Stuart A Henrys

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Continuous Tremor Activity With Stable Polarization Direction Following the 2014 Large Slow Slip Event in the Hikurangi Subduction Margin Offshore New Zealand. Journal of Geophysical Research: Solid Earth, 2022, 127, e2021JB022161.	3.4	3
2	Crustal Structure of the Hikurangi Margin From SHIRE Seismic Data and the Relationship Between Forearc Structure and Shallow Megathrust Slip Behavior. Geophysical Research Letters, 2022, 49, .	4.0	8
3	Crustal Structure of the Northern Hikurangi Margin, New Zealand: Variable Accretion and Overthrusting Plate Strength Influenced by Rough Subduction. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021176.	3.4	12
4	Physical conditions and frictional properties in the source region of a slow-slip event. Nature Geoscience, 2021, 14, 334-340.	12.9	14
5	Seismicity and velocity structure in the vicinity of repeating slow slip earthquakes, northern Hikurangi subduction zone, New Zealand. Earth and Planetary Science Letters, 2021, 563, 116887.	4.4	6
6	Generating Highâ€Fidelity Reflection Images Directly From Fullâ€Waveform Inversion: Hikurangi Subduction Zone Case Study. Geophysical Research Letters, 2021, 48, e2021GL094981.	4.0	5
7	Subducted sediments, upper-plate deformation and dewatering at New Zealand's southern Hikurangi subduction margin. Earth and Planetary Science Letters, 2020, 530, 115945.	4.4	15
8	Temporal and spatial variations in seismic anisotropy and V/V ratios in a region of slow slip. Earth and Planetary Science Letters, 2020, 532, 115970.	4.4	20
9	Threeâ€Ðimensional <i>P</i> Wave Velocity Structure of the Northern Hikurangi Margin From the NZ3D Experiment: Evidence for Faultâ€Bound Anisotropy. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020433.	3.4	16
10	Hydration of the crust and upper mantle of the Hikurangi Plateau as it subducts at the southern Hikurangi margin. Earth and Planetary Science Letters, 2020, 541, 116271.	4.4	11
11	Conjugate strike-slip faulting across a subduction front driven by incipient seamount subduction. Geology, 2020, 48, 493-498.	4.4	6
12	Upper Plate Heterogeneity Along the Southern Hikurangi Margin, New Zealand. Geophysical Research Letters, 2020, 47, e2019GL085511.	4.0	11
13	Slow slip source characterized by lithological and geometric heterogeneity. Science Advances, 2020, 6, eaay3314.	10.3	95
14	Seismic and lithofacies characterization of a gravity core transect down the submarine Tuaheni Landslide Complex, NE New Zealand. Geological Society Special Publication, 2019, 477, 479-495.	1.3	5
15	Imaging the Shallow Subsurface Structure of the North Hikurangi Subduction Zone, New Zealand, Using 2â€Ð Fullâ€Waveform Inversion. Journal of Geophysical Research: Solid Earth, 2019, 124, 9049-9074.	3.4	24
16	Recycling of depleted continental mantle by subduction and plumes at the Hikurangi Plateau large igneous province, southwestern Pacific Ocean. Geology, 2019, 47, 795-798.	4.4	21
17	Ultraâ€long Duration of Seismic Ground Motion Arising From a Thick, Lowâ€Velocity Sedimentary Wedge. Journal of Geophysical Research: Solid Earth, 2019, 124, 10347-10359.	3.4	31
18	Episodic stress and fluid pressure cycling in subducting oceanic crust during slow slip. Nature Geoscience, 2019, 12, 475-481.	12.9	101

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19	Seismicity at the Northern Hikurangi Margin, New Zealand, and Investigation of the Potential Spatial and Temporal Relationships With a Shallow Slow Slip Event. Journal of Geophysical Research: Solid Earth, 2019, 124, 4751-4766.	3.4	25
20	Seismic Evidence of Magmatic Rifting in the Offshore Taupo Volcanic Zone, New Zealand. Geophysical Research Letters, 2019, 46, 12949-12957.	4.0	9
21	Seafloor Crustal Deformation on Ocean Bottom Pressure Records With Nontidal Variability Corrections: Application to Hikurangi Margin, New Zealand. Geophysical Research Letters, 2019, 46, 303-310.	4.0	20
22	Deepwater sedimentation and Cenozoic deformation in the Southern New Caledonia Trough (Northern Zealandia, SW Pacific). Marine and Petroleum Geology, 2018, 92, 764-779.	3.3	12
23	Using Tsunami Waves Reflected at the Coast to Improve Offshore Earthquake Source Parameters: Application to the 2016 Mw 7.1 Te Araroa Earthquake, New Zealand. Journal of Geophysical Research: Solid Earth, 2018, 123, 8767-8779.	3.4	16
