Elizabeth Cochran

List of Publications by Year
in descending order

89 papers	4,124 citations	172207 29 h-index	128067 60 g-index
93 all docs	93 docs citations	93 times ranked	3049 citing authors

#	Article	IF	Citations
1	Potentially induced earthquakes in Oklahoma, USA: Links between wastewater injection and the 2011 Mw 5.7 earthquake sequence. Geology, 2013, 41, 699-702.	2.0	611
2	Earth Tides Can Trigger Shallow Thrust Fault Earthquakes. Science, 2004, 306, 1164-1166.	6.0	298
3	Seismic and geodetic evidence for extensive, long-lived fault damage zones. Geology, 2009, 37, 315-318.	2.0	222
4	The Quake-Catcher Network: Citizen Science Expanding Seismic Horizons. Seismological Research Letters, 2009, 80, 26-30.	0.8	166
5	Observations of static Coulomb stress triggering of the November 2011 <i>M</i>5.7 Oklahoma earthquake sequence. Journal of Geophysical Research: Solid Earth, 2014, 119, 1904-1923.	1.4	165
6	Seismic Evidence for Rock Damage and Healing on the San Andreas Fault Associated with the 2004 M 6.0 Parkfield Earthquake. Bulletin of the Seismological Society of America, 2006, 96, S349-S363.	1.1	159
7	3D fault architecture controls the dynamism of earthquake swarms. Science, 2020, 368, 1357-1361.	6.0	117
8	Aftershocks driven by afterslip and fluid pressure sweeping through a faultâ€fracture mesh. Geophysical Research Letters, 2017, 44, 8260-8267.	1.5	106
9	The limits of earthquake early warning: Timeliness of ground motion estimates. Science Advances, 2018, 4, eaaq0504.	4.7	103
10	Low-velocity damaged structure of the San Andreas Fault at Parkfield from fault zone trapped waves. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	99
11	Postseismic Fault Healing on the Rupture Zone of the 1999 M 7.1 Hector Mine, California, Earthquake. Bulletin of the Seismological Society of America, 2003, 93, 854-869.	1.1	97
12	The Limits of Earthquake Early Warning Accuracy and Best Alerting Strategy. Scientific Reports, 2019, 9, 2478.	1.6	92
13	Performance of Several Low-Cost Accelerometers. Seismological Research Letters, 2014, 85, 147-158.	0.8	89
14	Near-fault anisotropy following the Hector Mine earthquake. Journal of Geophysical Research, 2003, 108, .	3.3	78
15	Earthquake Early Warning ShakeAlert System: West Coast Wide Production Prototype. Seismological Research Letters, 2018, 89, 99-107.	0.8	74
16	2018 Oneâ€Year Seismic Hazard Forecast for the Central and Eastern United States from Induced and Natural Earthquakes. Seismological Research Letters, 2018, 89, 1049-1061.	0.8	71
17	A novel strong-motion seismic network for community participation in earthquake monitoring. IEEE Instrumentation and Measurement Magazine, 2009, 12, 8-15.	1.2	62
18	Anisotropy in the Shallow Crust Observed around the San Andreas Fault Before and After the 2004 M 6.0 Parkfield Earthquake. Bulletin of the Seismological Society of America, 2006, 96, S364-S375.	1.1	59

