

Susan M Ellis

List of Publications by Year in descending order

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77
papers

3,549
citations

109321

35
h-index

138484

58
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78
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78
docs citations

78
times ranked

2837
citing authors

#	ARTICLE	IF	CITATIONS
1	Taupō Inflation: illustrating detection limits of magmatic inflation below Lake Taupō. <i>New Zealand Journal of Geology, and Geophysics</i> , 2023, 66, 571-588.	1.8	6
2	Stretching, Shaking, Inflating: Volcanic-Tectonic Interactions at a Rifting Silicic Caldera. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	6
3	Volcanic Unrest at Taupō Volcano in 2019: Causes, Mechanisms and Implications. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009803.	2.5	21
4	Heterogeneous material properties as inferred from seismic attenuation influenced multiple fault rupture and ductile creep of the Kaikōura Mw 7.8 earthquake, New Zealand. <i>Geophysical Journal International</i> , 2021, 227, 1204-1227.	2.4	7
5	Mechanical Implications of Creep and Partial Coupling on the World's Fastest Slipping Low-Angle Normal Fault in Southeastern Papua New Guinea. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB020117.	3.4	15
6	Coupled Evolution of Deformation, Pore Fluid Pressure, and Fluid Flow in Shallow Subduction Forearcs. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019101.	3.4	16
7	Mechanical and hydrological effects of seamount subduction on megathrust stress and slip. <i>Nature Geoscience</i> , 2020, 13, 249-255.	12.9	74
8	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.	2.4	6
9	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.	2.5	23
10	Tectonic Inheritance Following Failed Continental Subduction: A Model for Core Complex Formation in Cold, Strong Lithosphere. <i>Tectonics</i> , 2019, 38, 1742-1763.	2.8	9
11	Strength of Strained Two-Phase Mixtures: Application to Rapid Creep and Stress Amplification in Subduction Zone Merges. <i>Geophysical Research Letters</i> , 2019, 46, 169-178.	4.0	49
12	Virtual shear box experiments of stress and slip cycling within a subduction interface. <i>Earth and Planetary Science Letters</i> , 2018, 488, 27-35.	4.4	27
13	Modelling of hydrothermal fluid flow and structural architecture in an extensional basin, Ngakuru Graben, Taupo Rift, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 134-151.	2.1	7
14	Triggered Slow Slip and Afterslip on the Southern Hikurangi Subduction Zone Following the Kaikōura Earthquake. <i>Geophysical Research Letters</i> , 2018, 45, 4710-4718.	4.0	73
15	The role of protothrusts in frontal accretion and accommodation of plate convergence, Hikurangi subduction margin, New Zealand. <i>Tectonics</i> , 2018, 37, 440-468.		38
16	Detecting hazardous New Zealand faults at depth using seismic velocity gradients. <i>Earth and Planetary Science Letters</i> , 2017, 463, 333-343.	4.4	13
17	Rapid Evolution of Subduction-Related Continental Intraarc Rifts: The Taupo Rift, New Zealand. <i>Tectonics</i> , 2017, 36, 2250-2272.	2.8	52
18	Calculating regional stresses for northern Canterbury: the effect of the 2010 Darfield earthquake. <i>New Zealand Journal of Geology, and Geophysics</i> , 2016, 59, 202-212.	1.8	5

