Timothy Dixon

List of Publications by Citations

66 papers	4,204 citations	29 h-index	64 g-index
69 ext. papers	4,593 ext. citations	6.4 avg, IF	5.3 L-index

#	Paper	IF	Citations
66	REVEL: A model for Recent plate velocities from space geodesy. *Journal of Geophysical Research*, **2002**, 107, ETG 11-1-ETG 11-30		741
65	Noise in GPS coordinate time series. *Journal of Geophysical Research*, **1999**, 104, 2797-2816		525
64	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	4.3	269
63	Space geodesy: subsidence and flooding in New Orleans. *Nature*, **2006**, 441, 587-8	50.4	240
62	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	4.9	234
61	An introduction to the global positioning system and some geological applications. *Reviews of Geophysics*, **1991**, 29, 249	23.1	153
60	Constraints on present-day Basin and Range deformation from space geodesy. *Tectonics*, **1995**, 14, 755-772	4.3	142
59	Fore-arc motion and Cocos Ridge collision in Central America. *Geochemistry, Geophysics, Geosystems* , **2009**, 10, n/a-n/a	3.6	133
58	Refined kinematics of the eastern California shear zone from GPS observations, 1993–1998. *Journal of Geophysical Research*, **2001**, 106, 2245-2263		121
57	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	5	114
56	Geodetic and seismic constraints on some seismogenic zone processes in Costa Rica. *Journal of Geophysical Research*, **2004**, 109,		91
55	Seismogenic zone structure beneath the Nicoya Peninsula, Costa Rica, from three-dimensional local earthquakeP- andS-wave tomography. *Geophysical Journal International*, **2006**, 164, 109-124	2.6	82
54	Nicoya earthquake rupture anticipated by geodetic measurement of the locked plate interface. *Nature Geoscience*, **2014**, 7, 117-121	18.3	77
53	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, 17039-44	11.5	76
52	A tremor and slip event on the Cocos-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,		73
51	Tectonic control of subsidence and southward displacement of southeast Louisiana with respect to stable North America. *Geophysical Research Letters*, **2006**, 33,	4.9	66
50	The 5 September 2012 Nicoya, Costa Rica Mw 7.6 earthquake rupture process from joint inversion of high-rate GPS, strong-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	3.6	65

49	Slow slip events in Costa Rica detected by continuous GPS observations, 2002–2011. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	65
48	Seismogenic zone structure of the southern Middle America Trench, Costa Rica. *Journal of Geophysical Research*, **2003**, 108,		59
47	Accelerating uplift in the North Atlantic region as an indicator of ice loss. *Nature Geoscience*, **2010**, 3, 404-407	18.3	58
46	Active deformation near the Nicoya Peninsula, northwestern Costa Rica, between 1996 and 2010: Interseismic megathrust coupling. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		56
45	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		56
44	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	5	52
43	Nuisance Flooding and Relative Sea-Level Rise: the Importance of Present-Day Land Motion. *Scientific Reports*, **2017**, 7, 11197	4.9	48
42	Kinematics of the Nicaraguan forearc from GPS geodesy. *Geophysical Research Letters*, **2007**, 34,	4.9	46
41	Multiscale postseismic behavior on a megathrust: The 2012 Nicoya earthquake, Costa Rica. *Geochemistry, Geophysics, Geosystems*, **2015**, 16, 1848-1864	3.6	40
40	A three-dimensional surface velocity field for the Mississippi Delta: Implications for coastal restoration and flood potential. *Geology*, **2015**, 43, 519-522	5	38
39	Influence of the earthquake cycle and lithospheric rheology on the dynamics of the Eastern California Shear Zone. *Geophysical Research Letters*, **2001**, 28, 2731-2734	4.9	36
38	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	4.2	34
37	Multi-year observations of Breiðamerkurjökull, a marine-terminating glacier in southeastern Iceland, using terrestrial radar interferometry. *Journal of Glaciology*, **2015**, 61, 42-54	3.4	26
36	Rapid iceberg calving following removal of tightly packed pro-glacial mélange. *Nature Communications*, **2019**, 10, 3250	17.4	23
35	Insights into distributed plate rates across the Walker Lane from GPS geodesy. *Geophysical Research Letters*, **2013**, 40, 4620-4624	4.9	22
34	Do slow slip events trigger large and great megathrust earthquakes?. *Science Advances*, **2018**, 4, eaat8472	14.3	22
33	Inflation of Long Valley Caldera from one year of continuous GPS observations. *Geophysical Research Letters*, **1995**, 22, 195-198	4.9	21
32	Tidally driven ice speed variation at Helheim Glacier, Greenland, observed with terrestrial radar interferometry. *Journal of Glaciology*, **2015**, 61, 301-308	3.4	20

