Charles A Langston

List of Publications by Year
in descending order

79 papers	3,104 citations	172457 29 h-index	161849 54 g-index
79 all docs	79 docs citations	79 times ranked	1767 citing authors

#	Article	IF	Citations
1	Shallow Shear-Wave Velocity Structure in Oklahoma Based on the Joint Inversion of Ambient Noise Dispersion and Teleseismic<i>P</i>-Wave Receiver Functions. Bulletin of the Seismological Society of America, 2021, 111, 654-670.	2.3	3
2	Coherence and variability of ground motion in New Madrid Seismic Zone using an array of 600Âm. Journal of Seismology, 2021, 25, 433-448.	1.3	3
3	Calibrating the 2016 IRIS Wavefields Experiment Nodal Sensors for Amplitude Statics and Orientation Errors. Bulletin of the Seismological Society of America, 2021, 111, 1303-1324.	2.3	2
4	Phased Array Analysis Incorporating the Continuous Wavelet Transform. Bulletin of the Seismological Society of America, 2021, 111, 2780-2798.	2.3	5
5	Separating the scattered wavefield from teleseismic P using curvelets on the long beach array data set. Geophysical Journal International, 2020, 220, 1112-1127.	2.4	8
6	Directionality of ambient noise in the Mississippi embayment. Geophysical Journal International, 2020, 223, 1100-1117.	2.4	3
7	Processing seismic ambient noise data with the continuous wavelet transform to obtain reliable empirical Green's functions. Geophysical Journal International, 2020, 222, 1224-1235.	2.4	16
8	Calibrating Dense Spatial Arrays for Amplitude Statics and Orientation Errors. Journal of Geophysical Research: Solid Earth, 2018, 123, 3849-3870.	3.4	11
9	A Community Experiment to Record the Full Seismic Wavefield in Oklahoma. Seismological Research Letters, 2018, 89, 1923-1930.	1.9	28
10	Velocity Structure of the Northern Mississippi Embayment Sediments, Part II: Inversion of Teleseismic<i>P</i>â€Wave Transfer Functions. Bulletin of the Seismological Society of America, 2017, 107, 106-116.	2.3	10
11	Spatio-temporal evolution of frequency-magnitude distribution and seismogenic index during initiation of induced seismicity at Guy-Greenbrier, Arkansas. Physics of the Earth and Planetary Interiors, 2017, 267, 53-66.	1.9	41
12	Velocity Structure of the Northern Mississippi Embayment Sediments, Part I: Teleseismic<i>P</i>â€Wave Spectral Ratios Analysis. Bulletin of the Seismological Society of America, 2017, 107, 97-105.	2.3	7
13	Automatic noise-removal/signal-removal based on general cross-validation thresholding in synchrosqueezed domain and its application on earthquake data. Geophysics, 2017, 82, V211-V227.	2.6	119
14	An Assessment of Crustal and Upperâ€Mantle Velocity Structure by Removing the Effect of an Ice Layer on the<i>P</i>â€Wave Response: An Application to Antarctic Seismic Studies. Bulletin of the Seismological Society of America, 2017, 107, 639-651.	2.3	3
15	Vertical seismic wave gradiometry: Application at the San Andreas Fault Observatory at Depth. Geophysics, 2016, 81, D233-D243.	2.6	5
16	Smallâ€Scale Array Experiments in Seismicâ€Wave Gradiometry. Seismological Research Letters, 2016, 87, 1091-1103.	1.9	3
17	Seismic features and automatic discrimination of deep and shallow induced-microearthquakes using neural network and logistic regression. Geophysical Journal International, 2016, 207, 29-46.	2.4	111
18	A joint local and teleseismic tomography study of the Mississippi Embayment and New Madrid Seismic Zone. Journal of Geophysical Research: Solid Earth, 2016, 121, 3570-3585.	3.4	27

