

# Keiiti Aki

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Probabilistic Synthesis of Precursory Phenomena. <i>Maurice Ewing Series</i> , <b>2013</b> , 566-574		95
128	Pre-eruptive migration of earthquakes at the Piton de la Fournaise volcano (Réunion Island). <i>Geophysical Journal International</i> , <b>2005</b> , 161, 549-558	2.6	122
127	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> , <b>2005</b> , 147, 268-290	2.8	43
126	Location of tremor sources and estimation of lava output using tremor source amplitude on the Piton de la Fournaise volcano: 2. Estimation of lava output. <i>Journal of Volcanology and Geothermal Research</i> , <b>2005</b> , 147, 291-308	2.8	40
125	A new view of earthquake and volcano precursors. <i>Earth, Planets and Space</i> , <b>2004</b> , 56, 689-713	2.9	12
124	Seismological evidence for the brittle-ductile interaction hypothesis on earthquake loading. <i>Earth, Planets and Space</i> , <b>2004</b> , 56, 823-830	2.9	10
123	Location of seismic events and eruptive fissures on the Piton de la Fournaise volcano using seismic amplitudes. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		130
122	A perspective on the history of Strong Motion Seismology. <i>Physics of the Earth and Planetary Interiors</i> , <b>2003</b> , 137, 5-11	2.3	8
121	5 Synthesis of earthquake science information and its public transfer: A history of the Southern California earthquake center. <i>International Geophysics</i> , <b>2002</b> , 39-49		1
120	Modelling elastic media with the wavelet transform. <i>Geophysical Journal International</i> , <b>2001</b> , 146, 454-488	6	1
119	Seismic monitoring and modeling of an active volcano for prediction. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 16617-16640		96
118	Depth-dependent structure of the Landers fault zone from trapped waves generated by aftershocks. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 6237-6254		72
117	Scale-dependence in Earthquake Processes and Seismogenic Structures <b>2000</b> , 2249-2258		1
116	Shallow structure of the Landers Fault Zone from explosion-generated trapped waves. <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 20257-20275		33
115	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> , <b>1998</b> , 103, 7247-7263		51
114	Evidence of shallow fault zone strengthening after the 1992 M7.5 Landers, California, earthquake. <i>Science</i> , <b>1998</b> , 279, 217-9	33.3	166
113	San Jacinto Fault Zone guided waves: A discrimination for recently active fault strands near Anza, California. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 11689-11701		26

112	CodaQ in two-layer random media. <i>Geophysical Journal International</i> , <b>1997</b> , 128, 425-433	2.6	14
111	Seismic Coda Waves: A Stochastic Process in Earth's Lithosphere. <i>The IMA Volumes in Mathematics and Its Applications</i> , <b>1997</b> , 1-24	0.5	1
110	Effect of finite thickness of scattering layer on coda Q of local earthquakes. <i>Journal of Geodynamics</i> , <b>1996</b> , 21, 191-203	2.2	5
109	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> , <b>1996</b> , 86, 268-273	2.3	3
108	Interrelation between fault zone structures and earthquake processes. <i>Pure and Applied Geophysics</i> , <b>1995</b> , 145, 647-676	2.2	16
107	A shallow attenuating anomaly inside the ring fracture of the Valles Caldera, New Mexico. <i>Journal of Volcanology and Geothermal Research</i> , <b>1995</b> , 67, 79-99	2.8	5
106	Earthquake prediction, societal implications. <i>Reviews of Geophysics</i> , <b>1995</b> , 33, 243	23.1	10
105	Interrelation between Fault Zone Structures and Earthquake Processes <b>1995</b> , 647-676		
104	Ground motion at mountains and sedimentary basins with vertical seismic velocity gradient. <i>Geophysical Journal International</i> , <b>1994</b> , 116, 95-118	2.6	15
103	Seismic guided waves trapped in the fault zone of the Landers, California, earthquake of 1992. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 11705-11722		148
102	Separation of intrinsic and scattering attenuation in southern California using TERRAScope data. <i>Journal of Geophysical Research</i> , <b>1994</b> , 99, 17835-17848		64
101	Temporal correlation between coda Q and seismicity: Evidence for a structural unit in the brittle-ductile transition zone. <i>Journal of Geodynamics</i> , <b>1993</b> , 17, 95-119	2.2	17
100	Mapping of the high-frequency source radiation for the Loma Prieta Earthquake, California. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 11981-11993		53
99	Local site effects on weak and strong ground motion. <i>Tectonophysics</i> , <b>1993</b> , 218, 93-111	3.1	170
98	A comparative study of scattering, intrinsic, and coda Q for Hawaii, Long Valley, and central California between 1.5 and 15.0 Hz. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 6643		173
97	Higher-order interrelations between seismogenic structures and earthquake processes. <i>Tectonophysics</i> , <b>1992</b> , 211, 1-12	3.1	41
96	Multiple scattering of SH waves in 2-D media with many cavities. <i>Pure and Applied Geophysics</i> , <b>1992</b> , 138, 353-390	2.2	66
95	Preliminary Results from a Field Experiment on Volcanic Events at Kilauea Using an Array of Digital Seismographs. <i>IAVCEI Proceedings in Volcanology</i> , <b>1992</b> , 168-189		6