24	Geophysical Constraints on the Relationship Between Seamount Subduction, Slow Slip, and Tremor at the North Hikurangi Subduction Zone, New Zealand. Geophysical Research Letters, 2018, 45, 12,804.	4.0	72
25	Earthquakes and Tremor Linked to Seamount Subduction During Shallow Slow Slip at the Hikurangi Margin, New Zealand. Journal of Geophysical Research: Solid Earth, 2018, 123, 6769-6783.	3.4	76
26	Widespread compression associated with Eocene Tonga-Kermadec subduction initiation. Geology, 2017, 45, 355-358.	4.4	73
27	A Fluid Pulse on the Hikurangi Subduction Margin: Evidence From a Heat Flux Transect Across the Upper Limit of Gas Hydrate Stability. Geophysical Research Letters, 2017, 44, 12,385.	4.0	25
28	Splay fault branching from the <scp>H</scp> ikurangi subduction shear zone: Implications for slow slip and fluid flow. Geochemistry, Geophysics, Geosystems, 2016, 17, 5009-5023.	2.5	23
29	Crustal structure of the Kermadec arc from MANGO seismic refraction profiles. Journal of Geophysical Research: Solid Earth, 2016, 121, 7514-7546.	3.4	29
30	Slow slip near the trench at the Hikurangi subduction zone, New Zealand. Science, 2016, 352, 701-704.	12.6	242
31	Gas hydrate accumulations related to focused fluid flow in the Pegasus Basin, southern Hikurangi Margin, New Zealand. Marine and Petroleum Geology, 2016, 77, 399-408.	3.3	26
32	Understanding the potential for tsunami generated by earthquakes on the southern Hikurangi subduction interface. New Zealand Journal of Geology, and Geophysics, 2016, 59, 70-85.	1.8	8
33	Seismic stratigraphy along the Amundsen Sea to Ross Sea continental rise: A cross-regional record of pre-glacial to glacial processes of the West Antarctic margin. Palaeogeography, Palaeoclimatology, Palaeoeclimatology, Palaeoecology, 2016, 443, 183-202.	2.3	20
34	Investigations of Shallow Slow Slip Offshore of New Zealand. Eos, 2016, 97, .	0.1	1
35	Gas migration into gas hydrateâ€bearing sediments on the southern Hikurangi margin of New Zealand. Journal of Geophysical Research: Solid Earth, 2015, 120, 725-743.	3.4	51
36	SAHKE seismicâ€scatter imaging of subduction beneath Wellington, North Island, New Zealand. Geophysical Research Letters, 2015, 42, 3240-3247.	4.0	6

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37	A combined boundary integral and Lambert's Law method for modelling multibeam backscatter data from the seafloor. Continental Shelf Research, 2015, 103, 60-69.	1.8	9
38	A seismic reflection image for the base of a tectonic plate. Nature, 2015, 518, 85-88.	27.8	100
39	Fluid budgets along the northern Hikurangi subduction margin, New Zealand: the effect of a subducting seamount on fluid pressure. Geophysical Journal International, 2015, 202, 277-297.	2.4	62
40	Slow wavespeeds and fluid overpressure in a region of shallow geodetic locking and slow slip, Hikurangi subduction margin, New Zealand. Earth and Planetary Science Letters, 2014, 389, 1-13.	4.4	74
41	Shallow methane hydrate system controls ongoing, downslope sediment transport in a lowâ€velocity active submarine landslide complex, <scp>H</scp> ikurangi <scp>M</scp> argin, <scp>N</scp> ew <scp>Z</scp> ealand. Geochemistry, Geophysics, Geosystems, 2014, 15, 4137-4156.	2.5	67
42	Revised Interface Geometry for the Hikurangi Subduction Zone, New Zealand. Seismological Research Letters, 2013, 84, 1066-1073.	1.9	163
43	SAHKE geophysical transect reveals crustal and subduction zone structure at the southern Hikurangi margin, New Zealand. Geochemistry, Geophysics, Geosystems, 2013, 14, 2063-2083.	2.5	52
44	Wide-angle OBS velocity structure and gravity modeling along the SAHKE transect, southern North Island, New Zealand. , 2013, , .		1
45	Lithostratigraphy from downhole logs in Hole AND-1B, Antarctica. , 2012, 8, 127-140.		6
46	Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. Global and Planetary Change, 2012, 80-81, 61-84.	3.5	29
47	Evolution of fluid expulsion and concentrated hydrate zones across the southern Hikurangi subduction margin, New Zealand: An analysis from depth migrated seismic data. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	74
48	Reprint of: Late Neogene climate and glacial history of the Southern Victoria Land coast from integrated drill core, seismic and outcrop data. Global and Planetary Change, 2012, 96-97, 157-180.	3.5	6
