arc basin and its implications for subduction processes. Tectonics, 2010, 29, n/a-n/a.	2.8	92

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19	Interdependence of fault displacement rates and paleoearthquakes in an active rift. Geology, 2006, 34, 865.	4.4	88
20	Three-dimensional geometry and growth of conjugate normal faults. Journal of Structural Geology, 1995, 17, 847-862.	2.3	83
21	Fault size distributions — are they really power-law?. Journal of Structural Geology, 1996, 18, 191-197.	2.3	80
22	Two-phase Cretaceous–Paleocene rifting in the Taranaki Basin region, New Zealand; implications for Gondwana break-up. Journal of the Geological Society, 2017, 174, 929-946.	2.1	77
23	Seismic stratigraphic record of transition from Mesozoic subduction to continental breakup in the Zealandia sector of eastern Gondwana. Gondwana Research, 2014, 26, 1060-1078.	6.0	72
24	Growth of contractional structures during the last 10 m.y. at the southern end of the emergent Hikurangi forearc basin, New Zealand. New Zealand Journal of Geology, and Geophysics, 2002, 45, 365-385.	1.8	68
25	Structure and kinematics of the Taupo Rift, New Zealand. Tectonics, 2014, 33, 1178-1199.	2.8	64
26	Evolution of faulting and plate boundary deformation in the Southern Taranaki Basin, New Zealand. Tectonophysics, 2015, 651-652, 1-18.	2.2	62
27	Displacement loss on growth faults due to sediment compaction. Journal of Structural Geology, 2008, 30, 394-405.	2.3	61
28	Fault controls on the geometry and location of the Okataina Caldera, Taupo Volcanic Zone, New Zealand. Journal of Volcanology and Geothermal Research, 2010, 190, 136-151.	2.1	60
29	Geometry of the subducting Pacific plate since 20 Ma, Hikurangi margin, New Zealand. Journal of the Geological Society, 2014, 171, 131-143.	2.1	60
30	Paleogeography of the Taranaki Basin region during the latest Eocene–Early Miocene and implications for the †total drowning' of Zealandia. New Zealand Journal of Geology, and Geophysics, 2014, 57, 110-127.	1.8	56
31	Earthquake histories and Holocene acceleration of fault displacement rates. Geology, 2009, 37, 911-914.	4.4	52
32	Stratigraphy of architectural elements in a buried volcanic system and implications for hydrocarbon exploration. Interpretation, 2017, 5, SK141-SK159.	1.1	51
33	Preliminary Geometry, Displacement, and Kinematics of Fault Ruptures in the Epicentral Region of the 2016 MwA7.8 KaikÅura, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2018, 108, 1521-1539.	2.3	50
34	A geometric model for the formation of deformation band clusters. Journal of Structural Geology, 2013, 55, 21-33.	2.3	49
35	Paleoseismology of the 2010 Mw 7.1 Darfield (Canterbury) earthquake source, Greendale Fault, New Zealand. Tectonophysics, 2014, 637, 178-190.	2.2	45
36	Formation of an active thrust triangle zone associated with structural inversion in a subduction setting, eastern New Zealand. Tectonics, 2004, 23, n/a-n/a.	2.8	43

