

Egill Hauksson

List of Publications by Year in descending order

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129
papers

9,400
citations

38742

50
h-index

42399

92
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130
all docs

130
docs citations

130
times ranked

4290
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismicity in a weak crust: the transtensional tectonics of the Brawley Seismic Zone section of the Pacific-North America Plate Boundary in Southern California, USA. <i>Geophysical Journal International</i> , 2022, 231, 717-735.	2.4	3
2	Southern California Earthquake Data Now Available in the AWS Cloud. <i>Seismological Research Letters</i> , 2021, 92, 3238-3247.	1.9	5
3	Latency of Waveform Data Delivery from the Southern California Seismic Network during the 2019 Ridgecrest Earthquake Sequence and Its Effect on ShakeAlert. <i>Seismological Research Letters</i> , 2021, 92, 170-186.	1.9	13
4	The Normal-Faulting 2020 Mw 5.8 Lone Pine, Eastern California, Earthquake Sequence. <i>Seismological Research Letters</i> , 2021, 92, 679-698.	1.9	11
5	How Often Can Earthquake Early Warning Systems Alert Sites With High-Intensity Ground Motion?. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017718.	3.4	41
6	Detailed 3D Fault Representations for the 2019 Ridgecrest, California, Earthquake Sequence. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1818-1831.	2.3	21
7	Regional Seismic Networks Operating along the West Coast of the United States of America. <i>Seismological Research Letters</i> , 2020, 91, 695-706.	1.9	2
8	Caltech/USGS Southern California Seismic Network (SCSN) and Southern California Earthquake Data Center (SCEDC): Data Availability for the 2019 Ridgecrest Sequence. <i>Seismological Research Letters</i> , 2020, 91, 1961-1970.	1.9	29
9	A Statistical Method for Associating Earthquakes with Their Source Faults in Southern California. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 213-225.	2.3	5
10	Determining Moho Depth beneath Sedimentary Basins Using Regional Pn Multiples. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, .	2.3	1
11	Depth Determination of the 2010 El Mayor-Cucapah Earthquake Sequence ($M \approx 4.0$). <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6801-6814.	3.4	2
12	Hierarchical interlocked orthogonal faulting in the 2019 Ridgecrest earthquake sequence. <i>Science</i> , 2019, 366, 346-351.	12.6	284
13	Methods for Amplitude Calibration and Orientation Discrepancy Measurement: Comparing Co-located Sensors of Different Types in the Southern California Seismic Network. <i>Bulletin of the Seismological Society of America</i> , 2019, 109, 1563-1570.	2.3	4
14	From Earthquake Source Parameters to Ground-Motion Warnings near You: The ShakeAlert Earthquake Information to Ground-Motion (eqInfo2GM) Method. <i>Seismological Research Letters</i> , 2019, 90, 1243-1257.	1.9	29
15	Monitoring Data Quality by Comparing Co-located Broadband and Strong-Motion Waveforms in Southern California Seismic Network. <i>Seismological Research Letters</i> , 2019, 90, 699-707.	1.9	5
16	Searching for hidden earthquakes in Southern California. <i>Science</i> , 2019, 364, 767-771.	12.6	212
17	Slow-Growing and Extended-Duration Seismicity Swarms: Reactivating Joints or Foliations in the Cahuilla Valley Pluton, Central Peninsular Ranges, Southern California. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 3933-3949.	3.4	13
18	Reliable Real-Time Seismic Signal/Noise Discrimination With Machine Learning. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 788-800.	3.4	80

