

Keiiti Aki

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129
papers

12,907
citations

54
h-index

113
g-index

131
ext. papers

13,891
ext. citations

3.5
avg, IF

6.24
L-index

#	Paper	IF	Citations
129	Origin of coda waves: Source, attenuation, and scattering effects. <i>Journal of Geophysical Research</i> , 1975 , 80, 3322-3342		1072
128	Scaling law of seismic spectrum. <i>Journal of Geophysical Research</i> , 1967 , 72, 1217-1231		918
127	Determination of the three-dimensional seismic structure of the lithosphere. <i>Journal of Geophysical Research</i> , 1977 , 82, 277-296		658
126	Analysis of the seismic coda of local earthquakes as scattered waves. <i>Journal of Geophysical Research</i> , 1969 , 74, 615-631		594
125	Determination of three-dimensional velocity anomalies under a seismic array using first P arrival times from local earthquakes: 1. A homogeneous initial model. <i>Journal of Geophysical Research</i> , 1976 , 81, 4381-4399		486
124	Attenuation of shear-waves in the lithosphere for frequencies from 0.05 to 25 Hz. <i>Physics of the Earth and Planetary Interiors</i> , 1980 , 21, 50-60	2.3	458
123	Characterization of barriers on an earthquake fault. <i>Journal of Geophysical Research</i> , 1979 , 84, 6140		424
122	Fault plane with barriers: A versatile earthquake model. <i>Journal of Geophysical Research</i> , 1977 , 82, 5658-5670		362
121	Scattering and attenuation of shear waves in the lithosphere. <i>Journal of Geophysical Research</i> , 1980 , 85, 6496-6504		326
120	Source mechanism of volcanic tremor: fluid-driven crack models and their application to the 1963 kilauea eruption. <i>Journal of Volcanology and Geothermal Research</i> , 1977 , 2, 259-287	2.8	295
119	A specific barrier model for the quantitative description of inhomogeneous faulting and the prediction of strong ground motion. Part II. Applications of the model. <i>Bulletin of the Seismological Society of America</i> , 1983 , 73, 953-978	2.3	289
118	Discrete wave-number representation of seismic-source wave fields. <i>Bulletin of the Seismological Society of America</i> , 1977 , 67, 259-277	2.3	288
117	Fractal geometry in the San Andreas Fault System. <i>Journal of Geophysical Research</i> , 1987 , 92, 345		282
116	Asperities, barriers, characteristic earthquakes and strong motion prediction. <i>Journal of Geophysical Research</i> , 1984 , 89, 5867-5872		252
115	Surface motion of a layered medium having an irregular interface due to incident plane SH waves. <i>Journal of Geophysical Research</i> , 1970 , 75, 933-954		239
114	Deep volcanic tremor and magma ascent mechanism under Kilauea, Hawaii. <i>Journal of Geophysical Research</i> , 1981 , 86, 7095		210
113	Seismic displacements near a fault. <i>Journal of Geophysical Research</i> , 1968 , 73, 5359-5376		200

- 112 Scattering wave energy propagation in a random isotropic scattering medium: 1. Theory. *Journal of Geophysical Research*, **1991**, 96, 607 199
- 111 Site amplification of coda waves from local earthquakes in central California. *Bulletin of the Seismological Society of America*, **1986**, 76, 627-648 2.3 182
- 110 Scattering of P waves under the Montana Lasa. *Journal of Geophysical Research*, **1973**, 78, 1334-1346 180
- 109 A comparative study of scattering, intrinsic, and coda Q for Hawaii, Long Valley, and central California between 1.5 and 15.0 Hz. *Journal of Geophysical Research*, **1992**, 97, 6643 173
- 108 Local site effects on weak and strong ground motion. *Tectonophysics*, **1993**, 218, 93-111 3.1 170
- 107 Evidence of shallow fault zone strengthening after the 1992 M7.5 Landers, California, earthquake. *Science*, **1998**, 279, 217-9 33.3 166
- 106 Slow waves trapped in a fluid-filled infinite crack: Implication for volcanic tremor. *Journal of Geophysical Research*, **1987**, 92, 9215 159
- 105 Seismic guided waves trapped in the fault zone of the Landers, California, earthquake of 1992. *Journal of Geophysical Research*, **1994**, 99, 11705-11722 148
- 104 Earthquake mechanism. *Tectonophysics*, **1972**, 13, 423-446 3.1 136
- 103 Spatial and temporal correlation between coda Q and seismicity in China. *Bulletin of the Seismological Society of America*, **1988**, 78, 741-769 2.3 133
- 102 Location of seismic events and eruptive fissures on the Piton de la Fournaise volcano using seismic amplitudes. *Journal of Geophysical Research*, **2003**, 108, 130
- 101 Magnitude-frequency relation for small earthquakes: A clue to the origin of β max of large earthquakes. *Journal of Geophysical Research*, **1987**, 92, 1349 126
- 100 Simultaneous determination of the seismic moment and attenuation of seismic surface waves. *Bulletin of the Seismological Society of America*, **1969**, 59, 275-287 2.3 124
- 99 Pre-eruptive migration of earthquakes at the Piton de la Fournaise volcano (Réunion Island). *Geophysical Journal International*, **2005**, 161, 549-558 2.6 122
- 98 Multiple scattering and energy transfer of seismic waves—Separation of scattering effect from intrinsic attenuation II. Application of the theory to Hindu Kush region. *Pure and Applied Geophysics*, **1988**, 128, 49-80 2.2 112
- 97 Precise focal depth determination from amplitude spectra of surface waves. *Journal of Geophysical Research*, **1970**, 75, 5729-5744 112
- 96 Temporal change in coda Q before the Tangshan Earthquake of 1976 and the Haicheng Earthquake of 1975. *Journal of Geophysical Research*, **1986**, 91, 665 111
- 95 Introduction: Seismic wave scattering in three-dimensionally heterogeneous earth. *Pure and Applied Geophysics*, **1988**, 128, 1-6 2.2 103