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19	Imaging Shallow Crustal Structure in the Upper Mississippi Embayment Using Local Earthquake Waveform Data. Bulletin of the Seismological Society of America, 2016, 106, 1394-1406.	2.3	2
20	Adaptive noise estimation and suppression for improving microseismic event detection. Journal of Applied Geophysics, 2016, 132, 116-124.	2.1	88
21	Hybrid Seismic Denoising Using Higherâ€Order Statistics and Improved Wavelet Block Thresholding. Bulletin of the Seismological Society of America, 2016, 106, 1380-1393.	2.3	155
22	Automatic microseismic denoising and onset detection using the synchrosqueezed continuous wavelet transform. Geophysics, 2016, 81, V341-V355.	2.6	232
23	Virtual array beamforming of GPS TEC observations of coseismic ionospheric disturbances near the Geomagnetic South Pole triggered by teleseismic megathrusts. Journal of Geophysical Research: Space Physics, 2015, 120, 9087-9101.	2.4	8
24	Crustal and upper mantle velocity structure in the vicinity of the eastern Tennessee seismic zone based upon radial <i>P</i> wave transfer functions. Journal of Geophysical Research: Solid Earth, 2015, 120, 243-258.	3.4	10
25	A Closedâ€Form Solution for Earthquake Location in a Homogeneous Halfâ€Space Based on the Bancroft GPS Location Algorithm. Bulletin of the Seismological Society of America, 2015, 105, 676-685.	2.3	2
26	Average <i>Q</i>_{Lg}, <i>Q</i>_{Sn}, and observation of Lg blockage in the Continental Margin of Nova Scotia. Journal of Geophysical Research: Solid Earth, 2014, 119, 7722-7744.	3.4	26
27	Comparison of point and array-computed rotations for the TAIGER explosions of 4 March 2008. Journal of Seismology, 2012, 16, 733-743.	1.3	7
28	Correction to â€œGradiometry for polarized wavesâ€. Journal of Geophysical Research, 2012, 117, .	3.3	0
29	Wave gradiometry for USArray: Rayleigh waves. Journal of Geophysical Research, 2009, 114, .	3.3	47
30	Gradiometry for polarized seismic waves. Journal of Geophysical Research, 2008, 113, .	3.3	41
31	New evidence for Afro-Arabian plate separation in southern Afar. Geological Society Special Publication, 2006, 259, 133-141.	1.3	13
32	Regional wave propagation in Tanzania, East Africa. Journal of Geophysical Research, 2002, 107, ESE 1-1-ESE 1-18.	3.3	32
33	Mantle transition zone structure beneath Tanzania, east Africa. Geophysical Research Letters, 2000, 27, 827-830.	4.0	103
34	Pn wave velocities beneath the Tanzania Craton and adjacent rifted mobile belts, east Africa. Geophysical Research Letters, 2000, 27, 2365-2368.	4.0	22
35	Seismic evidence for a deep upper mantle thermal anomaly beneath east Africa. Geology, 2000, 28, 599-602.	4.4	3
36	Upper mantle S velocities beneath Afar and Western Saudi Arabia from Rayleigh wave dispersion. Geophysical Research Letters, 1998, 25, 4233-4236.	4.0	40

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37	Lower-crustal rifting in the Rukwa Graben, East Africa. Geophysical Journal International, 1997, 129, 412-420.	2.4	28
38	Array observations of the shear-coupled <i>PL</i> wave. Bulletin of the Seismological Society of America, 1996, 86, 538-543.	2.3	6
39	East African earthquakes below 20 km depth and their implications for crustal structure. Geophysical Journal International, 1995, 121, 49-62.	2.4	112
40	Effect of sinusoidal interfaces on teleseismic P-wave receiver functions. Geophysical Journal International, 1995, 123, 541-558.	2.4	16
41	Dipping structure under Dourbes, Belgium, determined by receiver function modeling and inversion. Bulletin of the Seismological Society of America, 1995, 85, 254-268.	2.3	39
42	Modeling<i>P-Rg</i>conversions from isolated topographic features near the NORESS array. Bulletin of the Seismological Society of America, 1995, 85, 859-873.	2.3	42
43	A numerical investigation of scattering effects for teleseismic plane wave propagation in a heterogeneous layer over a homogeneous half-space. Geophysical Journal International, 1992, 110, 486-500.	2.4	30
44	Wave Propagation Theory and Synthetic Seismograms. Reviews of Geophysics, 1991, 29, 662-670.	23.0	1
45	Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece). Geophysical Journal International, 1991, 105, 529-535.	2.4	65
46	Source parameters of some large earthquakes in Northern Aegean determined by body waveform inversion. Pure and Applied Geophysics, 1991, 135, 515-527.	1.9	68
47	A fundamental earthquake problem. Bulletin of the Seismological Society of America, 1991, 81, 2516-2519.	2.3	1
48	Observational Test for Wave Propagation Effects in Local Earthquake Seismograms. Seismological Research Letters, 1990, 61, 109-116.	1.9	4
49	Geodynamic aspects of the Loma Prieta Earthquake. Geophysical Research Letters, 1990, 17, 1457-1460.	4.0	29
50	Estimation of earthquake source parameters of the May 4, 1972 event of the Hellenic arc by the inversion of waveform data. Physics of the Earth and Planetary Interiors, 1989, 57, 225-232.	1.9	27
51	Scattering of long-period Rayleigh waves in Western North America and the interpretation of coda<i>Q</i>measurements. Bulletin of the Seismological Society of America, 1989, 79, 774-789.	2.3	9
52	Depth of faulting during the 1968 Meckering, Australia, Earthquake sequence determined from waveform analysis of local seismograms. Journal of Geophysical Research, 1987, 92, 11561-11574.	3.3	64
53	The Meckering earthquake of 14 October 1968: A possible downward propagating rupture. Bulletin of the Seismological Society of America, 1987, 77, 1558-1578.	2.3	29
54	Radiation characteristics of elastodynamic line sources buried in layered media with periodic interfaces. I. SH- wave analysis. Bulletin of the Seismological Society of America, 1987, 77, 2181-2191.	2.3	9

