

Stephen Bannister

List of Publications by Year in descending order

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96
papers

4,865
citations

76196

40
h-index

98622

67
g-index

99
all docs

99
docs citations

99
times ranked

3591
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex multifault rupture during the 2016 Mw 7.8 Kaik�ura earthquake, New Zealand. <i>Science</i> , 2017, 356, .	6.0	457
2	Ambient noise Rayleigh wave tomography of New Zealand. <i>Geophysical Journal International</i> , 2007, 170, 649-666.	1.0	255
3	Simultaneous long-term and short-term slow slip events at the Hikurangi subduction margin, New Zealand: Implications for processes that control slow slip event occurrence, duration, and migration. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	166
4	Revised Interface Geometry for the Hikurangi Subduction Zone, New Zealand. <i>Seismological Research Letters</i> , 2013, 84, 1066-1073.	0.8	163
5	Seismic reflection character of the Hikurangi subduction interface, New Zealand, in the region of repeated Gisborne slow slip events. <i>Geophysical Journal International</i> , 2010, 180, 34-48.	1.0	160
6	Three-dimensional modelling of magnetotelluric data from the Rotokawa geothermal field, Taupo Volcanic Zone, New Zealand. <i>Geophysical Journal International</i> , 2008, 173, 740-750.	1.0	145
7	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
8	Melt distribution beneath a young continental rift: The Taupo Volcanic Zone, New Zealand. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	116
9	Uplift of the Transantarctic Mountains and the bedrock beneath the East Antarctic ice sheet. <i>Journal of Geophysical Research</i> , 1997, 102, 27603-27621.	3.3	115
10	Establishing a Versatile 3-D Seismic Velocity Model for New Zealand. <i>Seismological Research Letters</i> , 2010, 81, 992-1000.	0.8	115
11	Geometry of the Hikurangi subduction thrust and upper plate, North Island, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	1.0	108
12	Tracking repeated subduction of the Hikurangi Plateau beneath New Zealand. <i>Earth and Planetary Science Letters</i> , 2011, 311, 165-171.	1.8	107
13	Shallow morphology of the subducted Pacific plate along the Hikurangi margin, New Zealand. <i>Physics of the Earth and Planetary Interiors</i> , 1996, 93, 3-20.	0.7	105
14	Shallow seismicity of the central Taupo Volcanic Zone, New Zealand: Its distribution and nature. <i>New Zealand Journal of Geology, and Geophysics</i> , 1999, 42, 533-542.	1.0	103
15	Submarine hydrothermal activity along the mid-Kermadec Arc, New Zealand: Large-scale effects on venting. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	1.0	97
16	Shear wave velocity variation across the Taupo Volcanic Zone, New Zealand, from receiver function inversion. <i>Geophysical Journal International</i> , 2004, 159, 291-310.	1.0	95
17	Evolution of the 2010�2012 Canterbury earthquake sequence. <i>New Zealand Journal of Geology, and Geophysics</i> , 2012, 55, 295-304.	1.0	95
18	Do great earthquakes occur on the Alpine Fault in central South Island, New Zealand?. <i>Geophysical Monograph Series</i> , 2007, , 235-251.	0.1	84

