Timothy Dixon

List of Publications by Year
in descending order

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65 papers	5,195 citations	159573 30 h-index	114455 63 g-index
69 all docs	69 docs citations	69 times ranked	4000 citing authors

#	Article	IF	Citations
1	REVEL: A model for Recent plate velocities from space geodesy. Journal of Geophysical Research, 2002, 107, ETG 11-1-ETG 11-30.	3.3	896
2	Noise in GPS coordinate time series. Journal of Geophysical Research, 1999, 104, 2797-2816.	3.3	616
3	Present-day motion of the Sierra Nevada block and some tectonic implications for the Basin and Range province, North American Cordillera. Tectonics, 2000, 19, 1-24.	2.8	316
4	Subsidence and flooding in New Orleans. Nature, 2006, 441, 587-588.	27.8	315
5	New kinematic models for Pacific-North America motion from 3 Ma to present, I: Evidence for steady motion and biases in the NUVEL-1A Model. Geophysical Research Letters, 1999, 26, 1921-1924.	4.0	294
6	An introduction to the global positioning system and some geological applications. Reviews of Geophysics, 1991, 29, 249-276.	23.0	188
7	Constraints on present-day Basin and Range deformation from space geodesy. Tectonics, 1995, 14, 755-772.	2.8	163
8	Foreâ€arc motion and Cocos Ridge collision in Central America. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	155
9	Refined kinematics of the eastern California shear zone from GPS observations, 1993-1998. Journal of Geophysical Research, 2001, 106, 2245-2263.	3.3	151
10	Paleoseismology and Global Positioning System: Earthquake-cycle effects and geodetic versus geologic fault slip rates in the Eastern California shear zone. Geology, 2003, 31, 55.	4.4	130
11	Geodetic and seismic constraints on some seismogenic zone processes in Costa Rica. Journal of Geophysical Research, 2004, 109, .	3.3	112
12	Earthquake and tsunami forecasts: Relation of slow slip events to subsequent earthquake rupture. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17039-17044.	7.1	105
13	Nicoya earthquake rupture anticipated by geodetic measurement of the locked plate interface. Nature Geoscience, 2014, 7, 117-121.	12.9	102
14	A tremor and slip event on the Cocosâ€Caribbean subduction zone as measured by a global positioning system (GPS) and seismic network on the Nicoya Peninsula, Costa Rica. Journal of Geophysical Research, 2010, 115, .	3.3	94
15	Seismogenic zone structure beneath the Nicoya Peninsula, Costa Rica, from three-dimensional local earthquakeP- andS-wave tomography. Geophysical Journal International, 2006, 164, 109-124.	2.4	92
16	The 5 September 2012 Nicoya, Costa Rica M_w 7.6 earthquake rupture process from joint inversion of highâ€rate GPS, strongâ€motion, and teleseismic P wave data and its relationship to adjacent plate boundary interface properties. Journal of Geophysical Research: Solid Earth, 2013, 118, 5453-5466.	3.4	83
17	Tectonic control of subsidence and southward displacement of southeast Louisiana with respect to stable North America. Geophysical Research Letters, 2006, 33, .	4.0	81
18	Slow slip events in Costa Rica detected by continuous GPS observations, 2002â€“2011. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	74

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19	Seismogenic zone structure of the southern Middle America Trench, Costa Rica. Journal of Geophysical Research, 2003, 108, .	3.3	72
20	Accelerating uplift in the North Atlantic region as an indicator of ice loss. Nature Geoscience, 2010, 3, 404-407.	12.9	69
21	Active deformation near the Nicoya Peninsula, northwestern Costa Rica, between 1996 and 2010: Interseismic megathrust coupling. Journal of Geophysical Research, 2012, 117, .	3.3	66
22	Strain accumulation across the Carrizo segment of the San Andreas Fault, California: Impact of laterally varying crustal properties. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	65
23	Nuisance Flooding and Relative Sea-Level Rise: the Importance of Present-Day Land Motion. Scientific Reports, 2017, 7, 11197.	3.3	64
24	Kinematics of the Eastern California shear zone: Evidence for slip transfer from Owens and Saline Valley fault zones to Fish Lake Valley fault zone. Geology, 1996, 24, 339.	4.4	60
25	Multiscale postseismic behavior on a megathrust: The 2012 Nicoya earthquake, Costa Rica. Geochemistry, Geophysics, Geosystems, 2015, 16, 1848-1864.	2.5	52
26	A three-dimensional surface velocity field for the Mississippi Delta: Implications for coastal restoration and flood potential. Geology, 2015, 43, 519-522.	4.4	51
27	Kinematics of the Nicaraguan forearc from GPS geodesy. Geophysical Research Letters, 2007, 34, .	4.0	50
28	InSAR monitoring of ground deformation due to CO2 injection at an enhanced oil recovery site, West Texas. International Journal of Greenhouse Gas Control, 2015, 41, 20-28.	4.6	47
29	Influence of the earthquake cycle and lithospheric rheology on the dynamics of the Eastern California Shear Zone. Geophysical Research Letters, 2001, 28, 2731-2734.	4.0	41
30	Do slow slip events trigger large and great megathrust earthquakes?. Science Advances, 2018, 4, eaat8472.	10.3	39
31	Rapid iceberg calving following removal of tightly packed pro-glacial mÃ©lange. Nature Communications, 2019, 10, 3250.	12.8	30
32	Three-Dimensional Phase Unwrapping for Satellite Radar Interferometry, I: DEM Generation. IEEE Transactions on Geoscience and Remote Sensing, 2014, 52, 1059-1075.	6.3	28
33	Multi-year observations of BreiÃ°amerkurjÃ¶kull, a marine-terminating glacier in southeastern Iceland, using terrestrial radar interferometry. Journal of Glaciology, 2015, 61, 42-54.	2.2	28
34	Tidally driven ice speed variation at Helheim Glacier, Greenland, observed with terrestrial radar interferometry. Journal of Glaciology, 2015, 61, 301-308.	2.2	28
35	Insights into distributed plate rates across the Walker Lane from GPS geodesy. Geophysical Research Letters, 2013, 40, 4620-4624.	4.0	27
36	Surface Deformation and Induced Seismicity Due to Fluid Injection and Oil and Gas Extraction in Western Texas. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018962.	3.4	26