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19	Applying Depth Distribution of Seismicity to Determine Thermo-Mechanical Properties of the Seismogenic Crust in Southern California: Comparing Lithotectonic Blocks. <i>Pure and Applied Geophysics</i> , 2019, 176, 1061-1081.	1.9	26
20	PhaseLink: A Deep Learning Approach to Seismic Phase Association. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 856-869.	3.4	136
21	Dissipative Intraplate Faulting During the 2016 M_w 6.2 Tottori, Japan Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 1631-1642.	3.4	26
22	Detecting Significant Stress Drop Variations in Large Micro-Earthquake Datasets: A Comparison Between a Convergent Step-Over in the San Andreas Fault and the Ventura Thrust Fault System, Southern California. <i>Pageoph Topical Volumes</i> , 2018, , 117-136.	0.2	0
23	Generalized Seismic Phase Detection with Deep Learning. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2894-2901.	2.3	291
24	Absolute Stress Fields in the Source Region of the 1992 Landers Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8874-8890.	3.4	11
25	The Station Information System (SIS): A Centralized Repository for Populating, Managing, and Distributing Metadata of the Advanced National Seismic System Stations. <i>Seismological Research Letters</i> , 2018, 89, 47-55.	1.9	7
26	Machine Learning Seismic Wave Discrimination: Application to Earthquake Early Warning. <i>Geophysical Research Letters</i> , 2018, 45, 4773-4779.	4.0	205
27	P Wave Arrival Picking and First Motion Polarity Determination With Deep Learning. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5120-5129.	3.4	333
28	Source Functions and Path Effects from Earthquakes in the Farallon Transform Fault Region, Gulf of California, Mexico that Occurred on October 2013. <i>Pageoph Topical Volumes</i> , 2018, , 45-62.	0.2	0
29	Detecting Significant Stress Drop Variations in Large Micro-Earthquake Datasets: A Comparison Between a Convergent Step-Over in the San Andreas Fault and the Ventura Thrust Fault System, Southern California. <i>Pure and Applied Geophysics</i> , 2017, 174, 2311-2330.	1.9	9
30	Evolution of seismicity near the southernmost terminus of the San Andreas Fault: Implications of recent earthquake clusters for earthquake risk in southern California. <i>Geophysical Research Letters</i> , 2017, 44, 1293-1301.	4.0	18
31	Active tectonics in the Gulf of California and seismicity ($M > 3.0$) for the period 2002–2014. <i>Tectonophysics</i> , 2017, 719-720, 4-16.	2.2	23
32	Anomalous large complete stress drop during the 2016 M_w 5.2 Borrego Springs earthquake inferred by waveform modeling and near-source aftershock deficit. <i>Geophysical Research Letters</i> , 2017, 44, 5994-6001.	4.0	28
33	Abundant off-fault seismicity and orthogonal structures in the San Jacinto fault zone. <i>Science Advances</i> , 2017, 3, e1601946.	10.3	93
34	Strong SH Love Wave Scattering off the Southern California Continental Borderland. <i>Geophysical Research Letters</i> , 2017, 44, 10,208.	4.0	11
35	Aftershocks driven by afterslip and fluid pressure sweeping through a fault fracture mesh. <i>Geophysical Research Letters</i> , 2017, 44, 8260-8267.	4.0	106
36	Source Functions and Path Effects from Earthquakes in the Farallon Transform Fault Region, Gulf of California, Mexico that Occurred on October 2013. <i>Pure and Applied Geophysics</i> , 2017, 174, 2239-2256.	1.9	9

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37	Downtown Los Angeles 52-Story High-Rise and Free-Field Response to an Oil Refinery Explosion. <i>Earthquake Spectra</i> , 2016, 32, 1793-1820.	3.1	13
38	Wastewater disposal and earthquake swarm activity at the southern end of the Central Valley, California. <i>Geophysical Research Letters</i> , 2016, 43, 1092-1099.	4.0	72
39	The Virtual Seismologist in SeisComP3: A New Implementation Strategy for Earthquake Early Warning Algorithms. <i>Seismological Research Letters</i> , 2016, 87, 363-373.	1.9	18
40	Focal mechanisms and size distribution of earthquakes beneath the Krafla central volcano, NE Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5152-5168.	3.4	10
41	The 2015 Fillmore Earthquake Swarm and Possible Crustal Deformation Mechanisms near the Bottom of the Eastern Ventura Basin, California. <i>Seismological Research Letters</i> , 2016, 87, 807-815.	1.9	10
42	An objective method for the assessment of fluid injection-induced seismicity and application to tectonically active regions in central California. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7013-7032.	3.4	30
43	Stress-drop heterogeneity within tectonically complex regions: a case study of San Geronio Pass, southern California. <i>Geophysical Journal International</i> , 2015, 202, 514-528.	2.4	44
44	Unified Structural Representation of the southern California crust and upper mantle. <i>Earth and Planetary Science Letters</i> , 2015, 415, 1-15.	4.4	149
45	Average Stress Drops of Southern California Earthquakes in the Context of Crustal Geophysics: Implications for Fault Zone Healing. <i>Pure and Applied Geophysics</i> , 2015, 172, 1359-1370.	1.9	20
46	A century of oil-field operations and earthquakes in the greater Los Angeles Basin, southern California. <i>The Leading Edge</i> , 2015, 34, 650-656.	0.7	11
47	Active Pacific North America Plate boundary tectonics as evidenced by seismicity in the oceanic lithosphere offshore Baja California, Mexico. <i>Geophysical Journal International</i> , 2014, 196, 1619-1630.	2.4	6
48	CISN ShakeAlert: An Earthquake Early Warning Demonstration System for California. <i>Advanced Technologies in Earth Sciences</i> , 2014, , 49-69.	0.9	48
49	Report on the August 2012 Brawley Earthquake Swarm in Imperial Valley, Southern California. <i>Seismological Research Letters</i> , 2013, 84, 177-189.	1.9	48
50	The tectonic crustal stress field and style of faulting along the Pacific North America Plate boundary in Southern California. <i>Geophysical Journal International</i> , 2013, 194, 100-117.	2.4	91
51	Waveform Relocated Earthquake Catalog for Southern California (1981 to June 2011). <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 2239-2244.	2.3	346
52	Computing a Large Refined Catalog of Focal Mechanisms for Southern California (1981-2010): Temporal Stability of the Style of Faulting. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 1179-1194.	2.3	152
53	Rapid Estimation of Earthquake Source and Ground-Motion Parameters for Earthquake Early Warning Using Data from a Single Three-Component Broadband or Strong-Motion Sensor. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 738-750.	2.3	51
54	Real-time Finite Fault Rupture Detector (FinDer) for large earthquakes. <i>Geophysical Journal International</i> , 2012, 191, 803-812.	2.4	82