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19	Low stress drops observed for aftershocks of the 2011 <i>M</i>_{<i>w</i>} 5.7 Prague, Oklahoma, earthquake. Journal of Geophysical Research: Solid Earth, 2017, 122, 3813-3834.	1.4	56
20	Peak Ground Displacement Saturates Exactly When Expected: Implications for Earthquake Early Warning. Journal of Geophysical Research: Solid Earth, 2019, 124, 4642-4653.	1.4	55
21	Strong-Motion Observations of the MÂ7.8 Gorkha, Nepal, Earthquake Sequence and Development of the N-SHAKE Strong-Motion Network. Seismological Research Letters, 2015, 86, 1533-1539.	0.8	53
22	Earthquake Early Warning ShakeAlert System: Testing and Certification Platform. Seismological Research Letters, 2018, 89, 108-117.	0.8	53
23	Seismic structures of the Calico fault zone inferred from local earthquake travel time modelling. Geophysical Journal International, 2011, 186, 760-770.	1.0	52
24	Source Spectral Properties of Small to Moderate Earthquakes in Southern Kansas. Journal of Geophysical Research: Solid Earth, 2017, 122, 8021-8034.	1.4	44
25	Rapid Earthquake Characterization Using MEMS Accelerometers and Volunteer Hosts Following the M 7.2 Darfield, New Zealand, Earthquake. Bulletin of the Seismological Society of America, 2014, 104, 184-192.	1.1	42
26	How Often Can Earthquake Early Warning Systems Alert Sites With Highâ€Intensity Ground Motion?. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB017718.	1.4	41
27	How low should we go when warning for earthquakes?. Science, 2019, 366, 957-958.	6.0	38
28	Seismic velocity variations on the San Andreas fault caused by the 2004 M6 Parkfield Earthquake and their implications. Earth, Planets and Space, 2007, 59, 21-31.	0.9	35
29	Lessons from Mexicoâ€™s Earthquake Early Warning System. Eos, 2018, 99, .	0.1	34
30	Quake warnings, seismic culture. Science, 2017, 358, 1111-1111.	6.0	32
31	The Quake-Catcher Network Rapid Aftershock Mobilization Program Following the 2010 M 8.8 Maule, Chile Earthquake. Seismological Research Letters, 2011, 82, 526-532.	0.8	31
32	Poroelastic Properties of the Arbuckle Group in Oklahoma Derived from Well Fluid Level Response to the 3 September 2016<i>M</i>_wÂ5.8 Pawnee and 7 November 2016<i>M</i>_wÂ5.0 Cushing Earthquakes. Seismological Research Letters, 2017, 88, 963-970.	0.8	29
33	Event Detection Performance of the PLUM Earthquake Early Warning Algorithm in Southern California. Bulletin of the Seismological Society of America, 2019, 109, 1524-1541.	1.1	28
34	Induced Earthquake Families Reveal Distinctive Evolutionary Patterns Near Disposal Wells. Journal of Geophysical Research: Solid Earth, 2018, 123, 8045-8055.	1.4	27
35	Evidence for Latent Crustal Fluid Injection Transients in Southern California From Longâ€Duration Earthquake Swarms. Geophysical Research Letters, 2021, 48, e2021GL092465.	1.5	27
36	Aftershocks of the 2010 <i>M</i>_{<i>w</i>} 7.2 El Mayorâ€Cucapah earthquake reveal complex faulting in the Yuha Desert, California. Journal of Geophysical Research: Solid Earth, 2013, 118, 6146-6164.	1.4	25