49	Neogene tectonic and climatic evolution of the Western Ross Sea, Antarctica — Chronology of events from the AND-1B drill hole. Global and Planetary Change, 2012, 96-97, 189-203.	3.5	27
50	Scientific Drilling. Scientific Drilling, 2012, , .	0.6	1
51	Geological controls on focused fluid flow through the gas hydrate stability zone on the southern Hikurangi Margin of New Zealand, evidenced from multi-channel seismic data. Marine and Petroleum Geology, 2011, 28, 1915-1931.	3.3	38
52	The potential influence of shallow gas and gas hydrates on sea floor erosion of Rock Garden, an uplifted ridge offshore of New Zealand. Geo-Marine Letters, 2010, 30, 283-303.	1.1	35
53	Seismic imaging of gas conduits beneath seafloor seep sites in a shallow marine gas hydrate province, Hikurangi Margin, New Zealand. Marine Geology, 2010, 272, 114-126.	2.1	78
54	Tectonic and geological framework for gas hydrates and cold seeps on the Hikurangi subduction margin, New Zealand. Marine Geology, 2010, 272, 26-48.	2.1	269

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55	Morphometric and critical taper analysis of the Rock Garden region, Hikurangi Margin, New Zealand: Implications for slope stability and potential tsunami generation. Marine Geology, 2010, 272, 141-153.	2.1	26
56	Focussed fluid flow on the Hikurangi Margin, New Zealand — Evidence from possible local upwarping of the base of gas hydrate stability. Marine Geology, 2010, 272, 99-113.	2.1	94
57	Testing proposed mechanisms for seafloor weakening at the top of gas hydrate stability on an uplifted submarine ridge (Rock Garden), New Zealand. Marine Geology, 2010, 272, 127-140.	2.1	32
58	Preliminary interpretation of electromagnetic, heat flow, seismic, and geochemical data for gas hydrate distribution across the Porangahau Ridge, New Zealand. Marine Geology, 2010, 272, 89-98.	2.1	45
59	Seismic reflection character of the Hikurangi subduction interface, New Zealand, in the region of repeated Gisborne slow slip events. Geophysical Journal International, 2010, 180, 34-48.	2.4	160
60	Heat Flow and Hydrologic Characteristics at the AND-1B borehole, ANDRILL McMurdo Ice Shelf Project, Antarctica. , 2010, 6, 370-378.		42
61	Foreâ€arc deformation and underplating at the northern Hikurangi margin, New Zealand. Journal of Geophysical Research, 2010, 115, .	3.3	26
62	Subduction Systems Revealed: Studies of the Hikurangi Margin. Eos, 2010, 91, 417-418.	0.1	5
63	Threeâ€dimensional velocity structure of the northern Hikurangi margin, Raukumara, New Zealand: Implications for the growth of continental crust by subduction erosion and tectonic underplating. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	48
64	Obliquity-paced Pliocene West Antarctic ice sheet oscillations. Nature, 2009, 458, 322-328.	27.8	564
65	Geometry of the Hikurangi subduction thrust and upper plate, North Island, New Zealand. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	108
66	Characterizing the seismogenic zone of a major plate boundary subduction thrust: Hikurangi Margin, New Zealand. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	142
67	Reactivation of tectonics, crustal underplating, and uplift after 60 Myr of passive subsidence, Raukumara Basin, Hikurangiâ€Kermadec fore arc, New Zealand: Implications for global growth and recycling of continents. Tectonics, 2009, 28, .	2.8	35
68	Seismic facies and stratigraphy of the Cenozoic succession in McMurdo Sound, Antarctica: Implications for tectonic, climatic and glacial history. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 260, 8-29.	2.3	86
69	Cenozoic basin evolution beneath the southern McMurdo Ice Shelf, Antarctica. Global and Planetary Change, 2008, 62, 61-76.	3.5	14
70	The discovery of a new sedimentary basin: offshore Raukumara, East Coast, North Island, New Zealand. APPEA Journal, 2008, 48, 53.	0.2	4
71	Continent-continent collision at the Pacific/Indo-Australian Plate Boundary: Background, motivation, and principal results. Geophysical Monograph Series, 2007, , 1-18.	0.1	15
72	Geophysical structure of the Southern Alps Orogen, South Island, New Zealand. Geophysical Monograph Series, 2007, , 47-72.	0.1	14