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37	Investigation of the spatio-temporal relationship between normal faulting and arc volcanism on million-year time scales. Journal of the Geological Society, 2013, 170, 951-962.	2.1	42
38	Holocene paleoearthquakes on the strikeâ€slip Porters Pass Fault, Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 2005, 48, 59-74.	1.8	39
39	Fault-slip accumulation in an active rift over thousands to millions of years and the importance of paleoearthquake sampling. Journal of Structural Geology, 2012, 36, 71-80.	2.3	39
40	Displacement rates and average earthquake recurrence intervals on normal faults. Journal of Structural Geology, 2005, 27, 541-551.	2.3	38
41	Neogene evolution of lower trench-slope basins and wedge development in the central Hikurangi subduction margin, New Zealand. Tectonophysics, 2013, 591, 152-174.	2.2	38
42	Completeness of the Paleoseismic Activeâ€Fault Record in New Zealand. Seismological Research Letters, 2016, 87, 1299-1310.	1.9	36
43	Breaking a subduction-termination from top to bottom: The large 2016 KaikÅura Earthquake, New Zealand. Earth and Planetary Science Letters, 2019, 506, 221-230.	4.4	36
44	Tectonic controls on Miocene sedimentation in the Southern Taranaki Basin and implications for New Zealand plate boundary deformation. Basin Research, 2019, 31, 253-273.	2.7	36
45	Fluid flow in fault zones from an active rift. Journal of Structural Geology, 2014, 62, 52-64.	2.3	34
46	Rates of deformation, uplift, and landscape development associated with active folding in the Waipara area of North Canterbury, New Zealand. Tectonics, 1994, 13, 1327-1344.	2.8	33
47	Formation of Late Quaternary paleoshorelines in Crete, Eastern Mediterranean. Earth and Planetary Science Letters, 2015, 431, 294-307.	4.4	32
48	Uplift rate transients at subduction margins due to earthquake clustering. Tectonics, 2016, 35, 2370-2384.	2.8	31
49	Volcanoes buried in Te Riu-a-MÄui/Zealandia sedimentary basins. New Zealand Journal of Geology, and Geophysics, 2020, 63, 378-401.	1.8	31
50	Variability of recurrence interval and single-event slip for surface-rupturing earthquakes in New Zealand. New Zealand Journal of Geology, and Geophysics, 2016, 59, 97-116.	1.8	30
51	Landscape history of the Marlborough Sounds, New Zealand. New Zealand Journal of Geology, and Geophysics, 2011, 54, 195-208.	1.8	29
52	Clusters of megaearthquakes on upper plate faults control the Eastern Mediterranean hazard. Geophysical Research Letters, 2015, 42, 10,282.	4.0	29
53	Displacement accumulation from earthquakes on isolated normal faults. Journal of Structural Geology, 2006, 28, 1685-1693.	2.3	25
54	Mid″ate Holocene paleoseismicity of the eastern Clarence Fault, Marlborough, New Zealand. New Zealand Journal of Geology, and Geophysics, 2009, 52, 195-208.	1.8	24

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55	Stratigraphy of Architectural Elements of a Buried Monogenetic Volcanic System. Open Geosciences, 2019, 11, 581-616.	1.7	24
56	Statistical methods of fracture characterization using acoustic borehole televiewer log interpretation. Journal of Geophysical Research: Solid Earth, 2017, 122, 6836-6852.	3.4	23
57	Late Cenozoic thrust tectonics, Picton, New Zealand. New Zealand Journal of Geology, and Geophysics, 1990, 33, 485-494.	1.8	19
58	Haumurian (c. 66–80 Ma) halfâ€graben development and deformation, mid Waipara, North Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 1993, 36, 127-130.	1.8	19
59	Features of earthquake occurrence in a complex normal fault network: Results from a synthetic seismicity model of the Taupo Rift, New Zealand. Journal of Geophysical Research, 2009, 114, .	3.3	19
60	Palaeoearthquake histories across a normal fault system in the southwest Taranaki Peninsula, New Zealand. New Zealand Journal of Geology, and Geophysics, 2010, 53, 375-394.	1.8	16
61	Displacement Accumulation and Sampling of Paleoearthquakes on Active Normal Faults of Crete in the Eastern Mediterranean. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009265.	2.5	16
62	Evidence for tectonic, lithologic, and thermal controls on fracture system geometries in an andesitic highâ€ŧemperature geothermal field. Journal of Geophysical Research: Solid Earth, 2017, 122, 6853-6874.	3.4	14
63	Monocline formation during growth of segmented faults in the Taranaki Basin, offshore New Zealand. Tectonophysics, 2017, 721, 310-321.	2.2	14
64	Paleogeography and volcanic morphology reconstruction of a buried monogenetic volcanic field (part 2). Bulletin of Volcanology, 2019, 81, 1.	3.0	14
65	The growth of faults. , 2020, , 221-255.		14
66	Late Cretaceous coeval multi-directional extension in South Zealandia: Implications for eastern Gondwana breakup. Marine and Petroleum Geology, 2020, 118, 104383.	3.3	13
67	An Earthquake Simulator for New Zealand. Bulletin of the Seismological Society of America, 2022, 112, 763-778.	2.3	13
68	Uplift and fault slip during the 2016 KaikÅura Earthquake and Late Quaternary, KaikÅura Peninsula, New Zealand. New Zealand Journal of Geology, and Geophysics, 2023, 66, 263-278.	1.8	12
69	A 6000-year record of surface-rupturing paleoearthquakes on the Wairau Fault, New Zealand. New Zealand Journal of Geology, and Geophysics, 2018, 61, 341-358.	1.8	11
70	Evolution of a Normal Fault System Along Eastern Gondwana, New Zealand. Tectonics, 2020, 39, e2020TC006181.	2.8	11
71	Elastic Fault Interactions and Earthquake Rupture Along the Southern Hellenic Subduction Plate Interface Zone in Greece. Geophysical Research Letters, 2020, 47, e2019GL086604.	4.0	11
72	Quantitative geometric description of fracture systems in an andesite lava flow using terrestrial laser scanner data. Journal of Volcanology and Geothermal Research, 2017, 341, 315-331.	2.1	11

