

# David R Shelly

## List of Publications by Year in descending order

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68  
papers

5,766  
citations

109321  
35  
h-index

98798  
67  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3002  
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-volcanic tremor and low-frequency earthquake swarms. <i>Nature</i> , 2007, 446, 305-307.	27.8	771
2	Low-frequency earthquakes in Shikoku, Japan, and their relationship to episodic tremor and slip. <i>Nature</i> , 2006, 442, 188-191.	27.8	695
3	A scaling law for slow earthquakes. <i>Nature</i> , 2007, 447, 76-79.	27.8	596
4	Mechanism of deep low frequency earthquakes: Further evidence that deep non-volcanic tremor is generated by shear slip on the plate interface. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	264
5	Earthquakes triggered by silent slip events on K��lauea volcano, Hawaii. <i>Nature</i> , 2006, 442, 71-74.	27.8	183
6	Complex evolution of transient slip derived from precise tremor locations in western Shikoku, Japan. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	178
7	Fluid��faulting evolution in high definition: Connecting fault structure and frequency��magnitude variations during the 2014 Long Valley Caldera, California, earthquake swarm. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1776-1795.	3.4	171
8	Deep low��frequency earthquakes in tremor localize to the plate interface in multiple subduction zones. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	163
9	Triggered creep as a possible mechanism for delayed dynamic triggering of tremor and earthquakes. <i>Nature Geoscience</i> , 2011, 4, 384-388.	12.9	152
10	Migrating tremors illuminate complex deformation beneath the seismogenic San Andreas fault. <i>Nature</i> , 2010, 463, 648-652.	27.8	141
11	Precise tremor source locations and amplitude variations along the lower��crustal central San Andreas Fault. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	134
12	High-resolution subducting-slab structure beneath northern Honshu, Japan, revealed by double-difference tomography. <i>Geology</i> , 2004, 32, 361.	4.4	131
13	A fluid��driven earthquake swarm on the margin of the Yellowstone caldera. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 4872-4886.	3.4	125
14	A High-Resolution Seismic Catalog for the Initial 2019 Ridgecrest Earthquake Sequence: Foreshocks, Aftershocks, and Faulting Complexity. <i>Seismological Research Letters</i> , 2020, 91, 1971-1978.	1.9	112
15	Bridging the gap between seismically and geodetically detected slow earthquakes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	99
16	An autocorrelation method to detect low frequency earthquakes within tremor. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	99
17	Tidal triggering of low frequency earthquakes near Parkfield, California: Implications for fault mechanics within the brittle��ductile transition. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	86
18	Precise location of San Andreas Fault tremors near Cholame, California using seismometer clusters: Slip on the deep extension of the fault?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	78

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19	Migrating swarms of brittle-failure earthquakes in the lower crust beneath Mammoth Mountain, California. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	76
20	Possible deep fault slip preceding the 2004 Parkfield earthquake, inferred from detailed observations of tectonic tremor. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	73
21	Fluidâ€œfaulting interactions: Fractureâ€œmesh and faultâ€œvalve behavior in the February 2014 Mammoth Mountain, California, earthquake swarm. <i>Geophysical Research Letters</i> , 2015, 42, 5803-5812.	4.0	73
22	The Mw 6.0 24 August 2014 South Napa Earthquake. <i>Seismological Research Letters</i> , 2015, 86, 309-326.	1.9	70
23	Remotely triggered microearthquakes and tremor in central California following the 2010 $M_w$ 8.8 Chile earthquake. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	66
24	Lowâ€œfrequency earthquakes reveal punctuated slow slip on the deep extent of the Alpine Fault, New Zealand. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 2984-2999.	2.5	64
25	A 15-year catalog of more than 1 million lowâ€œfrequency earthquakes: Tracking tremor and slip along the deep San Andreas Fault. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3739-3753.	3.4	62
26	Periodic, Chaotic, and Doubled Earthquake Recurrence Intervals on the Deep San Andreas Fault. <i>Science</i> , 2010, 328, 1385-1388.	12.6	59
27	Constraints on the source parameters of lowâ€œfrequency earthquakes on the San Andreas Fault. <i>Geophysical Research Letters</i> , 2016, 43, 1464-1471.	4.0	59
28	Tremor reveals stress shadowing, deep postseismic creep, and depth-dependent slip recurrence on the lower-crustal San Andreas fault near Parkfield. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	56
29	Evidence for fluidâ€œtriggered slip in the 2009 Mount Rainier, Washington earthquake swarm. <i>Geophysical Research Letters</i> , 2013, 40, 1506-1512.	4.0	52
30	Renewed inflation of Long Valley Caldera, California (2011 to 2014). <i>Geophysical Research Letters</i> , 2015, 42, 5250-5257.	4.0	52
31	Seismic evidence for significant melt beneath the Long Valley Caldera, California, USA. <i>Geology</i> , 2018, 46, 799-802.	4.4	42
32	Deep fluid pathways beneath Mammoth Mountain, California, illuminated by migrating earthquake swarms. <i>Science Advances</i> , 2018, 4, eaat5258.	10.3	42
33	Inferring fault rheology from lowâ€œfrequency earthquakes on the San Andreas. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5976-5990.	3.4	39
34	A new strategy for earthquake focal mechanisms using waveformâ€œcorrelationâ€œderived relative polarities and cluster analysis: Application to the 2014 Long Valley Caldera earthquake swarm. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 8622-8641.	3.4	39
35	High-resolution subduction zone seismicity and velocity structure beneath Ibaraki Prefecture, Japan. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	38
36	Non-volcanic Tremor: A Window into the Roots of Fault Zones. , 2009, , 287-314.		35