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73	Geophysical exploration and dynamics of the Alpine Fault Zone. Geophysical Monograph Series, 2007, , 207-233.	0.1	37
74	Do great earthquakes occur on the Alpine Fault in central South Island, New Zealand?. Geophysical Monograph Series, 2007, , 235-251.	0.1	84
75	Kinking of the subducting slab by escalator normal faulting beneath the North Island of New Zealand. Geology, 2006, 34, 777.	4.4	50
76	Seismic scattering signatures of smallâ€scale heterogeneities: Examples from the Mount Messenger formation, New Zealand. New Zealand Journal of Geology, and Geophysics, 2005, 48, 609-621.	1.8	2
77	Erosion of the seafloor at the top of the gas hydrate stability zone on the Hikurangi Margin, New Zealand. Geophysical Research Letters, 2005, 32, .	4.0	64
78	Improving the Resolution of Deep-Crustal Seismic Data to Study Shallow Gas Hydrates on the Hikurangi Margin, New Zealand. ASEG Extended Abstracts, 2004, 2004, 1-4.	0.1	1
79	Seismic images of gas conduits beneath vents and gas hydrates on Ritchie Ridge, Hikurangi margin, New Zealand. New Zealand Journal of Geology, and Geophysics, 2004, 47, 275-279.	1.8	36
80	Mapping the Moho beneath the Southern Alps continent-continent collision, New Zealand, using wide-angle reflections. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	14
81	Numerical models of lithospheric deformation forming the Southern Alps of New Zealand. Journal of Geophysical Research, 2003, 108, .	3.3	45
82	Conductive heat flow variations from bottom-simulating reflectors on the Hikurangi margin, New Zealand. Geophysical Research Letters, 2003, 30, .	4.0	64
83	Exploring the plate boundary structure of the North Island, New Zealand. Eos, 2003, 84, 289.	0.1	44
84	Imaging a plate boundar using double-sided onshore-offshore seismic profiling. The Leading Edge, 2003, 22, 256-260.	0.7	11
85	Multimode migration of scattered and converted waves for the structure of the Hikurangi slab interface, New Zealand. Tectonophysics, 2002, 355, 227-246.	2.2	6
86	Double-sided onshore–offshore seismic imaging of a plate boundary: "super-gathers―across South Island, New Zealand. Tectonophysics, 2002, 355, 247-263.	2.2	41
87	Three-dimensional lateral crustal thickening in continental oblique collision: an example from the Southern Alps, New Zealand. Geophysical Journal International, 2002, 150, 770-779.	2.4	28
88	GPR investigations on active faults in urban areas: the Georisc-NZ project in Wellington, New Zealand. Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes =, 2001, 333, 447-454.	0.2	5
89	Orbitally induced oscillations in the East Antarctic ice sheet at the Oligocene/Miocene boundary. Nature, 2001, 413, 719-723.	27.8	222
90	Preliminary results from a geophysical study across a modern, continent-continent collisional plate boundary — the Southern Alps, New Zealand. Tectonophysics, 1998, 288, 221-235.	2.2	97

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91	A seismic crustal section across the East Cape convergent margin, New Zealand. Tectonophysics, 1997, 269, 199-215.	2.2	26
92	Seismic stratigraphy of McMurdo Sound, Antarctica: implications for glacially influenced early Cenozoic eustatic change?. Marine Geology, 1996, 130, 79-98.	2.1	32
93	Asymmetric rifting in a continental back-arc environment, North Island, New Zealand. Journal of Volcanology and Geothermal Research, 1995, 68, 209-238.	2.1	67
94	Downwasting of the Tasman Glacier, South Island, New Zealand: Changes in the terminus region between 1971 and 1993. New Zealand Journal of Geology, and Geophysics, 1995, 38, 1-16.	1.8	49
95	Crustal structure of the offshore southern Santa Maria Basin and transverse ranges, southern California, from deep seismic reflection data. Journal of Geophysical Research, 1993, 98, 8335-8348.	3.3	5
96	Geophysical structure of the broadlandsohaaki geothermal field (New zealand). Geothermics, 1990, 19, 129-150.	3.4	18
97	A geophysical reconnaissance survey of Great Barrier Island, North Island, New Zealand. New Zealand Journal of Geology, and Geophysics, 1985, 28, 383-395.	1.8	3
98	Thermal Regime of the Northern Hikurangi Margin, New Zealand. Geophysical Journal International, 0, , .	2.4	7
99	Developing community-based scientific priorities and new drilling proposals in the southern Indian and southwestern Pacific oceans. Scientific Drilling, 0, 24, 61-70.	0.6	2