94	Seismic radiation from an SH line source in a laterally heterogeneous planar fault zone. <i>Bulletin of the Seismological Society of America</i> , 1990 , 80, 971-994	2.3	98
93	Seismic monitoring and modeling of an active volcano for prediction. <i>Journal of Geophysical Research</i> , 2000 , 105, 16617-16640		96
92	A Probabilistic Synthesis of Precursory Phenomena. <i>Maurice Ewing Series</i> , 2013 , 566-574		95
91	A NOTE ON THE USE OF MICROSEISMS IN DETERMINING THE SHALLOW STRUCTURES OF THE EARTH'S CRUST. <i>Geophysics</i> , 1965 , 30, 665-666	3.1	94
90	The fractal nature of the inhomogeneities in the lithosphere evidenced from seismic wave scattering. <i>Pure and Applied Geophysics</i> , 1985 , 123, 805-818	2.2	90
89	Characteristics of seismic waves composing Hawaiian volcanic tremor and gas-piston events observed by a near-source array. <i>Journal of Geophysical Research</i> , 1991 , 96, 6199-6209		89
88	Evidence for magma intrusion during the Mammoth Lakes Earthquakes of May 1980 and implications of the absence of volcanic (harmonic) tremor. <i>Journal of Geophysical Research</i> , 1984 , 89, 7689-7696		80
87	A precise, continuous measurement of seismic velocity for monitoring in situ stress. <i>Journal of Geophysical Research</i> , 1974 , 79, 399-406		79
86	Three-dimensional seismic structure of the lithosphere under Montana Lasa. <i>Bulletin of the Seismological Society of America</i> , 1976 , 66, 501-524	2.3	75
85	Depth-dependent structure of the Landers fault zone from trapped waves generated by aftershocks. <i>Journal of Geophysical Research</i> , 2000 , 105, 6237-6254		72
84	Focal depth and mechanism of mid-ocean ridge earthquakes. <i>Journal of Geophysical Research</i> , 1973 , 78, 1818-1831		71
83	Multiple scattering of SH waves in 2-D media with many cavities. <i>Pure and Applied Geophysics</i> , 1992 , 138, 353-390	2.2	66
82	Seismicity simulation with a rate- and state-dependent friction law. <i>Pure and Applied Geophysics</i> , 1986 , 124, 487-513	2.2	66
81	Separation of intrinsic and scattering attenuation in southern California using TERRAscope data. <i>Journal of Geophysical Research</i> , 1994 , 99, 17835-17848		64
80	Seismicity simulation with a mass-spring model and a displacement hardening-softening friction law. <i>Pure and Applied Geophysics</i> , 1985 , 122, 10-24	2.2	57
79	Scattering conversions P to S versus S to P. <i>Bulletin of the Seismological Society of America</i> , 1992 , 82, 1969-1972	2.3	57
78	Mechanism of Love-Wave excitation by explosive sources. <i>Journal of Geophysical Research</i> , 1972 , 77, 1452-1475		56
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76	Solid earth tide and observed change in the in situ seismic velocity. <i>Journal of Geophysical Research</i> , 1973 , 78, 1319-1322		54
75	Mapping of the high-frequency source radiation for the Loma Prieta Earthquake, California. <i>Journal of Geophysical Research</i> , 1993 , 98, 11981-11993		53
74	Seismic properties of a shallow magma reservoir in Kilauea Iki by active and passive experiments. <i>Journal of Geophysical Research</i> , 1978 , 83, 2273		52
73	A delineation of the Nojima fault ruptured in the M7.2 Kobe, Japan, earthquake of 1995 using fault zone trapped waves. <i>Journal of Geophysical Research</i> , 1998 , 103, 7247-7263		51
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71	Study of earthquake mechanism by a method of phase equalization applied to Rayleigh and Love waves. <i>Journal of Geophysical Research</i> , 1960 , 65, 729-740		50
70	Interpretation of seismic data from hydraulic fracturing experiments at the Fenton Hill, New Mexico, hot dry rock geothermal site. <i>Journal of Geophysical Research</i> , 1982 , 87, 936-944		49
69	Some Problems in Statistical Seismology. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , 1956 , 8, 205-228	0.1	48
68	Seismological evidences for the existence of soft thin layers in the upper mantle under Japan. <i>Journal of Geophysical Research</i> , 1968 , 73, 585-594		45
67	Quantitative analysis of long-period events recorded during hydrofracture experiments at Fenton Hill, New Mexico. <i>Journal of Geophysical Research</i> , 1990 , 95, 21871		44
66	Location of tremor sources and estimation of lava output using tremor source amplitude on the Piton de la Fournaise volcano: 1. Location of tremor sources. <i>Journal of Volcanology and Geothermal Research</i> , 2005 , 147, 268-290	2.8	43
65	Source and scattering effects on the spectra of small local earthquakes. <i>Bulletin of the Seismological Society of America</i> , 1981 , 71, 1687-1700	2.3	42
64	Higher-order interrelations between seismogenic structures and earthquake processes. <i>Tectonophysics</i> , 1992 , 211, 1-12	3.1	41
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61	Bias in the estimate of seismic moment tensor by the linear inversion method. <i>Geophysical Journal International</i> , 1979 , 59, 479-495	2.6	39
60	Effect of slip rate on stress drop. <i>Pure and Applied Geophysics</i> , 1986 , 124, 515-529	2.2	38
59	Sealing law of far-field spectra based on observed parameters of the specific barrier model. <i>Pure and Applied Geophysics</i> , 1985 , 123, 353-374	2.2	34