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19	Three-dimensional crustal structure in the Southern Alps region of New Zealand from inversion of local earthquake and active source data. <i>Journal of Geophysical Research</i> , 2002, 107, ESE 15-1-ESE 15-20.	3.3	80
20	Time-dependent modeling of slow slip events and associated seismicity and tremor at the Hikurangi subduction zone, New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 734-753.	1.4	79
21	Low seismic-wave speeds and enhanced fluid pressure beneath the Southern Alps of New Zealand. <i>Geology</i> , 2001, 29, 679.	2.0	75
22	Variations in crustal structure across the transition from West to East Antarctica, Southern Victoria Land. <i>Geophysical Journal International</i> , 2003, 155, 870-880.	1.0	73
23	Implications for intraplate volcanism and back-arc deformation in northwestern New Zealand, from joint inversion of receiver functions and surface waves. <i>Geophysical Journal International</i> , 2006, 166, 1466-1483.	1.0	70
24	Geophysical Investigations of the Tectonic Boundary Between East and West Antarctica. <i>Science</i> , 1993, 261, 45-50.	6.0	68
25	Structure of the Hanmer strike-slip basin, Hope fault, New Zealand. <i>Bulletin of the Geological Society of America</i> , 1994, 106, 1459-1473.	1.6	67
26	Variability of earthquake stress drop in a subduction setting, the Hikurangi Margin, New Zealand. <i>Geophysical Journal International</i> , 2017, 208, 306-320.	1.0	67
27	Seismic velocity structure of the central Taupo Volcanic Zone, New Zealand, from local earthquake tomography. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 122, 69-88.	0.8	66
28	Deep tremor in New Zealand triggered by the 2010 Mw8.8 Chile earthquake. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	56
29	Tomographic estimates of sub-Moho seismic velocities in Fennoscandia and structural implications. <i>Tectonophysics</i> , 1991, 189, 37-53.	0.9	55
30	The New Zealand Strong Motion Database. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2017, 50, 1-20.	0.2	51
31	Kinking of the subducting slab by escalator normal faulting beneath the North Island of New Zealand. <i>Geology</i> , 2006, 34, 777.	2.0	50
32	Three-dimensional attenuation structure of central and southern South Island, New Zealand, from local earthquakes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
33	The 2010-2011 Canterbury, New Zealand, seismic sequence: Multiple source analysis from InSAR data and modeling. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
34	3-D imaging of the northern Hikurangi subduction zone, New Zealand: variations in subducted sediment, slab fluids and slow slip. <i>Geophysical Journal International</i> , 2015, 201, 838-855.	1.0	50
35	Seismic stratigraphy of the Plio-Pleistocene Ross Island flexural moat-fill: a prognosis for ANDRILL Program drilling beneath McMurdo-Ross Ice Shelf. <i>Global and Planetary Change</i> , 2005, 45, 83-97.	1.6	47
36	Repeating earthquakes from rupture of an asperity under an Antarctic outlet glacier. <i>Earth and Planetary Science Letters</i> , 2007, 253, 151-158.	1.8	47

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37	Earthquake Directivity, Orientation, and Stress Drop Within the Subducting Plate at the Hikurangi Margin, New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 10,176.	1.4	47
38	Fundamental and higher-mode Rayleigh wave characteristics of ambient seismic noise in New Zealand. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	44
39	Source directionality of ambient seismic noise inferred from three-component beamforming. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 240-248.	1.4	43
40	Non-volcanic tremor associated with the March 2010 Gisborne slow slip event at the Hikurangi subduction margin, New Zealand. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	42
41	Microseismicity and Velocity Structure in the Hawkes Bay Region, New Zealand: Fine Structure of the Subducting Pacific Plate. <i>Geophysical Journal International</i> , 1988, 95, 45-62.	1.0	40
42	Fine-scale Relocation of Aftershocks of the 22 February Mw 6.2 Christchurch Earthquake using Double-difference Tomography. <i>Seismological Research Letters</i> , 2011, 82, 839-845.	0.8	36
43	Shear-wave velocities under the Transantarctic Mountains and terror rift from surface wave inversion. <i>Geophysical Research Letters</i> , 2000, 27, 281-284.	1.5	35
44	Reactivation of tectonics, crustal underplating, and uplift after 60 Myr of passive subsidence, Raukumara Basin, Hikurangi-Kermadec fore arc, New Zealand: Implications for global growth and recycling of continents. <i>Tectonics</i> , 2009, 28, .	1.3	35
45	Deciphering the 3-D distribution of fluid along the shallow Hikurangi subduction zone using P- and S-wave attenuation. <i>Geophysical Journal International</i> , 2017, 211, 1032-1045.	1.0	34
46	Using array MT data to image the crustal resistivity structure of the southeastern Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 305, 63-75.	0.8	32
47	Mapping subduction interface coupling using magnetotellurics: Hikurangi margin, New Zealand. <i>Geophysical Research Letters</i> , 2017, 44, 9261-9266.	1.5	31
48	A future magma inflation event under the rhyolitic Taupo volcano, New Zealand: Numerical models based on constraints from geochemical, geological, and geophysical data. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 168, 1-27.	0.8	30
49	Upper crustal structure beneath the eastern Southern Alps and the Mackenzie Basin, New Zealand, derived from seismic reflection data. <i>New Zealand Journal of Geology, and Geophysics</i> , 2003, 46, 21-39.	1.0	29
50	Earthquakes triggered by slow slip at the plate interface in the Hikurangi subduction zone, New Zealand. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	26
51	Characteristics of three recent earthquake sequences in the Taupo Volcanic Zone, New Zealand. <i>Tectonophysics</i> , 2008, 452, 17-28.	0.9	26
52	The benefit of hindsight in observational science: Retrospective seismological observations. <i>Earth and Planetary Science Letters</i> , 2012, 345-348, 212-220.	1.8	25
53	The Mw 7.6 Dusky Sound earthquake of 2009. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2010, 43, 24-40.	0.2	25
54	Attenuation in the mantle wedge beneath super-volcanoes of the Taupo Volcanic Zone, New Zealand. <i>Geophysical Journal International</i> , 2020, 220, 703-723.	1.0	24