31	Three-Dimensional Phase Unwrapping for Satellite Radar Interferometry, I: DEM Generation. *IEEE Transactions on Geoscience and Remote Sensing*, **2014**, 52, 1059-1075	8.1	20
30	Holocene slip rate of the Wasatch fault zone, Utah, from geodetic data: Earthquake cycle effects. *Geophysical Research Letters*, **2003**, 30,	4.9	20
29	Acceleration and evolution of faults: An example from the Hunter Mountain–Panamint Valley fault zone, Eastern California. *Earth and Planetary Science Letters*, **2011**, 301, 337-344	5.3	18
28	Precursor motion to iceberg calving at Jakobshavn Isbræ, Greenland, observed with terrestrial radar interferometry. *Journal of Glaciology*, **2016**, 62, 1134-1142	3.4	18
27	Grounding line migration through the calving season at Jakobshavn Isbræ, Greenland, observed with terrestrial radar interferometry. *Cryosphere*, **2018**, 12, 1387-1400	5.5	16
26	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	4.2	15
25	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	7.1	14
24	Slow slip events in the early part of the earthquake cycle. *Journal of Geophysical Research: Solid Earth*, **2017**, 122, 6773-6786	3.6	14
23	Strain release at the trench during shallow slow slip: The example of Nicoya Peninsula, Costa Rica. *Geophysical Research Letters*, **2017**, 44, 4846-4854	4.9	13
22	High-resolution DEM generation from spaceborne and terrestrial remote sensing data for improved volcano hazard assessment – A case study at Nevado del Ruiz, Colombia. *Remote Sensing of Environment*, **2019**, 233, 111348	13.2	13
21	Emerging technology monitors ice-sea interface at outlet glaciers. *Eos*, **2012**, 93, 497-498	1.5	12
20	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	5.3	12
19	Acquisition of a 3 min, two-dimensional glacier velocity field with terrestrial radar interferometry. *Journal of Glaciology*, **2017**, 63, 629-636	3.4	10
18	Annual variation of coastal uplift in Greenland as an indicator of variable and accelerating ice mass loss. *Geochemistry, Geophysics, Geosystems*, **2013**, 14, 1569-1589	3.6	10
17	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	3.6	9
16	Detailed Data Available for Recent Costa Rica Earthquake. *Eos*, **2013**, 94, 17-18	1.5	9
15	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	5.3	9
14	Novel Quantification of Shallow Sediment Compaction by GPS Interferometric Reflectometry and Implications for Flood Susceptibility. *Geophysical Research Letters*, **2020**, 47, e2020GL087807	4.9	7

13	Space geodetic observation of the deformation cycle across the Ballenas Transform, Gulf of California. *Journal of Geophysical Research: Solid Earth*, **2015**, 120, 5843-5862	3.6	7
12	Earth Scientists and Public Policy: Have We Failed New Orleans?. *Eos*, **2008**, 89, 96	1.5	7
11	Monitoring a glacier in southeastern Iceland with the portable Terrestrial Radar Interferometer **2012**,		6
10	Modeling the Contribution of Poroelastic Deformation to Postseismic Geodetic Signals. *Geophysical Research Letters*, **2020**, 47, e2020GL086945	4.9	5
9	A method for estimating ice mass loss from relative InSAR observations: Application to the Vatnajkull ice cap, Iceland. *Geochemistry, Geophysics, Geosystems*, **2014**, 15, 108-120	3.6	5
8	Seafloor Geodesy in Shallow Water With GPS on an Anchored Spar Buoy. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 12116-12140	3.6	3
7	Curbing Catastrophe: Natural Hazards and Risk Reduction in the Modern World **2017**,		3
6	Isolated Cavities Dominate Greenland Ice Sheet Dynamic Response to Lake Drainage. *Geophysical Research Letters*, **2021**, 48, e2021GL094762	4.9	2
5	Offshore Sea Levels Measured With an Anchored Spar-Buoy System Using GPS Interferometric Reflectometry. *Journal of Geophysical Research: Oceans*, **2021**, 126, e2021JC017734	3.3	1
4	Slow Slip and Inter-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	3.6	1
3	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	2.3	1
2	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*,1-20	2.3	0
1	Geodetic Applications to Geomorphology **2021**,		