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- 54 Temporal and spatial variation on coda Q associated with the North Palm Springs earthquake of July 8, 1986. *Pure and Applied Geophysics*, **1990**, 133, 23-52 2.2 27
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- 41 Possibilities of seismology in the 1980's. *Bulletin of the Seismological Society of America*, **1980**, 70, 1969-1976 19

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39	A low-velocity zone in the basement beneath the Valles Caldera, New Mexico. <i>Journal of Geophysical Research</i> , 1991 , 96, 21583-21596		18
38	Determination of local phase velocity by intercomparison of seismograms from strain and pendulum instruments. <i>Journal of Geophysical Research</i> , 1964 , 69, 721-731		18
37	Temporal correlation between coda Q and seismicity: Evidence for a structural unit in the brittle-ductile transition zone. <i>Journal of Geodynamics</i> , 1993 , 17, 95-119	2.2	17
36	Correlogram Analyses of Seismograms by Means of a Simple Automatic Computer.. <i>Journal of Physics of the Earth</i> , 1956 , 4, 71-79		17
35	Interrelation between fault zone structures and earthquake processes. <i>Pure and Applied Geophysics</i> , 1995 , 145, 647-676	2.2	16
34	Ground motion at mountains and sedimentary basins with vertical seismic velocity gradient. <i>Geophysical Journal International</i> , 1994 , 116, 95-118	2.6	15
33	Coda Q in two-layer random media. <i>Geophysical Journal International</i> , 1997 , 128, 425-433	2.6	14
32	A new view of earthquake and volcano precursors. <i>Earth, Planets and Space</i> , 2004 , 56, 689-713	2.9	12
31	General coherence functions for amplitude and phase fluctuations in a randomly heterogeneous medium. <i>Geophysical Journal International</i> , 1991 , 105, 155-162	2.6	12
30	Further study of the mechanism of circum-Pacific earthquakes from Rayleigh waves. <i>Journal of Geophysical Research</i> , 1960 , 65, 4165-4172		12
29	3-D inhomogeneities in the upper mantle. <i>Tectonophysics</i> , 1981 , 75, 31-40	3.1	11
28	Study of Love and Rayleigh waves from earthquakes with fault plane solutions or with known faulting. Part 1. A phase difference method based on a new model of earthquake source. <i>Bulletin of the Seismological Society of America</i> , 1964 , 54, 511-527	2.3	11
27	Seismological evidence for the brittle-ductile interaction hypothesis on earthquake loading. <i>Earth, Planets and Space</i> , 2004 , 56, 823-830	2.9	10
26	Earthquake prediction, societal implications. <i>Reviews of Geophysics</i> , 1995 , 33, 243	23.1	10
25	Assigning probability gain for precursors of four large Chinese earthquakes. <i>Journal of Geophysical Research</i> , 1983 , 88, 2185		9
24	A perspective on the history of Strong Motion Seismology. <i>Physics of the Earth and Planetary Interiors</i> , 2003 , 137, 5-11	2.3	8
23	Data summary for dense GEOS array observations of seismic activity associated with magma transport at Kilauea Volcano, Hawaii. <i>US Geological Survey Open-File Report</i> ,		8