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19	The last 2 Myr of accretionary wedge construction in the central Hikurangi margin (North Island,) Tj ETQq1 1 0.784314 rgBT /Overlook 1 2661-2686.	2.5	47
20	New Zealand GPS velocity field: 1995â€“2013. New Zealand Journal of Geology, and Geophysics, 2016, 59, 5-14.	1.8	57
21	On the Coupling of Geodynamic and Resistivity Models: A Progress Report and the Way Forward. Surveys in Geophysics, 2016, 37, 81-107.	4.6	4
22	Paleomagnetic evidence for verticalâ€“axis rotations of crustal blocks in the <sc>W</sc>oodlark <sc>R</sc>ift, <sc>SE</sc> <sc>P</sc>apua <sc>N</sc>ew <sc>G</sc>uinea: Miocene to presentâ€“day kinematics in one of the world's most rapidly extending plate boundary zones. Geochemistry, Geophysics, Geosystems, 2015, 16, 2058-2081.	2.5	4
23	Fault damage zones in mechanically layered rocks: The effects of planar anisotropy. Journal of Geophysical Research: Solid Earth, 2015, 120, 5432-5452.	3.4	22
24	A phenomenological numerical approach for investigating grain size evolution in ductilely deforming rocks. Journal of Structural Geology, 2015, 76, 22-34.	2.3	19
25	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
26	Imaging P and S attenuation in the termination region of the Hikurangi subduction zone, New Zealand. Geophysical Journal International, 2014, 198, 516-536.	2.4	23
27	The effect of crustal melt on rift dynamics: case study of the Taupo Volcanic Zone. New Zealand Journal of Geology, and Geophysics, 2014, 57, 453-458.	1.8	13
28	Crustal deformation and stress transfer during a propagating earthquake sequence: The 2013 Cook Strait sequence, central New Zealand. Journal of Geophysical Research: Solid Earth, 2014, 119, 6080-6092.	3.4	45
29	Continental breakup and UHP rock exhumation in action: GPS results from the <sc>W</sc>oodlark <sc>R</sc>ift, <sc>P</sc>apua <sc>N</sc>ew <sc>G</sc>uinea. Geochemistry, Geophysics, Geosystems, 2014, 15, 4267-4290.	2.5	54
30	Induced Seismicity; Observations, Risks and Mitigation Measures at CO2 Storage Sites. Energy Procedia, 2013, 37, 4749-4756.	1.8	7
31	Hydrological effects of dipâ€“slip fault rupture on a hydrothermal plume. Journal of Geophysical Research: Solid Earth, 2013, 118, 195-211.	3.4	8
32	Energetics of normal earthquakes on dip-slip faults. Geology, 2012, 40, 279-282.	4.4	15
33	Upper plate tectonic stress state may influence interseismic coupling on subduction megathrusts. Geology, 2012, 40, 895-898.	4.4	31
34	Rheological constraints on quartz derived from scaling relationships and numerical models of sheared brittle-ductile quartz veins, central Southern Alps, New Zealand. Journal of Structural Geology, 2012, 37, 200-222.	2.3	6
35	The role of frictional plasticity in the evolution of normal fault systems. Journal of Structural Geology, 2012, 39, 122-137.	2.3	8
36	Mid-crustal controls on episodic stress-field rotation around major reverse, normal and strike-slip faults. Geological Society Special Publication, 2011, 359, 187-201.	1.3	11

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37	Feedback between rifting and diapirism can exhume ultrahigh-pressure rocks. <i>Earth and Planetary Science Letters</i> , 2011, 311, 427-438.	4.4	72
38	The role of boundary conditions in numerical models of subduction zone dynamics. <i>Tectonophysics</i> , 2011, 497, 57-70.	2.2	48
39	Diapiric exhumation of Earth's youngest (UHP) eclogites in the gneiss domes of the D'Entrecasteaux Islands, Papua New Guinea. <i>Tectonophysics</i> , 2011, 510, 39-68.	2.2	141
40	Testing proposed mechanisms for seafloor weakening at the top of gas hydrate stability on an uplifted submarine ridge (Rock Garden), New Zealand. <i>Marine Geology</i> , 2010, 272, 127-140.	2.1	32
41	Establishing a Versatile 3-D Seismic Velocity Model for New Zealand. <i>Seismological Research Letters</i> , 2010, 81, 992-1000.	1.9	115
42	Subduction Systems Revealed: Studies of the Hikurangi Margin. <i>Eos</i> , 2010, 91, 417-418.	0.1	5
43	Three-dimensional mantle lithosphere deformation at collisional plate boundaries: A subduction scissor across the South Island of New Zealand. <i>Earth and Planetary Science Letters</i> , 2010, 289, 334-346.	4.4	12
44	Complex states of stress during the normal faulting seismic cycle: Role of midcrustal postseismic creep. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
45	The Darfield (Canterbury) earthquake. <i>Bulletin of the New Zealand Society for Earthquake Engineering</i> , 2010, 43, 228-235.	0.5	60
46	Enigmatic, highly active left-lateral shear zone in southwest Japan explained by aseismic ridge collision. <i>Geology</i> , 2009, 37, 143-146.	4.4	77
47	Convective Flows in a TVZ-like Setting with a Brittle/Ductile Transition. <i>Transport in Porous Media</i> , 2009, 77, 335-355.	2.6	8
48	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.	4.4	60
49	Collisional model for rapid forearc block rotations, arc curvature, and episodic backarc rifting in subduction settings. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	96
50	Characterizing the seismogenic zone of a major plate boundary subduction thrust: Hikurangi Margin, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2009, 10, .	2.5	142
51	Kinematic constraints from GPS on oblique convergence of the Pacific and Australian Plates, central South Island, New Zealand. <i>Geophysical Monograph Series</i> , 2007, , 75-94.	0.1	37
52	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
53	Modeling strain and anisotropy along the Alpine Fault, South Island, New Zealand. <i>Geophysical Monograph Series</i> , 2007, , 289-305.	0.1	5
54	Insights into subduction-related uplift along the Hikurangi Margin, New Zealand, using numerical modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58