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37	Inflation of Long Valley Caldera from one year of continuous GPS observations. Geophysical Research Letters, 1995, 22, 195-198.	4.0	25
38	Holocene slip rate of the Wasatch fault zone, Utah, from geodetic data: Earthquake cycle effects. Geophysical Research Letters, 2003, 30, .	4.0	24
39	Precursor motion to iceberg calving at Jakobshavn IsbrÃ¦, Greenland, observed with terrestrial radar interferometry. Journal of Glaciology, 2016, 62, 1134-1142.	2.2	22
40	Slow slip events in the early part of the earthquake cycle. Journal of Geophysical Research: Solid Earth, 2017, 122, 6773-6786.	3.4	21
41	Grounding line migration through the calving season at Jakobshavn IsbrÃ¦, Greenland, observed with terrestrial radar interferometry. Cryosphere, 2018, 12, 1387-1400.	3.9	21
42	High-resolution DEM generation from spaceborne and terrestrial remote sensing data for improved volcano hazard assessment â€" A case study at Nevado del Ruiz, Colombia. Remote Sensing of Environment, 2019, 233, 111348.	11.0	20
43	Acceleration and evolution of faults: An example from the Hunter Mountainâ€"Panamint Valley fault zone, Eastern California. Earth and Planetary Science Letters, 2011, 301, 337-344.	4.4	19
44	GPS-based monitoring of surface deformation associated with CO2 injection at an enhanced oil recovery site. International Journal of Greenhouse Gas Control, 2015, 41, 116-126.	4.6	18
45	Strain release at the trench during shallow slow slip: The example of Nicoya Peninsula, Costa Rica. Geophysical Research Letters, 2017, 44, 4846-4854.	4.0	17
46	A kinematic model for the evolution of the Eastern California Shear Zone and Garlock Fault, Mojave Desert, California. Earth and Planetary Science Letters, 2018, 494, 60-68.	4.4	16
47	A New Hybrid Method for Estimating Hydrologically Induced Vertical Deformation From GRACE and a Hydrological Model: An Example From Central North America. Journal of Advances in Modeling Earth Systems, 2018, 10, 1196-1217.	3.8	15
48	Isolated Cavities Dominate Greenland Ice Sheet Dynamic Response to Lake Drainage. Geophysical Research Letters, 2021, 48, e2021GL094762.	4.0	14
49	Reconciling patterns of interseismic strain accumulation with thermal observations across the Carrizo segment of the San Andreas Fault. Earth and Planetary Science Letters, 2010, 300, 402-406.	4.4	13
50	Emerging technology monitors iceâ€sea interface at outlet glaciers. Eos, 2012, 93, 497-498.	0.1	13
51	Space geodetic observation of the deformation cycle across the Ballenas Transform, Gulf of California. Journal of Geophysical Research: Solid Earth, 2015, 120, 5843-5862.	3.4	13
52	Modeling the Contribution of Poroelastic Deformation to Postseismic Geodetic Signals. Geophysical Research Letters, 2020, 47, e2020GL086945.	4.0	13
53	Seafloor Geodesy in Shallow Water With GPS on an Anchored Spar Buoy. Journal of Geophysical Research: Solid Earth, 2019, 124, 12116-12140.	3.4	12
54	Novel Quantification of Shallow Sediment Compaction by GPS Interferometric Reflectometry and Implications for Flood Susceptibility. Geophysical Research Letters, 2020, 47, e2020GL087807.	4.0	12

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55	Annual variation of coastal uplift in Greenland as an indicator of variable and accelerating ice mass loss. Geochemistry, Geophysics, Geosystems, 2013, 14, 1569-1589.	2.5	11
56	Detailed Data Available for Recent Costa Rica Earthquake. Eos, 2013, 94, 17-18.	0.1	11
57	Acquisition of a 3 min, two-dimensional glacier velocity field with terrestrial radar interferometry. Journal of Glaciology, 2017, 63, 629-636.	2.2	11
58	Earth Scientists and Public Policy: Have We Failed New Orleans?. Eos, 2008, 89, 96-96.	0.1	10
59	Monitoring a glacier in southeastern Iceland with the portable Terrestrial Radar Interferometer. , 2012, , .		7
60	Slow Slip and Interâ€transient Locking on the Nicoya Megathrust in the Late and Early Stages of an Earthquake Cycle. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB020503.	3.4	7
61	A method for estimating ice mass loss from relative InSAR observations: Application to the VatnajÃ¶kull ice cap, Iceland. Geochemistry, Geophysics, Geosystems, 2014, 15, 108-120.	2.5	6
62	Offshore Sea Levels Measured With an Anchored Sparâ€Buoy System Using GPS Interferometric Reflectometry. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017734.	2.6	5
63	A new geological slip rate estimate for the Calico Fault, eastern California: implications for geodetic versus geologic rate estimates in the Eastern California Shear Zone. International Geology Review, 2019, 61, 1613-1641.	2.1	3
64	The May 15, 2020 M 6.5 Monte Cristo Range, Nevada, earthquake: eyes in the sky, boots on the ground, and a chance for students to learn. International Geology Review, 2022, 64, 2683-2702.	2.1	2
65	Geodetic Applications to Geomorphology. , 2021, , .		1