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37	Complexity of the deep San Andreas Fault zone defined by cascading tremor. <i>Nature Geoscience</i> , 2015, 8, 145-151.	12.9	35
38	Geological constraints on the mechanisms of slow earthquakes. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 285-301.	29.7	32
39	S-Wave Triggering of Tremor beneath the Parkfield, California, Section of the San Andreas Fault by the 2011 Tohoku, Japan, Earthquake: Observations and Theory. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1541-1550.	2.3	31
40	Fortnightly modulation of San Andreas tremor and low-frequency earthquakes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8601-8605.	7.1	31
41	Anatomy of a Caldera Collapse: K�lauea 2018 Summit Seismicity Sequence in High Resolution. <i>Geophysical Research Letters</i> , 2019, 46, 14395-14403.	4.0	31
42	Brittle and ductile friction and the physics of tectonic tremor. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	30
43	Snowmelt�Triggered Earthquake Swarms at the Margin of Long Valley Caldera, California. <i>Geophysical Research Letters</i> , 2019, 46, 3698-3705.	4.0	30
44	Delayed dynamic triggering of deep tremor along the Parkfield�Cholame section of the San Andreas Fault following the 2014 M6.0 South Napa earthquake. <i>Geophysical Research Letters</i> , 2015, 42, 7916-7922.	4.0	28
45	Leveraging Deep Learning in Global 24/7 Real-Time Earthquake Monitoring at the National Earthquake Information Center. <i>Seismological Research Letters</i> , 2021, 92, 469-480.	1.9	27
46	Listening to the 2011 Magnitude 9.0 Tohoku-Oki, Japan, Earthquake. <i>Seismological Research Letters</i> , 2012, 83, 287-293.	1.9	26
47	Crustal migration of CO2-rich magmatic fluids recorded by tree-ring radiocarbon and seismicity at Mammoth Mountain, CA, USA. <i>Earth and Planetary Science Letters</i> , 2014, 390, 52-58.	4.4	26
48	Locating non-volcanic tremor along the San Andreas Fault using a multiple array source imaging technique. <i>Geophysical Journal International</i> , 2010, 183, 1485-1500.	2.4	22
49	Using Low�Frequency Earthquake Families on the San Andreas Fault as Deep Creepmeters. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 457-475.	3.4	22
50	Illuminating Faulting Complexity of the 2017 Yellowstone Maple Creek Earthquake Swarm. <i>Geophysical Research Letters</i> , 2019, 46, 2544-2552.	4.0	21
51	Hydrothermal response to a volcano�tectonic earthquake swarm, Lassen, California. <i>Geophysical Research Letters</i> , 2015, 42, 9223-9230.	4.0	20
52	3-DP- and S-wave velocity structure and low-frequency earthquake locations in the Parkfield, California region. <i>Geophysical Journal International</i> , 2016, 206, 1574-1585.	2.4	19
53	Simulations of tremor�related creep reveal a weak crustal root of the San Andreas Fault. <i>Geophysical Research Letters</i> , 2013, 40, 1300-1305.	4.0	17
54	Imaging a Crustal Low�Velocity Layer Using Reflected Seismic Waves From the 2014 Earthquake Swarm at Long Valley Caldera, California: The Magmatic System Roof?. <i>Geophysical Research Letters</i> , 2018, 45, 3481-3488.	4.0	14

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55	Kinematics of the 2015 San Ramon, California earthquake swarm: Implications for fault zone structure and driving mechanisms. <i>Earth and Planetary Science Letters</i> , 2018, 489, 135-144.	4.4	14
56	Spatial-temporal variation of low-frequency earthquake bursts near Parkfield, California. <i>Geophysical Journal International</i> , 2015, 202, 914-919.	2.4	13
57	Constraints on Friction, Dilatancy, Diffusivity, and Effective Stress From Low-Frequency Earthquake Rates on the Deep San Andreas Fault. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 583-605.	3.4	12
58	Long-term changes of earthquake inter-event times and low-frequency earthquake recurrence in central California. <i>Earth and Planetary Science Letters</i> , 2013, 368, 144-150.	4.4	11
59	Aftershocks of the 2014 South Napa, California, Earthquake: Complex Faulting on Secondary Faults. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 1100-1109.	2.3	11
60	The 2015 Fillmore Earthquake Swarm and Possible Crustal Deformation Mechanisms near the Bottom of the Eastern Ventura Basin, California. <i>Seismological Research Letters</i> , 2016, 87, 807-815.	1.9	10
61	Identification of Low-Frequency Earthquakes on the San Andreas Fault With Deep Learning. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093157.	4.0	10
62	A Big Problem for Small Earthquakes: Benchmarking Routine Magnitudes and Conversion Relationships with Coda Envelope-Derived Mw in Southern Kansas and Northern Oklahoma. <i>Bulletin of the Seismological Society of America</i> , 2022, 112, 210-225.	2.3	10
63	Earthquake-Derived Seismic Velocity Changes During the 2018 Caldera Collapse of Kilauea Volcano. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	8
64	<i>S/P</i> Amplitude Ratios Derived from Single-Component Seismograms and Their Potential Use in Constraining Focal Mechanisms for Microearthquake Sequences. <i>The Seismic Record</i> , 2022, 2, 118-126.	3.1	8
65	Geodetic Measurements of Slow-Slip Events Southeast of Parkfield, CA. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019059.	3.4	7
66	Illuminating the Voluminous Subsurface Structures of Old Faithful Geyser, Yellowstone National Park. <i>Geophysical Research Letters</i> , 2017, 44, 10,328.	4.0	4
67	Tectonic Tremor. <i>Encyclopedia of Earth Sciences Series</i> , 2013, , 1004-1006.	0.1	1
68	Preface for the special issue of "New Perspective of Subduction Zone Earthquakes". <i>Earth, Planets and Space</i> , 2015, 67, .	2.5	0