94	Scattering conversions P to S versus S to P. <i>Bulletin of the Seismological Society of America</i> , <b>1992</b> , 82, 1969-1972	2.3	57
93	General coherence functions for amplitude and phase fluctuations in a randomly heterogeneous medium. <i>Geophysical Journal International</i> , <b>1991</b> , 105, 155-162	2.6	12
92	Summary of discussions on coda waves at the Istanbul IASPEI meeting. <i>Physics of the Earth and Planetary Interiors</i> , <b>1991</b> , 67, 1-3	2.3	19
91	Scattering wave energy propagation in a random isotropic scattering medium: 1. Theory. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 607		199
90	Characteristics of seismic waves composing Hawaiian volcanic tremor and gas-piston events observed by a near-source array. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 6199-6209		89
89	A low-velocity zone in the basement beneath the Valles Caldera, New Mexico. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 21583-21596		18
88	Site amplification from S-wave coda in the Long Valley caldera region, California. <i>Bulletin of the Seismological Society of America</i> , <b>1991</b> , 81, 2194-2213	2.3	27
87	Temporal and spatial variation on coda $Q^{-1}$ associated with the North Palm Springs earthquake of July 8, 1986. <i>Pure and Applied Geophysics</i> , <b>1990</b> , 133, 23-52	2.2	27
86	Haskell's Source Mechanism Papers and their Impact on Modern Seismology <b>1990</b> , 42-45		1
85	Quantitative analysis of long-period events recorded during hydrofracture experiments at Fenton Hill, New Mexico. <i>Journal of Geophysical Research</i> , <b>1990</b> , 95, 21871		44
84	Seismic radiation from an SH line source in a laterally heterogeneous planar fault zone. <i>Bulletin of the Seismological Society of America</i> , <b>1990</b> , 80, 971-994	2.3	98
83	Boundary integral-Gaussian beam method for seismic wave scattering: SH waves in two-dimensional media. <i>Journal of the Acoustical Society of America</i> , <b>1989</b> , 86, 375-386	2.2	18
82	Ideal probabilistic earthquake prediction. <i>Tectonophysics</i> , <b>1989</b> , 169, 197-198	3.1	26
81	Introduction: Seismic wave scattering in three-dimensionally heterogeneous earth. <i>Pure and Applied Geophysics</i> , <b>1988</b> , 128, 1-6	2.2	103
80	Multiple scattering and energy transfer of seismic waves—Separation of scattering effect from intrinsic attenuation II. Application of the theory to Hindu Kush region. <i>Pure and Applied Geophysics</i> , <b>1988</b> , 128, 49-80	2.2	112
79	Spatial and temporal correlation between coda Q and seismicity in China. <i>Bulletin of the Seismological Society of America</i> , <b>1988</b> , 78, 741-769	2.3	133
78	Multiple Scattering and Energy Transfer of Seismic Waves—Separation of Scattering Effect from Intrinsic Attenuation II. Application of the Theory to Hindu Kush Region <b>1988</b> , 49-80		1
77	Fractal geometry in the San Andreas Fault System. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 345		282