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55	Seismicity in the Rotorua and Kawerau geothermal systems, Taupo Volcanic Zone, New Zealand, based on improved velocity models and cross-correlation measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 180, 50-66.	0.8	23
56	Imaging P and S attenuation in the termination region of the Hikurangi subduction zone, New Zealand. <i>Geophysical Journal International</i> , 2014, 198, 516-536.	1.0	23
57	Structural heterogeneity of the midcrust adjacent to the central Alpine Fault, New Zealand: Inferences from seismic tomography and seismicity between Hikurangi and Ross. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1017-1043.	1.0	23
58	Off-axis magmatism along a subaerial back-arc rift: Observations from the Taupo Volcanic Zone, New Zealand. <i>Science Advances</i> , 2016, 2, e1600288.	4.7	23
59	Detailed fault structure highlighted by finely relocated aftershocks, Arthur's Pass, New Zealand. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	22
60	Shear velocity structure of the Northland Peninsula, New Zealand, inferred from ambient noise correlations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
61	Crustal shear wave tomography of the Taupo Volcanic Zone, New Zealand, via ambient noise correlation between multiple three-component networks. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	1.0	22
62	Subducting an old subduction zone sideways provides insights into what controls plate coupling. <i>Earth and Planetary Science Letters</i> , 2017, 466, 53-61.	1.8	22
63	3-D imaging of Marlborough, New Zealand, subducted plate and strike-slip fault systems. <i>Geophysical Journal International</i> , 2010, , no-no.	1.0	21
64	Imaging the Hikurangi subduction zone, New Zealand, using teleseismic receiver functions: crustal fluids above the forearc mantle wedge. <i>Geophysical Journal International</i> , 2007, 169, 602-616.	1.0	20
65	High-resolution relocation of aftershocks of the M_w 7.1 Darfield, New Zealand, earthquake and implications for fault activity. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4184-4195.	1.4	19
66	A 3D Q - P Attenuation Model for All of New Zealand. <i>Seismological Research Letters</i> , 2015, 86, 1655-1663.	0.8	17
67	Advanced seismic imaging techniques characterize the Alpine Fault at Whataroa (New Zealand). <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8792-8812.	1.4	17
68	Strong shaking in recent New Zealand earthquakes. <i>Eos</i> , 2011, 92, 349-351.	0.1	16
69	The Pegasus Bay aftershock sequence of the M_w 7.1 Darfield (Canterbury), New Zealand earthquake. <i>Geophysical Journal International</i> , 2013, 195, 444-459.	1.0	16
70	Microseismicity at Rotokawa geothermal field, New Zealand, 2008-2012. <i>Geothermics</i> , 2015, 54, 23-34.	1.5	16
71	Mapping Stress and Structure From Subducting Slab to Magmatic Rift: Crustal Seismic Anisotropy of the North Island, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5038-5056.	1.0	15
72	Geophysical structure of the Southern Alps Orogen, South Island, New Zealand. <i>Geophysical Monograph Series</i> , 2007, , 47-72.	0.1	14

