Victor C Tsai

List of Publications by Year
in descending order

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99	4,398	94433 37	114465 63
papers	citations	h-index	g-index

102	102	102	3758
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Earthquake in a Maze: Compressional Rupture Branching During the 2012 M _w 8.6 Sumatra Earthquake. Science, 2012, 337, 724-726.	12.6	228
2	The Yellowstone magmatic system from the mantle plume to the upper crust. Science, 2015, 348, 773-776.	12.6	220
3	On establishing the accuracy of noise tomography travel-time measurements in a realistic medium. Geophysical Journal International, 2009, 178, 1555-1564.	2.4	165
4	Multiple CMT source analysis of the 2004 Sumatra earthquake. Geophysical Research Letters, 2005, 32, .	4.0	156
5	Iceâ€front variation and tidewater behavior on Helheim and Kangerdlugssuaq Glaciers, Greenland. Journal of Geophysical Research, 2008, 113, .	3.3	147
6	Seasonality and Increasing Frequency of Greenland Glacial Earthquakes. Science, 2006, 311, 1756-1758.	12.6	144
7	A physical model for seismic noise generation from sediment transport in rivers. Geophysical Research Letters, 2012, 39, .	4.0	141
8	A model for turbulent hydraulic fracture and application to crack propagation at glacier beds. Journal of Geophysical Research, 2010, 115, .	3.3	126
9	Marine ice-sheet profiles and stability under Coulomb basal conditions. Journal of Glaciology, 2015, 61, 205-215.	2.2	117
10	A physical model for seismic noise generation by turbulent flow in rivers. Journal of Geophysical Research F: Earth Surface, 2014, 119, 2209-2238.	2.8	110
11	A model for seasonal changes in GPS positions and seismic wave speeds due to thermoelastic and hydrologic variations. Journal of Geophysical Research, 2011, 116, .	3.3	105
12	The 2012 Sumatra great earthquake sequence. Earth and Planetary Science Letters, 2012, 351-352, 247-257.	4.4	99
13	Extracting seismic core phases with array interferometry. Geophysical Research Letters, 2013, 40, 1049-1053.	4.0	99
14	3-D crustal structure of the western United States: application of Rayleigh-wave ellipticity extracted from noise cross-correlations. Geophysical Journal International, 2014, 198, 656-670.	2.4	98
15	Spurious velocity changes caused by temporal variations in ambient noise frequency content. Geophysical Journal International, 2013, 194, 1574-1581.	2.4	97
16	Rupture complexity of the 1994 Bolivia and 2013 Sea of Okhotsk deep earthquakes. Earth and Planetary Science Letters, 2014, 385, 89-96.	4.4	96
17	Understanding the amplitudes of noise correlation measurements. Journal of Geophysical Research, 2011, 116, .	3.3	95
18	Joint inversion of Rayleigh wave phase velocity and ellipticity using USArray: Constraining velocity and density structure in the upper crust. Geophysical Research Letters, 2012, 39, .	4.0	95