76	Magnitude-frequency relation for small earthquakes: A clue to the origin of that of large earthquakes. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 1349		126
75	Slow waves trapped in a fluid-filled infinite crack: Implication for volcanic tremor. <i>Journal of Geophysical Research</i> , <b>1987</b> , 92, 9215		159
74	Strong Motion Seismology <b>1987</b> , 3-39		25
73	Seismicity simulation with a rate- and state-dependent friction law. <i>Pure and Applied Geophysics</i> , <b>1986</b> , 124, 487-513	2.2	66
72	Effect of slip rate on stress drop. <i>Pure and Applied Geophysics</i> , <b>1986</b> , 124, 515-529	2.2	38
71	Temporal change in coda Q before the Tangshan Earthquake of 1976 and the Haicheng Earthquake of 1975. <i>Journal of Geophysical Research</i> , <b>1986</b> , 91, 665		111
70	Site amplification of coda waves from local earthquakes in central California. <i>Bulletin of the Seismological Society of America</i> , <b>1986</b> , 76, 627-648	2.3	182
69	Seismicity Simulation with a Rate- and State-Dependent Friction Law <b>1986</b> , 487-513		2
68	Effect of Slip Rate on Stress Drop <b>1986</b> , 515-529		3
67	The fractal nature of the inhomogeneities in the lithosphere evidenced from seismic wave scattering. <i>Pure and Applied Geophysics</i> , <b>1985</b> , 123, 805-818	2.2	90
66	Seismicity simulation with a mass-spring model and a displacement hardening-softening friction law. <i>Pure and Applied Geophysics</i> , <b>1985</b> , 122, 10-24	2.2	57
65	Sealing law of far-field spectra based on observed parameters of the specific barrier model. <i>Pure and Applied Geophysics</i> , <b>1985</b> , 123, 353-374	2.2	34
64	Regional change of coda Q in the oceanic lithosphere. <i>Journal of Geophysical Research</i> , <b>1985</b> , 90, 8651-8659		26
63	Theory of Earthquake Prediction with Special Reference to Monitoring of the Quality Factor of Lithosphere by the Coda Method <b>1985</b> , 219-230		6
62	Short period seismology. <i>Journal of Computational Physics</i> , <b>1984</b> , 54, 3-17	4.1	2
61	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> , <b>1984</b> , 89, 7689-7696		80
60	Asperities, barriers, characteristic earthquakes and strong motion prediction. <i>Journal of Geophysical Research</i> , <b>1984</b> , 89, 5867-5872		252
59	Assigning probability gain for precursors of four large Chinese earthquakes. <i>Journal of Geophysical Research</i> , <b>1983</b> , 88, 2185		9