22	Earthquake Mechanism. <i>Developments in Geotectonics</i> , 1972 , 423-446		7
21	Aspects of the mechanics of earthquake rupture related to the generation of high frequency waves and the prediction of strong ground motion. <i>International Journal of Soil Dynamics and Earthquake Engineering</i> , 1982 , 1, 67-74		6
20	Preliminary Results from a Field Experiment on Volcanic Events at Kilauea Using an Array of Digital Seismographs. <i>IAVCEI Proceedings in Volcanology</i> , 1992 , 168-189		6
19	Theory of Earthquake Prediction with Special Reference to Monitoring of the Quality Factor of Lithosphere by the Coda Method 1985 , 219-230		6
18	A shallow attenuating anomaly inside the ring fracture of the Valles Caldera, New Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 1995 , 67, 79-99	2.8	5
17	Effect of finite thickness of scattering layer on coda Q of local earthquakes. <i>Journal of Geodynamics</i> , 1996 , 21, 191-203	2.2	5
16	Recent results on the mechanism of earthquakes with implications for the prediction and control program. <i>Tectonophysics</i> , 1972 , 14, 227-243	3.1	5
15	Revision of some results obtained in the study of the source function of Rayleigh waves. <i>Journal of Geophysical Research</i> , 1962 , 67, 3645-3647		3
14	Effect of Slip Rate on Stress Drop 1986 , 515-529		3
13	Reply to Leif Wennerberg's comment on Simultaneous study of the source, path, and site effects on strong ground motion during the 1989 Loma Prieta earthquake: A preliminary result on pervasive nonlinear site effects <i>Bulletin of the Seismological Society of America</i> , 1996 , 86, 268-273	2.3	3
12	Short period seismology. <i>Journal of Computational Physics</i> , 1984 , 54, 3-17	4.1	2
11	Three-dimensional seismic velocity anomalies and their relation to local seismicity. <i>Tectonophysics</i> , 1979 , 56, 85-88	3.1	2
10	Reply [to Comments on some papers concerning amplitudes of seismic surface waves] <i>Journal of Geophysical Research</i> , 1972 , 77, 3827-3830		2
9	Seismicity Simulation with a Rate- and State-Dependent Friction Law 1986 , 487-513		2
8	Automatic computation of impulse response seismograms of Rayleigh waves for mixed paths. <i>Bulletin of the Seismological Society of America</i> , 1961 , 51, 29-34	2.3	2
7	Modelling elastic media with the wavelet transform. <i>Geophysical Journal International</i> , 2001 , 146, 454-488		1
6	5 Synthesis of earthquake science information and its public transfer: A history of the Southern California earthquake center. <i>International Geophysics</i> , 2002 , 39-49		1
5	Haskell's Source Mechanism Papers and their Impact on Modern Seismology 1990 , 42-45		1

4	Scale-dependence in Earthquake Processes and Seismogenic Structures 2000 , 2249-2258		1
3	Multiple Scattering and Energy Transfer of Seismic Waves—Separation of Scattering Effect from Intrinsic Attenuation II. Application of the Theory to Hindu Kush Region 1988 , 49-80		1
2	Seismic Coda Waves: A Stochastic Process in Earth's Lithosphere. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1997 , 1-24	0.5	1
1	Interrelation between Fault Zone Structures and Earthquake Processes 1995 , 647-676		