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55	Rupture process and energy budget of the 29 July 2008 M_w 5.4 Chino Hills, California, earthquake. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
56	California Integrated Seismic Network (CISN) Local Magnitude Determination in California and Vicinity. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 2685-2693.	2.3	35
57	Evidence for Vertical Partitioning of Strike-Slip and Compressional Tectonics from Seismicity, Focal Mechanisms, and Stress Drops in the East Los Angeles Basin Area, California. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 964-974.	2.3	15
58	Crustal geophysics and seismicity in southern California. <i>Geophysical Journal International</i> , 2011, 186, 82-98.	2.4	41
59	The 2010 M_w 7.2 El Mayor-Cucapah Earthquake Sequence, Baja California, Mexico and Southernmost California, USA: Active Seismotectonics along the Mexican Pacific Margin. <i>Pure and Applied Geophysics</i> , 2011, 168, 1255-1277.	1.9	109
60	Superficial simplicity of the 2010 El Mayor-Cucapah earthquake of Baja California in Mexico. <i>Nature Geoscience</i> , 2011, 4, 615-618.	12.9	225
61	A California Statewide Three-Dimensional Seismic Velocity Model from Both Absolute and Differential Times. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 225-240.	2.3	71
62	Spatial Separation of Large Earthquakes, Aftershocks, and Background Seismicity: Analysis of Interseismic and Coseismic Seismicity Patterns in Southern California. <i>Pure and Applied Geophysics</i> , 2010, 167, 979-997.	1.9	33
63	Liquefaction caused by the 2009 Olanca, California (USA), $M_5.2$ earthquake. <i>Engineering Geology</i> , 2010, 116, 184-188.	6.3	23
64	Source Mechanism and Rupture Directivity of the 18 May 2009 M_W 4.6 Inglewood, California, Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 3269-3277.	2.3	16
65	Changes of Reporting Rates in the Southern California Earthquake Catalog, Introduced by a New Definition of ML. <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 1733-1742.	2.3	33
66	Earthquake Monitoring in Southern California for Seventy-Seven Years (1932-2008). <i>Bulletin of the Seismological Society of America</i> , 2010, 100, 423-446.	2.3	200
67	Spatial Separation of Large Earthquakes, Aftershocks, and Background Seismicity: Analysis of Interseismic and Coseismic Seismicity Patterns in Southern California. , 2010, , 125-143.		4
68	Real-time testing of the on-site warning algorithm in southern California and its performance during the July 29 2008 M_w 5.4 Chino Hills earthquake. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	72
69	A New Trigger Criterion for Improved Real-Time Performance of Onsite Earthquake Early Warning in Southern California. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 897-905.	2.3	60
70	Seismotectonics of an evolving intracontinental plate boundary, southeastern California. , 2009, , .		9
71	Preliminary Report on the 29 July 2008 M_w 5.4 Chino Hills, Eastern Los Angeles Basin, California, Earthquake Sequence. <i>Seismological Research Letters</i> , 2008, 79, 855-866.	1.9	31
72	Spectral Discrimination between Quarry Blasts and Earthquakes in Southern California. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2073-2079.	2.3	62