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19	Multiple fluvial processes detected by riverside seismic and infrasound monitoring of a controlled flood in the Grand Canyon. Geophysical Research Letters, 2013, 40, 4858-4863.	4.0	90
20	Estimating the effect of Earth elasticity and variable water density on tsunami speeds. Geophysical Research Letters, 2013, 40, 492-496.	4.0	81
21	Using centroid time-delays to characterize source durations and identify earthquakes with unique characteristics. Earth and Planetary Science Letters, 2013, 374, 92-100.	4.4	78
22	Theoretical constraints on true polar wander. Journal of Geophysical Research, 2007, 112, .	3.3	75
23	Analysis of glacial earthquakes. Journal of Geophysical Research, 2007, 112, .	3.3	73
24	The Seismic Signature of Debris Flows: Flow Mechanics and Early Warning at Montecito, California. Geophysical Research Letters, 2018, 45, 5528-5535.	4.0	69
25	Subseasonal changes observed in subglacial channel pressure, size, and sediment transport. Geophysical Research Letters, 2016, 43, 3786-3794.	4.0	68
26	Modeling of subglacial hydrological development following rapid supraglacial lake drainage. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1127-1147.	2.8	60
27	Earthquake ground motion amplification for surface waves. Geophysical Research Letters, 2017, 44, 121-127.	4.0	59
28	Perturbational and nonperturbational inversion of Rayleigh-wave velocities. Geophysics, 2017, 82, F15-F28.	2.6	56
29	Possible mechanisms for glacial earthquakes. Journal of Geophysical Research, 2008, 113, .	3.3	54
30	The local amplification of surface waves: A new observable to constrain elastic velocities, density, and anelastic attenuation. Journal of Geophysical Research, 2012, 117, .	3.3	52
31	Seismic interferometry with antipodal station pairs. Geophysical Research Letters, 2013, 40, 4609-4613.	4.0	51
32	Site amplification, attenuation, and scattering from noise correlation amplitudes across a dense array in Long Beach, CA. Geophysical Research Letters, 2015, 42, 1360-1367.	4.0	51
33	A physical model of the highâ€frequency seismic signal generated by debris flows. Earth Surface Processes and Landforms, 2019, 44, 2529-2543.	2.5	51
34	The relationship between noise correlation and the Green's function in the presence of degeneracy and the absence of equipartition. Geophysical Journal International, 2010, 182, 1509-1514.	2.4	44
35	Particle transport mechanics and induced seismic noise in steep flume experiments with accelerometerâ€embedded tracers. Earth Surface Processes and Landforms, 2019, 44, 219-241.	2.5	44
36	Cooling magma model for deep volcanic longâ€period earthquakes. Journal of Geophysical Research: Solid Earth, 2014, 119, 8442-8456.	3.4	42

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37	An explicit relationship between time-domain noise correlation and spatial autocorrelation (SPAC) results. Geophysical Journal International, 2010, , no-no.	2.4	40
38	Anomalously steep dips of earthquakes in the 2011 Tohoku-Oki source region and possible explanations. Earth and Planetary Science Letters, 2012, 353-354, 121-133.	4.4	39
39	Expected Seismicity and the Seismic Noise Environment of Europa. Journal of Geophysical Research E: Planets, 2018, 123, 163-179.	3.6	38
40	Seismic array constraints on reach-scale bedload transport. Geology, 2017, 45, 299-302.	4.4	36
41	Ambient noise correlation on the Amery Ice Shelf, East Antarctica. Geophysical Journal International, 2014, 196, 1796-1802.	2.4	35
42	Nonperturbational surface-wave inversion: A Dix-type relation for surface waves. Geophysics, 2015, 80, EN167-EN177.	2.6	35
43	Quantifying the influence of sea ice on ocean microseism using observations from the Bering Sea, Alaska. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	31
44	Vital Signs: Seismology of Icy Ocean Worlds. Astrobiology, 2018, 18, 37-53.	3.0	31
45	Modeling Turbulent Hydraulic Fracture Near a Free Surface. Journal of Applied Mechanics, Transactions ASME, 2012, 79, .	2.2	27
46	Modeling the elastic transmission of tidal stresses to great distances inland in channelized ice streams. Cryosphere, 2014, 8, 2007-2029.	3.9	27
47	Highâ€resolution probing of inner core structure with seismic interferometry. Geophysical Research Letters, 2015, 42, 10,622.	4.0	27
48	Amplification and Attenuation Across USArray Using Ambient Noise Wavefront Tracking. Journal of Geophysical Research: Solid Earth, 2017, 122, 10,086.	3.4	27
49	An improved model for tidally modulated grounding-line migration. Journal of Glaciology, 2015, 61, 216-222.	2.2	26
50	Seismologically determined bedload flux during the typhoon season. Scientific Reports, 2015, 5, 8261.	3.3	26
51	Tidal modulation of ice shelf buttressing stresses. Annals of Glaciology, 2017, 58, 12-20.	1.4	25
52	Predicting short-period, wind-wave-generated seismic noise in coastal regions. Earth and Planetary Science Letters, 2015, 426, 280-292.	4.4	24
53	Offshore Southern California lithospheric velocity structure from noise crossâ€correlation functions. Journal of Geophysical Research: Solid Earth, 2016, 121, 3415-3427.	3.4	24
54	Measuring Basal Force Fluctuations of Debris Flows Using Seismic Recordings and Empirical Green's Functions. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2020JF005590.	2.8	24