58	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> , <b>1983</b> , 73, 953-978	2.3	289
57	Three-dimensional velocity structure beneath the Kanto district, Japan.. <i>Journal of Physics of the Earth</i> , <b>1982</b> , 30, 255-281		32
56	Three-dimensional seismic inhomogeneities in the lithosphere and asthenosphere: Evidence for decoupling in the lithosphere and flow in the asthenosphere. <i>Reviews of Geophysics</i> , <b>1982</b> , 20, 161	23.1	34
55	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> , <b>1982</b> , 87, 936-944		49
54	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> , <b>1982</b> , 1, 67-74		6
53	Scattering and attenuation of high-frequency body waves (105 Hz) in the lithosphere. <i>Physics of the Earth and Planetary Interiors</i> , <b>1981</b> , 26, 241-243	2.3	22
52	Deep volcanic tremor and magma ascent mechanism under Kilauea, Hawaii. <i>Journal of Geophysical Research</i> , <b>1981</b> , 86, 7095		210
51	3-D inhomogeneities in the upper mantle. <i>Tectonophysics</i> , <b>1981</b> , 75, 31-40	3.1	11
50	Source and scattering effects on the spectra of small local earthquakes. <i>Bulletin of the Seismological Society of America</i> , <b>1981</b> , 71, 1687-1700	2.3	42
49	Attenuation and Scattering of Short-Period Seismic Waves in the Lithosphere <b>1981</b> , 515-541		22
48	Attenuation of shear-waves in the lithosphere for frequencies from 0.05 to 25 Hz. <i>Physics of the Earth and Planetary Interiors</i> , <b>1980</b> , 21, 50-60	2.3	458
47	Scattering and attenuation of shear waves in the lithosphere. <i>Journal of Geophysical Research</i> , <b>1980</b> , 85, 6496-6504		326
46	Possibilities of seismology in the 1980's. <i>Bulletin of the Seismological Society of America</i> , <b>1980</b> , 70, 1969-1976	2.3	19
45	Bias in the estimate of seismic moment tensor by the linear inversion method. <i>Geophysical Journal International</i> , <b>1979</b> , 59, 479-495	2.6	39
44	Characterization of barriers on an earthquake fault. <i>Journal of Geophysical Research</i> , <b>1979</b> , 84, 6140		424
43	Three-dimensional seismic velocity anomalies and their relation to local seismicity. <i>Tectonophysics</i> , <b>1979</b> , 56, 85-88	3.1	2
42	Source mechanism of the deep Colombian earthquake of 1970 July 31 from the free oscillation data. <i>Geophysical Journal International</i> , <b>1978</b> , 55, 539-556	2.6	26
41	Seismic properties of a shallow magma reservoir in Kilauea Iki by active and passive experiments. <i>Journal of Geophysical Research</i> , <b>1978</b> , 83, 2273		52

40	Determination of seismic moment tensor using surface waves. <i>Tectonophysics</i> , <b>1978</b> , 49, 213-222	3.1	41
39	Determination of the three-dimensional seismic structure of the lithosphere. <i>Journal of Geophysical Research</i> , <b>1977</b> , 82, 277-296		658
38	Fault plane with barriers: A versatile earthquake model. <i>Journal of Geophysical Research</i> , <b>1977</b> , 82, 5658-5670		362
37	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> , <b>1977</b> , 2, 259-287	2.8	295
36	Discrete wave-number representation of seismic-source wave fields. <i>Bulletin of the Seismological Society of America</i> , <b>1977</b> , 67, 259-277	2.3	288
35	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> , <b>1976</b> , 81, 4381-4399		486
34	Three-dimensional seismic structure of the lithosphere under Montana Lasa. <i>Bulletin of the Seismological Society of America</i> , <b>1976</b> , 66, 501-524	2.3	75
33	Origin of coda waves: Source, attenuation, and scattering effects. <i>Journal of Geophysical Research</i> , <b>1975</b> , 80, 3322-3342		1072
32	A precise, continuous measurement of seismic velocity for monitoring in situ stress. <i>Journal of Geophysical Research</i> , <b>1974</b> , 79, 399-406		79
31	Solid earth tide and observed change in the in situ seismic velocity. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 1319-1322		54
30	Scattering of P waves under the Montana Lasa. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 1334-1346		180
29	Focal depth and mechanism of mid-ocean ridge earthquakes. <i>Journal of Geophysical Research</i> , <b>1973</b> , 78, 1818-1831		71
28	Mechanism of Love-Wave excitation by explosive sources. <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 1452-1475		56
27	Seismic source time function of propagating longitudinal-shear cracks. <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 2034-2044		30
26	Reply [to Comments on some papers concerning amplitudes of seismic surface waves] <i>Journal of Geophysical Research</i> , <b>1972</b> , 77, 3827-3830		2
25	Earthquake mechanism. <i>Tectonophysics</i> , <b>1972</b> , 13, 423-446	3.1	136
24	Recent results on the mechanism of earthquakes with implications for the prediction and control program. <i>Tectonophysics</i> , <b>1972</b> , 14, 227-243	3.1	5
23	Earthquake Mechanism. <i>Developments in Geotectonics</i> , <b>1972</b> , 423-446		7