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73	A Search for Temporal Variations in Station Terms in Southern California from 1984 to 2002. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 2118-2132.	2.3	3
74	Community Fault Model (CFM) for Southern California. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, 1793-1802.	2.3	188
75	Regional tectonics of the Coso geothermal area along the intracontinental plate boundary in central eastern California: Three-dimensional Vp and Vp/Vs models, spatial-temporal seismicity patterns, and seismogenic deformation. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	44
76	A three-dimensional crustal seismic velocity model for southern California from a composite event method. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	62
77	Applying a three-dimensional velocity model, waveform cross correlation, and cluster analysis to locate southern California seismicity from 1981 to 2005. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	166
78	Determination of earthquake early warning parameters, \bar{I}_m and P_d , for southern California. <i>Geophysical Journal International</i> , 2007, 170, 711-717.	2.4	143
79	Fault-perpendicular aftershock clusters following the 2003 Mw = 5.0 Big Bear, California, earthquake. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	10
80	Attenuation models (QP and QS) in three dimensions of the southern California crust: Inferred fluid saturation at seismogenic depths. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	119
81	Comprehensive analysis of earthquake source spectra in southern California. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	259
82	Southern California Seismic Network Update. <i>Seismological Research Letters</i> , 2006, 77, 389-395.	1.9	11
83	An Evaluation of the SCSN Moment Tensor Solutions: Robustness of the Mw Magnitude Scale, Style of Faulting, and Automation of the Method. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 1689-1705.	2.3	83
84	Southern California Hypocenter Relocation with Waveform Cross-Correlation, Part 1: Results Using the Double-Difference Method. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 896-903.	2.3	142
85	Geophysical evidence for wedging in the San Geronio Pass structural knot, southern San Andreas fault zone, southern California. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 1554.	3.3	35
86	Southern California Hypocenter Relocation with Waveform Cross-Correlation, Part 2: Results Using Source-Specific Station Terms and Cluster Analysis. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 904-915.	2.3	186
87	Imaging the source region of the 2003 San Simeon earthquake within the weak Franciscan subduction complex, central California. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	22
88	The Seismogenic Thickness of the Southern California Crust. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 940-960.	2.3	89
89	78 TriNet: A modern ground-motion seismic network. <i>International Geophysics</i> , 2003, 81, 1275-1284.	0.6	6
90	Fault systems of the 1971 San Fernando and 1994 Northridge earthquakes, southern California: Relocated aftershocks and seismic images from LARSE II. <i>Geology</i> , 2003, 31, 171.	4.4	68

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91	Properties of the Aftershock Sequence of the 1999 Mw 7.1 Hector Mine Earthquake: Implications for Aftershock Hazard. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1227-1240.	2.3	88
92	Seismotectonics of the Coso Rangeâ€“Indian Wells Valley region, California: Transtensional deformation along the southeastern margin of the Sierran microplate. , 2002, , .		16
93	Emerging from the Stress Shadow of the 1992 Mw 7.3 Landers Southern California Earthquake? A Preliminary Assessment. <i>Seismological Research Letters</i> , 2002, 73, 33-38.	1.9	7
94	TriNet Strong-Motion Data from the M 7.1 Hector Mine, California, Earthquake of 16 October 1999. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1525-1542.	2.3	16
95	The 1999 Mw 7.1 Hector Mine, California, Earthquake Sequence: Complex Conjugate Strike-Slip Faulting. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1154-1170.	2.3	97
96	Crustal stress field in southern California and its implications for fault mechanics. <i>Journal of Geophysical Research</i> , 2001, 106, 21859-21882.	3.3	283
97	Comparison between crustal density and velocity variations in southern California. <i>Geophysical Research Letters</i> , 2001, 28, 3087-3090.	4.0	11
98	Stress Orientations Obtained from Earthquake Focal Mechanisms: What Are Appropriate Uncertainty Estimates?. <i>Bulletin of the Seismological Society of America</i> , 2001, 91, 250-262.	2.3	77
99	Southern California Seismic Network: Caltech/USGS Element of TriNet 1997-2001. <i>Seismological Research Letters</i> , 2001, 72, 690-704.	1.9	40
100	Crustal structure and seismicity distribution adjacent to the Pacific and North America plate boundary in southern California. <i>Journal of Geophysical Research</i> , 2000, 105, 13875-13903.	3.3	254
101	Role of Fluids in Faulting Inferred from Stress Field Signatures. <i>Science</i> , 1999, 285, 236-239.	12.6	163
102	Stress loading from viscous flow in the lower crust and triggering of aftershocks following the 1994 Northridge, California, Earthquake. <i>Geophysical Research Letters</i> , 1999, 26, 3209-3212.	4.0	51
103	Viscoelastic Flow in the Lower Crust after the 1992 Landers, California, Earthquake. , 1998, 282, 1689-1692.		171
104	The static stress change triggering model: Constraints from two southern California aftershock sequences. <i>Journal of Geophysical Research</i> , 1998, 103, 24427-24437.	3.3	310
105	Kinematics of postseismic relaxation from aftershock focal mechanisms of the 1994 Northridge, California, earthquake. <i>Journal of Geophysical Research</i> , 1997, 102, 24589-24603.	3.3	17
106	The seismic cycle in southern California: Precursor or response?. <i>Geophysical Research Letters</i> , 1997, 24, 469-472.	4.0	33
107	Real-time seismology and earthquake hazard mitigation. <i>Nature</i> , 1997, 390, 461-464.	27.8	147
108	Static stress drop in the 1994 Northridge, California, aftershock sequence. <i>Bulletin of the Seismological Society of America</i> , 1997, 87, 1495-1501.	2.3	20