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55	Constraints on the long-period moment-dip tradeoff for the Tohoku earthquake. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	23
56	Locating a scatterer in the active volcanic area of Southern Peru from ambient noise cross-correlation. Geophysical Journal International, 2013, 192, 1332-1341.	2.4	22
57	Evidence for non-self-similarity of microearthquakes recorded at a Taiwan borehole seismometer array. Geophysical Journal International, 2016, 206, 757-773.	2.4	22
58	Green's Functions for Surface Waves in a Generic Velocity Structure. Bulletin of the Seismological Society of America, 2014, 104, 2573-2578.	2.3	21
59	Elastic Impact Consequences for Highâ€Frequency Earthquake Ground Motion. Geophysical Research Letters, 2020, 47, e2019GL086302.	4.0	21
60	Geometric and level set tomography using ensemble Kalman inversion. Geophysical Journal International, 2020, 220, 967-980.	2.4	19
61	Extension of the Basin Rayleigh-Wave Amplification Theory to Include Basin-Edge Effects. Bulletin of the Seismological Society of America, 2020, 110, 1305-1322.	2.3	16
62	Rayleighâ€Wave H/V via Noise Cross Correlation in Southern California. Bulletin of the Seismological Society of America, 2017, 107, 2021-2027.	2.3	15
63	Frequencyâ€Dependent P Wave Polarization and Its Subwavelength Nearâ€Surface Depth Sensitivity. Geophysical Research Letters, 2019, 46, 14377-14384.	4.0	15
64	Fault Interactions Enhance Highâ€Frequency Earthquake Radiation. Geophysical Research Letters, 2021, 48, e2021GL095271.	4.0	15
65	Are secular correlations between sunspots, geomagnetic activity, and global temperature significant?. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	14
66	Explaining extreme ground motion in Osaka basin during the 2011 Tohoku earthquake. Geophysical Research Letters, 2017, 44, 7239-7244.	4.0	14
67	A 3D Broadband Seismometer Array Experiment at the Homestake Mine. Seismological Research Letters, 2018, 89, 2420-2429.	1.9	14
68	Earthquake Source Complexity Controls the Frequency Dependence of Nearâ€Source Radiation Patterns. Geophysical Research Letters, 2021, 48, e2021GL095022.	4.0	14
69	The morning glory wave of southern California. Journal of Geophysical Research, 2004, 109, .	3.3	11
70	Seismologically Observed Spatiotemporal Drainage Activity at Moulins. Journal of Geophysical Research: Solid Earth, 2017, 122, 9095-9108.	3.4	11
71	Impact Versus Frictional Earthquake Models for Highâ€Frequency Radiation in Complex Fault Zones. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022313.	3.4	11
72	Coherenceâ€Based Approaches for Estimating the Composition of the Seismic Wavefield. Journal of Geophysical Research: Solid Earth, 2019, 124, 2941-2956.	3.4	9