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73	Tectonic structures developed in Oligocene limestones: Implications for New Zealand plate boundary deformation in North Canterbury. New Zealand Journal of Geology, and Geophysics, 1992, 35, 353-362.	1.8	10
74	Temporal slip-rate stability and variations on the Hope Fault, New Zealand, during the late Quaternary. Tectonophysics, 2018, 738-739, 112-123.	2.2	10
75	Seismic reflection and petrographic interpretation of a buried monogenetic volcanic Field (part 1). Bulletin of Volcanology, 2019, 81, 1.	3.0	10
76	Stratigraphic constraints on the late Miocene–Pleistocene evolution of the North Island Fault System and axial ranges in the central Hikurangi subduction margin, New Zealand. New Zealand Journal of Geology, and Geophysics, 2019, 62, 248-272.	1.8	10
77	Seismic Geomorphology, Architecture and Stratigraphy of Volcanoes Buried in Sedimentary Basins. , 0,		10
78	Quaternary Tectonics of New Zealand. , 2017, , 1-34.		10
79	Relationships between volcanism and plate tectonics: A case-study from the Canterbury Basin, New Zealand. Marine Geology, 2021, 433, 106397.	2.1	9
80	Millennial to million year normal-fault interactions in the forearc of a subduction margin, Crete, Greece. Journal of Structural Geology, 2018, 113, 225-241.	2.3	8
81	Cataclasis and silt smear on normal faults in weakly lithified turbidites. Journal of Structural Geology, 2018, 117, 44-57.	2.3	8
82	Evolution of syn―to early postâ€rift facies in rift basins: insights from the Cretaceous–Paleocene of the Great South Basin, New Zealand. Basin Research, 2022, 34, 1113-1142.	2.7	7
83	Effects of regional and local stresses on fault slip tendency in the southern Taranaki Basin, New Zealand. Marine and Petroleum Geology, 2019, 107, 467-483.	3.3	6
84	Sedimentary architecture of a Late Cretaceous underâ€filled rift basin, Canterbury Basin, New Zealand. Basin Research, 2022, 34, 342-365.	2.7	6
85	Paleoseismicity of the western Humps fault on the Emu Plain, North Canterbury, New Zealand. New Zealand Journal of Geology, and Geophysics, 2023, 66, 279-292.	1.8	6
86	Palaeoearthquake surface rupture in a transition zone from strike-slip to oblique-normal slip and its implications to seismic hazard, North Island Fault System, New Zealand. Geological Society Special Publication, 2009, 316, 269-292.	1.3	5
87	Early Oligocene marine canyon-channel systems: Implications for regional paleogeography in the Canterbury Basin, New Zealand. Marine Geology, 2019, 418, 106037.	2.1	5
88	Using a calibrated upper living position of marine biota to calculate coseismic uplift: a case study of the 2016ÂKaikÅura earthquake, New Zealand. Earth Surface Dynamics, 2020, 8, 351-366.	2.4	5
89	Impacts of surface fault rupture on residential structures during the 2016 Mw 7.8 KaikÅura earthquake, New Zealand. Bulletin of the New Zealand Society for Earthquake Engineering, 2019, 52, 1-22.	0.5	4
90	Normal Faulting Along the Kythira-Antikythira Strait, Southwest Hellenic Forearc, Greece. Frontiers in Earth Science, 2022, 9, .	1.8	3

#	Article	IF	CITATIONS
91	Petroleum systems in a buried stratovolcano: Maturation, migration and leakage. Marine and Petroleum Geology, 2022, 141, 105682.	3.3	3
92	Processes controlling volcanic and epiclastic reservoir formation in a buried polygenetic stratocone. Geological Society Special Publication, 2023, 520, 285-310.	1.3	1