

Charles A Langston

List of Publications by Year in descending order

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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	Corvallis, Oregon, crustal and upper mantle receiver structure from teleseismic P and S waves. Bulletin of the Seismological Society of America, 1977, 67, 713-724.	2.3	268
2	Automatic microseismic denoising and onset detection using the synchrosqueezed continuous wavelet transform. Geophysics, 2016, 81, V341-V355.	2.6	232
3	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
4	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
5	Hybrid Seismic Denoising Using Higher-Order Statistics and Improved Wavelet Block Thresholding. Bulletin of the Seismological Society of America, 2016, 106, 1380-1393.	2.3	155
6	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
7	East African earthquakes below 20 km depth and their implications for crustal structure. Geophysical Journal International, 1995, 121, 49-62.	2.4	112
8	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
9	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
10	Mantle transition zone structure beneath Tanzania, east Africa. Geophysical Research Letters, 2000, 27, 827-830.	4.0	103
11	Adaptive noise estimation and suppression for improving microseismic event detection. Journal of Applied Geophysics, 2016, 132, 116-124.	2.1	88
12	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
13	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
14	Moment tensor inversion of the 1983 January 17 Kefallinia event of Ionian islands (Greece). Geophysical Journal International, 1991, 105, 529-535.	2.4	65
15	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
16	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
17	Wave gradiometry for USArray: Rayleigh waves. Journal of Geophysical Research, 2009, 114, .	3.3	47
18	Focal mechanism of the August 1, 1975 Oroville earthquake. Bulletin of the Seismological Society of America, 1976, 66, 1111-1120.	2.3	47

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19	Modeling P-Rg conversions from isolated topographic features near the NORESS array. Bulletin of the Seismological Society of America, 1995, 85, 859-873.	2.3	42
20	Gradiometry for polarized seismic waves. Journal of Geophysical Research, 2008, 113, .	3.3	41
21	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
22	Upper mantle S velocities beneath Afar and Western Saudi Arabia from Rayleigh wave dispersion. Geophysical Research Letters, 1998, 25, 4233-4236.	4.0	40
23	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
24	Wave propagation in a three-dimensional circular basin. Bulletin of the Seismological Society of America, 1983, 73, 1637-1653.	2.3	38
25	Point-source inversion techniques. Physics of the Earth and Planetary Interiors, 1982, 30, 228-241.	1.9	35
26	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
27	Regional wave propagation in Tanzania, East Africa. Journal of Geophysical Research, 2002, 107, ESE 1-1-ESE 1-18.	3.3	32
28	Aspects of Pn and Pg propagation at regional distances. Bulletin of the Seismological Society of America, 1982, 72, 457-471.	2.3	32
29	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
30	Modeling of the Koyna, India, aftershock of 12 December 1967. Bulletin of the Seismological Society of America, 1985, 75, 651-660.	2.3	30
31	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
32	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
33	Geodynamic aspects of the Loma Prieta Earthquake. Geophysical Research Letters, 1990, 17, 1457-1460.	4.0	29
34	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
35	Lower-crustal rifting in the Rukwa Graben, East Africa. Geophysical Journal International, 1997, 129, 412-420.	2.4	28
36	A Community Experiment to Record the Full Seismic Wavefield in Oklahoma. Seismological Research Letters, 2018, 89, 1923-1930.	1.9	28

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37	Estimation of earthquake source parameters of the May 4, 1972 event of the Hellenic arc by the inversion of waveform data. <i>Physics of the Earth and Planetary Interiors</i> , 1989, 57, 225-232.	1.9	27
38	A joint local and teleseismic tomography study of the Mississippi Embayment and New Madrid Seismic Zone. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3570-3585.	3.4	27
39	Average Q_{Lg} , Q_{Sn} , and observation of Lg blockage in the Continental Margin of Nova Scotia. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7722-7744.	3.4	26
40	The Sharpsburg, Kentucky, earthquake of 27 July 1980. <i>Bulletin of the Seismological Society of America</i> , 1982, 72, 1219-1239.	2.3	25
41	Pn wave velocities beneath the Tanzania Craton and adjacent rifted mobile belts, east Africa. <i>Geophysical Research Letters</i> , 2000, 27, 2365-2368.	4.0	22
42	Single-station fault plane solutions. <i>Bulletin of the Seismological Society of America</i> , 1982, 72, 729-744.	2.3	19
43	Effect of sinusoidal interfaces on teleseismic P-wave receiver functions. <i>Geophysical Journal International</i> , 1995, 123, 541-558.	2.4	16
44	Processing seismic ambient noise data with the continuous wavelet transform to obtain reliable empirical Green's functions. <i>Geophysical Journal International</i> , 2020, 222, 1224-1235.	2.4	16
45	New evidence for Afro-Arabian plate separation in southern Afar. <i>Geological Society Special Publication</i> , 2006, 259, 133-141.	1.3	13
46	Three-dimensional ray tracing and the method of principal curvature for geometric spreading. <i>Bulletin of the Seismological Society of America</i> , 1983, 73, 765-780.	2.3	13
47	Calibrating Dense Spatial Arrays for Amplitude Statics and Orientation Errors. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3849-3870.	3.4	11
48	Effect of structure geometry on strong ground motions: The Duwamish River Valley, Seattle, Washington. <i>Bulletin of the Seismological Society of America</i> , 1983, 73, 1851-1863.	2.3	11
49	Crustal and upper mantle velocity structure in the vicinity of the eastern Tennessee seismic zone based upon radial P wave transfer functions. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 243-258.	3.4	10
50	Velocity Structure of the Northern Mississippi Embayment Sediments, Part II: Inversion of Teleseismic P -Wave Transfer Functions. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 106-116.	2.3	10
51	A single-station fault-plane solution method. <i>Geophysical Research Letters</i> , 1979, 6, 41-44.	4.0	9
52	Radiation characteristics of elastodynamic line sources buried in layered media with periodic interfaces. I. SH-wave analysis. <i>Bulletin of the Seismological Society of America</i> , 1987, 77, 2181-2191.	2.3	9
53	Scattering of long-period Rayleigh waves in Western North America and the interpretation of coda Q measurements. <i>Bulletin of the Seismological Society of America</i> , 1989, 79, 774-789.	2.3	9
54	Virtual array beamforming of GPS TEC observations of coseismic ionospheric disturbances near the Geomagnetic South Pole triggered by teleseismic megathrusts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9087-9101.	2.4	8