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55	Source parameters of the 1949 magnitude 7.1 south Puget Sound, Washington, earthquake as determined from long-period body waves and strong ground motions. Bulletin of the Seismological Society of America, 1987, 77, 1530-1557.	2.3	30
56	Crustal thickness estimate at AAE (Addis-Ababa, Ethiopia) and NAI (Nairobi, Kenya) using teleseismic P-wave conversions. Tectonophysics, 1985, 111, 299-327.	2.2	33
57	Modeling of the Koyna, India, aftershock of 12 December 1967. Bulletin of the Seismological Society of America, 1985, 75, 651-660.	2.3	30
58	The validity of ray theory approximations for the computation of teleseismic SV waves. Bulletin of the Seismological Society of America, 1985, 75, 1719-1727.	2.3	7
59	A teleseismic body-wave analysis of the May 1980 Mammoth Lakes, California, earthquakes. Bulletin of the Seismological Society of America, 1983, 73, 419-434.	2.3	52
60	Wave propagation in a three-dimensional circular basin. Bulletin of the Seismological Society of America, 1983, 73, 1637-1653.	2.3	38
61	Three-dimensional ray tracing and the method of principal curvature for geometric spreading. Bulletin of the Seismological Society of America, 1983, 73, 765-780.	2.3	13
62	Effect of structure geometry on strong ground motions: The Duwamish River Valley, Seattle, Washington. Bulletin of the Seismological Society of America, 1983, 73, 1851-1863.	2.3	11
63	Moment tensor inversions and dipping slabs. Geophysical Research Letters, 1982, 9, 1290-1293.	4.0	4
64	Point-source inversion techniques. Physics of the Earth and Planetary Interiors, 1982, 30, 228-241.	1.9	35
65	The Sharpsburg, Kentucky, earthquake of 27 July 1980. Bulletin of the Seismological Society of America, 1982, 72, 1219-1239.	2.3	25
66	Aspects of Pn and Pg propagation at regional distances. Bulletin of the Seismological Society of America, 1982, 72, 457-471.	2.3	32
67	Single-station fault plane solutions. Bulletin of the Seismological Society of America, 1982, 72, 729-744.	2.3	19
68	Comments on â€œthe corner frequency shift, earthquake source models, and<i>Q</i>,â€•by T. C. Hanks. Bulletin of the Seismological Society of America, 1982, 72, 1427-1432.	2.3	6
69	Source inversion of seismic waveforms: The Koyna, India, earthquakes of 13 September 1967. Bulletin of the Seismological Society of America, 1981, 71, 1-24.	2.3	184
70	A study of Puget Sound strong ground motion. Bulletin of the Seismological Society of America, 1981, 71, 883-903.	2.3	8
71	Inversion of teleseismic body waves for the moment tensor of the 1978 Thessaloniki, Greece, earthquake. Bulletin of the Seismological Society of America, 1981, 71, 1423-1444.	2.3	30
72	A note on spectral nulls in Rayleigh waves. Bulletin of the Seismological Society of America, 1980, 70, 1409-1414.	2.3	4

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73	A singleâ€station faultâ€Plane solution method. Geophysical Research Letters, 1979, 6, 41-44.	4.0	9
74	The February 9, 1971 San Fernando earthquake: A study of source finiteness in teleseismic body waves. Bulletin of the Seismological Society of America, 1978, 68, 1-29.	2.3	79
75	Corvallis, Oregon, crustal and upper mantle receiver structure from teleseismic<i>P</i>and<i>S</i>waves. Bulletin of the Seismological Society of America, 1977, 67, 713-724.	2.3	268
76	Modeling crustal structure through the use of converted phases in teleseismic body-wave forms. Bulletin of the Seismological Society of America, 1977, 67, 677-691.	2.3	213
77	A body wave inversion of the Koyna, India, earthquake of December 10, 1967, and some implications for body wave focal mechanisms. Journal of Geophysical Research, 1976, 81, 2517-2529.	3.3	111
78	Focal mechanism of the August 1, 1975 Oroville earthquake. Bulletin of the Seismological Society of America, 1976, 66, 1111-1120.	2.3	47
79	Teleseismic <i>P</i>-to-Rayleigh Conversions from Near-Surface Geological Structure along the Newportâ€“Inglewood Fault Zone in Long Beach, California. Bulletin of the Seismological Society of America, 0, , .	2.3	1