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109	Preliminary Report on the 1995 Ridgecrest Earthquake Sequence in Eastern California. Seismological Research Letters, 1995, 66, 54-60.	1.9	37
110	The 1994 Northridge earthquake sequence in California: Seismological and tectonic aspects. Journal of Geophysical Research, 1995, 100, 12335-12355.	3.3	175
111	Global positioning system resurvey of Southern California Seismic Network stations. Bulletin of the Seismological Society of America, 1995, 85, 361-374.	2.3	0
112	State of stress from focal mechanisms before and after the 1992 Landers earthquake sequence. Bulletin of the Seismological Society of America, 1994, 84, 917-934.	2.3	131
113	The 1991 Sierra Madre earthquake sequence in southern California: Seismological and tectonic analysis. Bulletin of the Seismological Society of America, 1994, 84, 1058-1074.	2.3	36
114	Near-Field Investigations of the Landers Earthquake Sequence, April to July 1992. Science, 1993, 260, 171-176.	12.6	392
115	The 1992 Landers Earthquake Sequence: Seismological observations. Journal of Geophysical Research, 1993, 98, 19835-19858.	3.3	215
116	Rapid scientific response to Landers quake. Eos, 1992, 73, 417-417.	0.1	20
117	Initial investigation of the Landers, California, Earthquake of 28 June 1992 using TERRAScope. Geophysical Research Letters, 1992, 19, 2267-2270.	4.0	110
118	A slow earthquake in the Santa Maria basin, California. Bulletin of the Seismological Society of America, 1992, 82, 2087-2096.	2.3	43
119	Terrascope and cube project at Caltech. Eos, 1991, 72, 564-564.	0.1	38
120	Seismotectonics. Reviews of Geophysics, 1991, 29, 721-733.	23.0	3
121	Earthquakes, faulting, and stress in the Los Angeles Basin. Journal of Geophysical Research, 1990, 95, 15365-15394.	3.3	94
122	The 3 December 1988 Pasadena, California earthquake: Evidence for strike-slip motion on the Raymond fault. Bulletin of the Seismological Society of America, 1990, 80, 474-482.	2.3	33
123	The 1987 Whittier Narrows Earthquake in the Los Angeles Metropolitan Area, California. Science, 1988, 239, 1409-1412.	12.6	76
124	The Whittier Narrows, California Earthquake of October 1, 1987"Seismology. Earthquake Spectra, 1988, 4, 43-53.	3.1	10
125	Seismotectonics of the Newport-Inglewood fault zone in the Los Angeles basin, southern California. Bulletin of the Seismological Society of America, 1987, 77, 539-561.	2.3	61
126	The 1930 Santa Monica and the 1979 Malibu, California, earthquakes. Bulletin of the Seismological Society of America, 1986, 76, 1542-1559.	2.3	25

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127	Seismic imaging in Long Valley, California, by surface and borehole techniques: An investigation of active tectonics. <i>Eos</i> , 1985, 66, 194-200.	0.1	27
128	Tilt and Seismicity Changes in the Shumagin Seismic Gap. <i>Science</i> , 1983, 222, 322-325.	12.6	24
129	Seismicity, Stress State, and Style of Faulting of the Ridgecrest-Coso Region from the 1930s to 2019: Seismotectonics of an Evolving Plate Boundary Segment. <i>Bulletin of the Seismological Society of America</i> , 0, , .	2.3	10