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73	Earthquake swarm activity highlights crustal faulting associated with the Waimangu "Rotomahana" Mt Tarawera geothermal field, Taupo Volcanic Zone. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 314, 49-56.	0.8	14
74	The Mw 6.6 Gisborne earthquake of 2007. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2008, 41, 266-277.	0.2	14
75	A paleoenvironmental study of subsurface Quaternary sediments at Wainuiomata, Wellington, New Zealand, and tectonic implications. <i>New Zealand Journal of Geology, and Geophysics</i> , 1993, 36, 461-473.	1.0	13
76	Seismic scattering and reverberation, Kaingaroa plateau, Taupo Volcanic Zone, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1997, 40, 375-381.	1.0	13
77	Microseismicity and "wave tomography of the central Alpine Fault, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2016, 59, 483-495.	1.0	13
78	Normal faulting through subducted oceanic crust: the 19 July 1985 earthquake of Hawke's Bay, New Zealand. <i>Tectonophysics</i> , 1989, 162, 303-313.	0.9	11
79	Comparative tomography of reverse-slip and strike-slip seismotectonic provinces in the northern South Island, New Zealand. <i>Tectonophysics</i> , 2019, 765, 172-186.	0.9	11
80	Estimating the distribution of melt beneath the Okataina Caldera, New Zealand: An integrated approach using geodesy, seismology and magnetotellurics. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 426, 107549.	0.8	11
81	Determination of fault planes in a complex aftershock sequence using two-dimensional slip inversion. <i>Geophysical Journal International</i> , 2001, 146, 134-142.	1.0	10
82	3-D P- and S-wave velocity structure along the central Alpine Fault, South Island, New Zealand. <i>Geophysical Journal International</i> , 2017, 209, 935-947.	1.0	8
83	Heterogeneous material properties "as inferred from seismic attenuation" influenced multiple fault rupture and ductile creep of the Kaikoura Mw 7.8 earthquake, New Zealand. <i>Geophysical Journal International</i> , 2021, 227, 1204-1227.	1.0	7
84	Multimode migration of scattered and converted waves for the structure of the Hikurangi slab interface, New Zealand. <i>Tectonophysics</i> , 2002, 355, 227-246.	0.9	6
85	Rocks beneath New Zealand's Central North Island: Mantle or crust?. <i>Eos</i> , 2005, 86, 538.	0.1	6
86	Stretching, Shaking, Inflating: Volcanic-Tectonic Interactions at a Rifting Silicic Caldera. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	6
87	Subduction Systems Revealed: Studies of the Hikurangi Margin. <i>Eos</i> , 2010, 91, 417-418.	0.1	5
88	Gravity interpretation profile across Hikurangi subduction zone using seismic constraints " Hawke's Bay to Hikurangi Trench. <i>Journal of the Royal Society of New Zealand</i> , 1989, 19, 385-397.	1.0	4
89	Quaternary stratigraphy, structure, and deformation of the Upper Hutt Basin, Wellington, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 1997, 40, 19-29.	1.0	4
90	A lower crustal "bright spot" under the Bay of Plenty, North Island, New Zealand. <i>Tectonophysics</i> , 2009, 472, 62-71.	0.9	4

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91	The importance of microearthquakes in crustal extension of an active rift: A case study from New Zealand. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 1556-1568.	1.4	4
92	Strong Upperâ€Plate Heterogeneity at the Hikurangi Subduction Margin (North Island, New Zealand) Imaged by Adjoint Tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	4
93	Derivation and implementation of a nonlinear experimental design criterion and its application to seismic network expansion at Kawerau geothermal field, New Zealand. <i>Geophysical Journal International</i> , 2012, 191, 686-694.	1.0	3
94	Fracturing and pore-fluid distribution in the Marlborough region, New Zealand from body-wave tomography: Implications for regional understanding of the KaikÅura area. <i>Earth and Planetary Science Letters</i> , 2022, 593, 117666.	1.8	3
95	Joint Geophysical Observations of Ice Stream Dynamics. , 2008, , 281-298.		2
96	Spatial and temporal stress field changes in the focal area of the 2016 KaikÅura earthquake, New Zealand: A multi-fault process interpretation. <i>Tectonophysics</i> , 2022, 835, 229390.	0.9	2