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55	Separating the scattered wavefield from teleseismic P using curvelets on the long beach array data set. <i>Geophysical Journal International</i> , 2020, 220, 1112-1127.	2.4	8
56	A study of Puget Sound strong ground motion. <i>Bulletin of the Seismological Society of America</i> , 1981, 71, 883-903.	2.3	8
57	Comparison of point and array-computed rotations for the TAIGER explosions of 4 March 2008. <i>Journal of Seismology</i> , 2012, 16, 733-743.	1.3	7
58	Velocity Structure of the Northern Mississippi Embayment Sediments, Part I: Teleseismic P-Wave Spectral Ratios Analysis. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 97-105.	2.3	7
59	The validity of ray theory approximations for the computation of teleseismic SV waves. <i>Bulletin of the Seismological Society of America</i> , 1985, 75, 1719-1727.	2.3	7
60	Array observations of the shear-coupled PL wave. <i>Bulletin of the Seismological Society of America</i> , 1996, 86, 538-543.	2.3	6
61	Comments on "the corner frequency shift, earthquake source models, and Q", by T. C. Hanks. <i>Bulletin of the Seismological Society of America</i> , 1982, 72, 1427-1432.	2.3	6
62	Vertical seismic wave gradiometry: Application at the San Andreas Fault Observatory at Depth. <i>Geophysics</i> , 2016, 81, D233-D243.	2.6	5
63	Phased Array Analysis Incorporating the Continuous Wavelet Transform. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 2780-2798.	2.3	5
64	Moment tensor inversions and dipping slabs. <i>Geophysical Research Letters</i> , 1982, 9, 1290-1293.	4.0	4
65	Observational Test for Wave Propagation Effects in Local Earthquake Seismograms. <i>Seismological Research Letters</i> , 1990, 61, 109-116.	1.9	4
66	A note on spectral nulls in Rayleigh waves. <i>Bulletin of the Seismological Society of America</i> , 1980, 70, 1409-1414.	2.3	4
67	Small-scale Array Experiments in Seismic Wave Gradiometry. <i>Seismological Research Letters</i> , 2016, 87, 1091-1103.	1.9	3
68	An Assessment of Crustal and Upper-Mantle Velocity Structure by Removing the Effect of an Ice Layer on the P-Wave Response: An Application to Antarctic Seismic Studies. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 639-651.	2.3	3
69	Directionality of ambient noise in the Mississippi embayment. <i>Geophysical Journal International</i> , 2020, 223, 1100-1117.	2.4	3
70	Shallow Shear-Wave Velocity Structure in Oklahoma Based on the Joint Inversion of Ambient Noise Dispersion and Teleseismic P-Wave Receiver Functions. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 654-670.	2.3	3
71	Coherence and variability of ground motion in New Madrid Seismic Zone using an array of 600 m. <i>Journal of Seismology</i> , 2021, 25, 433-448.	1.3	3
72	Seismic evidence for a deep upper mantle thermal anomaly beneath east Africa. <i>Geology</i> , 2000, 28, 599-602.	4.4	3

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73	A Closed-Form Solution for Earthquake Location in a Homogeneous Half-Space Based on the Bancroft GPS Location Algorithm. Bulletin of the Seismological Society of America, 2015, 105, 676-685.	2.3	2
74	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
75	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
76	Wave Propagation Theory and Synthetic Seismograms. Reviews of Geophysics, 1991, 29, 662-670.	23.0	1
77	A fundamental earthquake problem. Bulletin of the Seismological Society of America, 1991, 81, 2516-2519.	2.3	1
78	Teleseismic P-to-Rayleigh Conversions from Near-Surface Geological Structure along the Newport-Inglewood Fault Zone in Long Beach, California. Bulletin of the Seismological Society of America, 0, , .	2.3	1
79	Correction to "Gradiometry for polarized waves". Journal of Geophysical Research, 2012, 117, .	3.3	0