22	Comparison of two independent methods for the solution of wave-scattering problems: Response of a sedimentary basin to vertically incident SH waves. <i>Journal of Geophysical Research</i> , <b>1971</b> , 76, 558-569		55
21	Amplitude spectra of surface waves from small earthquakes and underground nuclear explosions. <i>Journal of Geophysical Research</i> , <b>1971</b> , 76, 3940-3952		50
20	Precise focal depth determination from amplitude spectra of surface waves. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 5729-5744		112
19	Surface motion of a layered medium having an irregular interface due to incident plane SH waves. <i>Journal of Geophysical Research</i> , <b>1970</b> , 75, 933-954		239
18	Analysis of the seismic coda of local earthquakes as scattered waves. <i>Journal of Geophysical Research</i> , <b>1969</b> , 74, 615-631		594
17	Simultaneous determination of the seismic moment and attenuation of seismic surface waves. <i>Bulletin of the Seismological Society of America</i> , <b>1969</b> , 59, 275-287	2.3	124
16	Seismological evidences for the existence of soft thin layers in the upper mantle under Japan. <i>Journal of Geophysical Research</i> , <b>1968</b> , 73, 585-594		45
15	Seismic displacements near a fault. <i>Journal of Geophysical Research</i> , <b>1968</b> , 73, 5359-5376		200
14	Scaling law of seismic spectrum. <i>Journal of Geophysical Research</i> , <b>1967</b> , 72, 1217-1231		918
13	A NOTE ON THE USE OF MICROSEISMS IN DETERMINING THE SHALLOW STRUCTURES OF THE EARTH'S CRUST. <i>Geophysics</i> , <b>1965</b> , 30, 665-666	3.1	94
12	Determination of local phase velocity by intercomparison of seismograms from strain and pendulum instruments. <i>Journal of Geophysical Research</i> , <b>1964</b> , 69, 721-731		18
11	A note on surface waves from the hardhat nuclear explosion. <i>Journal of Geophysical Research</i> , <b>1964</b> , 69, 1131-1134		21
10	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> , <b>1964</b> , 54, 511-527	2.3	11
9	Revision of some results obtained in the study of the source function of Rayleigh waves. <i>Journal of Geophysical Research</i> , <b>1962</b> , 67, 3645-3647		3
8	Automatic computation of impulse response seismograms of Rayleigh waves for mixed paths. <i>Bulletin of the Seismological Society of America</i> , <b>1961</b> , 51, 29-34	2.3	2
7	The use of Love waves for the study of earthquake mechanism. <i>Journal of Geophysical Research</i> , <b>1960</b> , 65, 323-331		19
6	Study of earthquake mechanism by a method of phase equalization applied to Rayleigh and Love waves. <i>Journal of Geophysical Research</i> , <b>1960</b> , 65, 729-740		50
5	Interpretation of source functions of circum-Pacific earthquakes obtained from long-period Rayleigh waves. <i>Journal of Geophysical Research</i> , <b>1960</b> , 65, 2405-2417		23



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| 4 | Further study of the mechanism of circum-Pacific earthquakes from Rayleigh waves. <i>Journal of Geophysical Research</i> , <b>1960</b> , 65, 4165-4172                        |     | 12 |
| 3 | Correlogram Analyses of Seismograms by Means of a Simple Automatic Computer.. <i>Journal of Physics of the Earth</i> , <b>1956</b> , 4, 71-79                                 |     | 17 |
| 2 | Some Problems in Statistical Seismology. <i>Zisin (Journal of the Seismological Society of Japan 2nd Ser)</i> , <b>1956</b> , 8, 205-228                                      | 0.1 | 48 |
| 1 | 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  |