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37	Comparison between low-cost and traditional MEMS accelerometers: a case study from the M7.1 Darfield, New Zealand, aftershock deployment. Annals of Geophysics, 2012, 54, .	0.5	25
38	The U.S. Geological Surveyâ€™s Rapid Seismic Array Deployment for the 2019 Ridgecrest Earthquake Sequence. Seismological Research Letters, 2020, 91, 1952-1960.	0.8	24
39	Infrasound events detected with the Southern California Seismic Network. Geophysical Research Letters, 2006, 33, .	1.5	22
40	Infrequent Triggering of Tremor along the San Jacinto Fault near Anza, California. Bulletin of the Seismological Society of America, 2013, 103, 2482-2497.	1.1	22
41	Multiple-fault rupture of theM7.1 Hector Mine, California, earthquake from fault zone trapped waves. Journal of Geophysical Research, 2003, 108, .	3.3	20
42	Real-Time Performance of the PLUM Earthquake Early Warning Method during the 2019 MÂ6.4 and 7.1 Ridgecrest, California, Earthquakes. Bulletin of the Seismological Society of America, 2020, 110, 1887-1903.	1.1	20
43	Sensitivity Analysis of FEMA <i>HAZUS</i> Earthquake Model: Case Study from King County, Washington. Natural Hazards Review, 2013, 14, 134-146.	0.8	19
44	3-DP- andS-wave velocity structure and low-frequency earthquake locations in the Parkfield, California region. Geophysical Journal International, 2016, 206, 1574-1585.	1.0	19
45	A unified perspective of seismicity and fault coupling along the San Andreas Fault. Science Advances, 2022, 8, eabk1167.	4.7	19
46	Delayed Seismicity Rate Changes Controlled by Static Stress Transfer. Journal of Geophysical Research: Solid Earth, 2017, 122, 7951-7965.	1.4	18
47	Delayed Dynamic Triggering of Disposalâ€Induced Earthquakes Observed by a Dense Array in Northern Oklahoma. Journal of Geophysical Research: Solid Earth, 2019, 124, 3766-3781.	1.4	18
48	Activation of optimally and unfavourably oriented faults in a uniform local stress field during the 2011 Prague, Oklahoma, sequence. Geophysical Journal International, 2020, 222, 153-168.	1.0	18
49	Minimal Clustering of Injection-Induced Earthquakes Observed with a Large-n Seismic Array. Bulletin of the Seismological Society of America, 2020, 110, 2005-2017.	1.1	18
50	Spatio-temporal evolution of Yellowstone deformation between 1992 and 2009 from InSAR and GPS observations. Bulletin of Volcanology, 2011, 73, 1407-1419.	1.1	17
51	Robust Earthquake Early Warning at a Fraction of the Cost: ASTUTI Costa Rica. AGU Advances, 2021, 2, e2021AV000407.	2.3	17
52	Using a Largeâ€‹<i>n</i> Seismic Array to Explore the Robustness of Spectral Estimations. Geophysical Research Letters, 2020, 47, e2020GL089342.	1.5	16
53	To catch a quake. Nature Communications, 2018, 9, 2508.	5.8	15
54	Shaking is Almost Always a Surprise: The Earthquakes That Produce Significant Ground Motion. Seismological Research Letters, 2021, 92, 460-468.	0.8	15

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55	The LArgeâ€n Seismic Survey in Oklahoma (LASSO) Experiment. Seismological Research Letters, 0, , .	0.8	14
56	The Induced Mw 5.0 March 2020 West Texas Seismic Sequence. Journal of Geophysical Research: Solid Earth, 2021, 126, .	1.4	14
57	Fluidâ€Earthquake and Earthquakeâ€Earthquake Interactions in Southern Kansas, USA. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020384.	1.4	14
58	The PLUM Earthquake Early Warning Algorithm: A Retrospective Case Study of West Coast, USA, Data. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021053.	1.4	14
59	Solving for Source Parameters Using Nested Array Data: A Case Study from the Canterbury, New Zealand Earthquake Sequence. Pure and Applied Geophysics, 2017, 174, 875-893.	0.8	13
60	Slowâ€Growing and Extendedâ€Duration Seismicity Swarms: Reactivating Joints or Foliations in the Cahuilla Valley Pluton, Central Peninsular Ranges, Southern California. Journal of Geophysical Research: Solid Earth, 2019, 124, 3933-3949.	1.4	13
61	Near-Field Ground Motions from the July 2019 Ridgecrest, California, Earthquake Sequence. Seismological Research Letters, 2020, 91, 1542-1555.	0.8	13
62	A century of oil-field operations and earthquakes in the greater Los Angeles Basin, southern California. The Leading Edge, 2015, 34, 650-656.	0.4	11
63	Investigation of the high-frequency attenuation parameter, Îº (kappa), from aftershocks of the 2010 Mw 8.8 Maule, Chile earthquake. Geophysical Journal International, 2015, 200, 200-215.	1.0	11
64	Strong SH â€toâ€Love Wave Scattering off the Southern California Continental Borderland. Geophysical Research Letters, 2017, 44, 10,208.	1.5	11
65	Characteristics of Frequent Dynamic Triggering of Microearthquakes in Southern California. Journal of Geophysical Research: Solid Earth, 2021, 126, .	1.4	11
66	Stress- and structure-controlled anisotropy in a region of complex faultingâ€"Yuha Desert, California. Geophysical Journal International, 2015, 202, 1109-1121.	1.0	10
67	Earthquake source characterization by the isochrone back projection method using near-source ground motions. Geophysical Journal International, 0, 182, 1058-1072.	1.0	9
68	Improved Rapid Magnitude Estimation for a Communityâ€Based, Lowâ€Cost MEMS Accelerometer Network. Bulletin of the Seismological Society of America, 2015, 105, 1314-1323.	1.1	9
69	On the Reliability of Quake-Catcher Network Earthquake Detections. Seismological Research Letters, 2015, 86, 856-869.	0.8	9
70	A Framework for Evaluating Earthquake Early Warning for an Infrastructure Network: An Idealized Case Study of a Northern California Rail System. Frontiers in Earth Science, 0, 9, .	0.8	9
71	Comment on â€œTidal synchronicity of the 26 December 2004 Sumatran earthquake and its aftershocksâ€• by R. G. M. Crockett et al.. Geophysical Research Letters, 2007, 34, .	1.5	8
72	Stress Controls Rupture Extent and Maximum Magnitude of Induced Earthquakes. Geophysical Research Letters, 2021, 48, e2020GL092148.	1.5	8

