

# Yan Y Kagan

## List of Publications by Year in descending order

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67  
papers

5,890  
citations

101496

36  
h-index

110317

64  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Earthquakes Cannot Be Predicted. <i>Science</i> , 1997, 275, 1616-1616.	6.0	626
2	Long-Term Earthquake Clustering. <i>Geophysical Journal International</i> , 1991, 104, 117-134.	1.0	446
3	Probabilistic forecasting of earthquakes. <i>Geophysical Journal International</i> , 2000, 143, 438-453.	1.0	267
4	Comparison of Short-Term and Time-Independent Earthquake Forecast Models for Southern California. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 90-106.	1.1	261
5	Seismic moment distribution revisited: I. Statistical results. <i>Geophysical Journal International</i> , 2002, 148, 520-541.	1.0	260
6	Short-Term Properties of Earthquake Catalogs and Models of Earthquake Source. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 1207-1228.	1.1	249
7	Plate-Tectonic Analysis of Shallow Seismicity: Apparent Boundary Width, Beta, Corner Magnitude, Coupled Lithosphere Thickness, and Coupling in Seven Tectonic Settings. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 2380-2399.	1.1	212
8	Observational evidence for earthquakes as a nonlinear dynamic process. <i>Physica D: Nonlinear Phenomena</i> , 1994, 77, 160-192.	1.3	208
9	Seismic Gap Hypothesis: Ten years after. <i>Journal of Geophysical Research</i> , 1991, 96, 21419-21431.	3.3	207
10	Importance of small earthquakes for stress transfers and earthquake triggering. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	207
11	Accuracy of modern global earthquake catalogs. <i>Physics of the Earth and Planetary Interiors</i> , 2003, 135, 173-209.	0.7	185
12	Regression problems for magnitudes. <i>Geophysical Journal International</i> , 2006, 165, 913-930.	1.0	164
13	Statistical study of the occurrence of shallow earthquakes. <i>Geophysical Journal International</i> , 1978, 55, 67-86.	1.0	156
14	Are earthquakes predictable?. <i>Geophysical Journal International</i> , 1997, 131, 505-525.	1.0	148
15	New seismic gap hypothesis: Five years after. <i>Journal of Geophysical Research</i> , 1995, 100, 3943-3959.	3.3	146
16	The longer it has been since the last earthquake, the longer the expected time till the next?. <i>Bulletin of the Seismological Society of America</i> , 1989, 79, 1439-1456.	1.1	128
17	High-resolution Time-independent Grid-based Forecast for $M \geq 5$ Earthquakes in California. <i>Seismological Research Letters</i> , 2007, 78, 78-86.	0.8	121
18	Aftershock Zone Scaling. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 641-655.	1.1	111