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55	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.	2.1	30
56	Crustal flow modes in large hot orogens. <i>Geological Society Special Publication</i> , 2006, 268, 91-145.	1.3	168
57	The numerical sandbox: comparison of model results for a shortening and an extension experiment. <i>Geological Society Special Publication</i> , 2006, 253, 29-64.	1.3	84
58	Simplified models of the Alpine Fault seismic cycle: stress transfer in the mid-crust. <i>Geophysical Journal International</i> , 2006, 166, 386-402.	2.4	54
59	Bounds on the width of mantle lithosphere flow derived from surface geodetic measurements: application to the central Southern Alps, New Zealand. <i>Geophysical Journal International</i> , 2006, 166, 403-417.	2.4	18
60	Rapid microplate rotations and backarc rifting at the transition between collision and subduction. <i>Geology</i> , 2005, 33, 857.	4.4	113
61	A Modified Terzaghi Consolidation Factor for First-Order Estimation of Overpressure Resulting From Sedimentation: Review and Synthesis. <i>Mathematical Geosciences</i> , 2005, 37, 115-123.	0.9	5
62	Erosion of the seafloor at the top of the gas hydrate stability zone on the Hikurangi Margin, New Zealand. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	64
63	Comparisons between analogue and numerical models of thrust wedge development. <i>Journal of Structural Geology</i> , 2004, 26, 1659-1675.	2.3	118
64	Imposed strain localization in the lower crust on seismic timescales. <i>Earth, Planets and Space</i> , 2004, 56, 1103-1109.	2.5	32
65	Elevated stresses and creep rates beneath the brittle-ductile transition caused by seismic faulting in the upper crust. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	93
66	Conductive heat flow variations from bottom-simulating reflectors on the Hikurangi margin, New Zealand. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	64
67	Numerical models of Alpine-type cover nappes. <i>Tectonophysics</i> , 2003, 367, 145-172.	2.2	18
68	Contrasting pressure regimes in sedimentary basins associated with a plate boundary, New Zealand. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 149-152.	3.2	1
69	Strain localization as a key to reconciling experimentally derived flow-law data with dynamic models of continental collision. <i>International Journal of Earth Sciences</i> , 2001, 90, 168-180.	1.8	27
70	Collision tectonics in the Swiss Alps: Insight from geodynamic modeling. <i>Tectonics</i> , 2000, 19, 1065-1094.	2.8	145
71	Geodynamic models of crustal-scale episodic tectonic accretion and underplating in subduction zones. <i>Journal of Geophysical Research</i> , 1999, 104, 15169-15190.	3.3	60
72	Dynamics of sediment subduction-accretion at convergent margins: Short-term modes, long-term deformation, and tectonic implications. <i>Journal of Geophysical Research</i> , 1999, 104, 17573-17601.	3.3	120

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73	Continental collision including a weak zone: the vise model and its application to the Newfoundland Appalachians. <i>Canadian Journal of Earth Sciences</i> , 1998, 35, 1323-1346.	1.3	78
74	Mechanical model for subduction-collision tectonics of Alpine-type compressional orogens. <i>Geology</i> , 1996, 24, 675.	4.4	177
75	Forces driving continental collision: Reconciling indentation and mantle subduction tectonics. <i>Geology</i> , 1996, 24, 699.	4.4	47
76	Oblique convergence of the crust driven by basal forcing: implications for length-scales of deformation and strain partitioning in orogens. <i>Geophysical Journal International</i> , 1995, 120, 24-44.	2.4	42
77	Sounding out the nest: Unobtrusive localisation of North Island brown kiwi (<i>Apteryx mantelli</i>) incubation burrows. <i>New Zealand Journal of Ecology</i> , 0, , .	1.1	1