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73	Apparent earthquake rupture predictability. Geophysical Journal International, 2021, 225, 657-663.	1.0	8
74	Alert Optimization of the PLUM Earthquake Early Warning Algorithm for the Western United States. Bulletin of the Seismological Society of America, 2022, 112, 803-819.	1.1	8
75	Semiautomated tremor detection using a combined crossâ€correlation and neural network approach. Journal of Geophysical Research: Solid Earth, 2013, 118, 4827-4846.	1.4	6
76	On the powerful use of simulations in the Quake-Catcher Network to efficiently position low-cost earthquake sensors. Future Generation Computer Systems, 2013, 29, 2128-2142.	4.9	5
77	Using a modified time-reverse imaging technique to locate low-frequency earthquakes on the San Andreas Fault near Cholame, California. Geophysical Journal International, 2015, 203, 1207-1226.	1.0	5
78	Quantifying the Sensitivity of Microearthquake Slip Inversions to Station Distribution Using a Dense Nodal Array. Bulletin of the Seismological Society of America, 2022, 112, 1252-1270.	1.1	5
79	Very Low Frequency Earthquakes in Between the Seismogenic and Tremor Zones in Cascadia?. AGU Advances, 2022, 3, .	2.3	5
80	Characterizing Stress Orientations in Southern Kansas. Bulletin of the Seismological Society of America, 0, , .	1.1	4
81	What to expect when you are expecting earthquake early warning. Geophysical Journal International, 2022, 231, 1386-1403.	1.0	4
82	Fast rupture of the 2009 <i>M</i>wÂ6.9 Canal de Ballenas earthquake in the Gulf of California dynamically triggers seismicity in California. Geophysical Journal International, 2022, 230, 528-541.	1.0	3
83	The Red Atrapa Sismos (Quake-Catcher Network in Mexico): Assessing Performance during Large and Damaging Earthquakes. Seismological Research Letters, 2015, 86, 848-855.	0.8	2
84	Alongâ€Strike Variations in Fault Frictional Properties along the San Andreas Fault near Cholame, California, from Joint Earthquake and Lowâ€Frequency Earthquake Relocations. Bulletin of the Seismological Society of America, 2016, 106, 319-326.	1.1	2
85	Depth Determination of the 2010 El Mayorâ€Cucapah Earthquake Sequence (M â‰¥ 4.0). Journal of Geophysical Research: Solid Earth, 2019, 124, 6801-6814.	1.4	2
86	V S 30 and Dominant Site Frequency (fd) as Provisional Station ML Corrections (dML) in California. Bulletin of the Seismological Society of America, 2021, 111, 61-76.	1.1	2
87	Determining Moho Depth beneath Sedimentary Basins Using Regional Pn Multiples. Bulletin of the Seismological Society of America, 2019, 109, .	1.1	1
88	Wastewater Disposal Has Not Significantly Altered the Regional Stress State in Southern Kansas. Seismological Research Letters, 2021, 92, 3516-3525.	0.8	1
89	<i>Erratum to</i> V S 30 and Dominant Site Frequency fd as Provisional Station ML Corrections dML in California. Bulletin of the Seismological Society of America, 2021, 111, 2881-2881.	1.1	0