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73	Perturbational and nonperturbational inversion of Love-wave velocities. Geophysics, 2020, 85, F19-F26.	2.6	9
74	Did Oldham Discover the Core After All? Handling Imprecise Historical Data with Hierarchical Bayesian Model Selection Methods. Seismological Research Letters, 2020, 91, 1377-1383.	1.9	9
75	ModellingPwaves in seismic noise correlations: advancing fault monitoring using train traffic sources. Geophysical Journal International, 2021, 228, 1556-1567.	2.4	9
76	Toward automated directivity estimates in earthquake moment tensor inversion. Geophysical Journal International, 2017, 211, 1062-1076.	2.4	8
77	Evidence for Fluid Migration During the 2016 Meinong, Taiwan, Aftershock Sequence. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019994.	3.4	8
78	A unified model for transient subglacial water pressure and basal sliding. Journal of Glaciology, 2022, 68, 390-400.	2.2	8
79	A model for subglacial flooding through a preexisting hydrological network during the rapid drainage of supraglacial lakes. Journal of Geophysical Research F: Earth Surface, 2015, 120, 580-603.	2.8	7
80	Was the Mw 7.5 1952 Kern County, California, earthquake induced (or triggered)?. Journal of Seismology, 2017, 21, 1613-1621.	1.3	7
81	Bulk Structure of the Crust and Upper Mantle beneath Alaska from an Approximate Rayleigh-Wave Dispersion Formula. Seismological Research Letters, 2020, 91, 3064-3075.	1.9	7
82	A Physical Model for Volcanic Eruption Tremor. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018980.	3.4	6
83	Star patterns on lake ice. Physical Review E, 2007, 75, 066105.	2.1	5
84	Theoretical Foundations of Noise Interferometry. , 2019, , 109-143.		5
85	Direct Observations of Surfaceâ€Wave Eigenfunctions at the Homestake 3D Array. Bulletin of the Seismological Society of America, 2019, 109, 1194-1202.	2.3	5
86	A nonlinear model for resolving the temperature bias of branched glycerol dialkyl glycerol tetraether (brGDGT) temperature proxies. Geochimica Et Cosmochimica Acta, 2022, 327, 158-169.	3.9	5
87	Averaging and sampling for magnetic-observatory hourly data. Annales Geophysicae, 2010, 28, 2079-2096.	1.6	4
88	Time Scale for Rapid Draining of a Surficial Lake Into the Greenland Ice Sheet. Journal of Applied Mechanics, Transactions ASME, 2015, 82, .	2.2	4
89	A simple physics-based improvement to the positive degree day model. Journal of Glaciology, 2018, 64, 661-668.	2.2	4
90	Observations and Modeling of Longâ€Period Groundâ€Motion Amplification Across Northeast China. Geophysical Research Letters, 2018, 45, 5968-5976.	4.0	4

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91	Parsimonious Velocity Inversion Applied to the Los Angeles Basin, CA. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
92	Time-Dependent Stresses From Fluid Extraction and Diffusion With Applications to Induced Seismicity. Journal of Applied Mechanics, Transactions ASME, 2020, 87, .	2.2	3
93	Validation of a fast semi-analytic method for surface-wave propagation in layered media. Geophysical Journal International, 2019, 219, 1405-1420.	2.4	2
94	A Linear Inversion Approach to Measuring the Composition and Directionality of the Seismic Noise Field. Remote Sensing, 2021, 13, 3097.	4.0	2
95	The Relationship Between Cross Correlations and Greenâ€™s Functions in Ambient Noise Interferometry with Bayesian Constraints. Geophysical Journal International, 0, , .	2.4	2
96	A Simple Model for Deglacial Meltwater Pulses. Geophysical Research Letters, 2018, 45, 11,742.	4.0	1
97	Seismic Mapping of Subglacial Hydrology Reveals Previously Undetected Pressurization Event. Journal of Geophysical Research F: Earth Surface, 2022, 127, .	2.8	1
98	Introduction to the Special Issue on Mars Seismology. Bulletin of the Seismological Society of America, 2021, 111, 2883-2888.	2.3	1
99	Rayleigh-wave ellipticity in weakly heterogeneous layered media. Geophysical Journal International, 2021, 228, 1313-1323.	2.4	0