#	ARTICLE	IF	CITATIONS
19	Seismic moment distribution revisited: II. Moment conservation principle. <i>Geophysical Journal International</i> , 2002, 149, 731-754.	1.0	109
20	High-Resolution Long-Term and Short-Term Earthquake Forecasts for California. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 1630-1648.	1.1	104
21	Earthquake spatial distribution: the correlation dimension. <i>Geophysical Journal International</i> , 2007, 168, 1175-1194.	1.0	93
22	Implications of Geodetic Strain Rate for Future Earthquakes, with a Five-Year Forecast of M5 Earthquakes in Southern California. <i>Seismological Research Letters</i> , 2007, 78, 116-120.	0.8	90
23	The 2004 Parkfield Earthquake, the 1985 Prediction, and Characteristic Earthquakes: Lessons for the Future. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, S397-S409.	1.1	83
24	Approximating the Distribution of Pareto Sums. <i>Pure and Applied Geophysics</i> , 2005, 162, 1187-1228.	0.8	78
25	Statistical distributions of earthquake numbers: consequence of branching process. <i>Geophysical Journal International</i> , 2010, 180, 1313-1328.	1.0	75
26	Simplified algorithms for calculating double-couple rotation. <i>Geophysical Journal International</i> , 2007, 171, 411-418.	1.0	72
27	Earthquake Patterns in Diverse Tectonic Zones of the Globe. <i>Pure and Applied Geophysics</i> , 2010, 167, 721-741.	0.8	70
28	Earthquake size distribution: Power-law with exponent $\beta$ . <i>Tectonophysics</i> , 2010, 490, 103-114.	0.9	70
29	Relation between mainshock rupture process and Omori's law for aftershock moment release rate. <i>Geophysical Journal International</i> , 2005, 163, 1039-1048.	1.0	66
30	Seismic gaps and earthquakes. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	59
31	Comment on "The Gutenberg-Richter or characteristic earthquake distribution, which is it?" by Steven G. Wesnousky. <i>Bulletin of the Seismological Society of America</i> , 1996, 86, 274-285.	1.1	58
32	Plate Tectonics and Earthquake Potential of Spreading Ridges and Oceanic Transform Faults. <i>Geodynamic Series</i> , 0, , 203-218.	0.1	56
33	Double-couple earthquake focal mechanism: random rotation and display. <i>Geophysical Journal International</i> , 2005, 163, 1065-1072.	1.0	46
34	A Testable Five-Year Forecast of Moderate and Large Earthquakes in Southern California Based on Smoothed Seismicity. <i>Seismological Research Letters</i> , 2007, 78, 94-98.	0.8	44
35	Using the ETAS Model for Catalog Declustering and Seismic Background Assessment. <i>Pure and Applied Geophysics</i> , 2010, 167, 819-830.	0.8	44
36	Spatial aftershock distribution: Effect of normal stress. <i>Journal of Geophysical Research</i> , 1998, 103, 24453-24467.	3.3	39

#	ARTICLE	IF	CITATIONS
37	California Earthquakes, 1800-2007: A Unified Catalog with Moment Magnitudes, Uncertainties, and Focal Mechanisms. <i>Seismological Research Letters</i> , 2009, 80, 446-457.	0.8	39
38	Linear and Nonlinear Relations between Relative Plate Velocity and Seismicity. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 3097-3113.	1.1	38
39	Temporal correlations of earthquake focal mechanisms. <i>Geophysical Journal International</i> , 2000, 143, 881-897.	1.0	37
40	Global earthquake forecasts. <i>Geophysical Journal International</i> , 2011, 184, 759-776.	1.0	37
41	A New Catalog of Southern California Earthquakes, 1800-2005. <i>Seismological Research Letters</i> , 2006, 77, 30-38.	0.8	32
42	Earthquake size distribution and earthquake insurance. <i>Stochastic Models</i> , 1997, 13, 775-797.	0.3	30
43	Comparison of ETAS Parameter Estimates across Different Global Tectonic Zones. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 2323-2339.	1.1	30
44	Testing long-term earthquake forecasts: likelihood methods and error diagrams. <i>Geophysical Journal International</i> , 2009, 177, 532-542.	1.0	25
45	Reply [to "Comment on "Seismic gap hypothesis: Ten years after" by Y. Y. Kagan and D. D. Jackson]. <i>Journal of Geophysical Research</i> , 1993, 98, 9917-9920.	3.3	22
46	On Earthquake Predictability Measurement: Information Score and Error Diagram. <i>Pure and Applied Geophysics</i> , 2007, 164, 1947-1962.	0.8	21
47	Earthquake Forecasting in Diverse Tectonic Zones of the Globe. <i>Pure and Applied Geophysics</i> , 2010, 167, 709-719.	0.8	21
48	California Earthquake Forecasts Based on Smoothed Seismicity: Model Choices. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 1422-1430.	1.1	16
49	Comment on "Testing earthquake prediction methods: The West Pacific short-term forecast of earthquakes with magnitude $M_w \geq 5.8$ " by V.G. Kossobokov. <i>Tectonophysics</i> , 2006, 413, 33-38.	0.9	14
50	Whole Earth high-resolution earthquake forecasts. <i>Geophysical Journal International</i> , 2012, 190, 677-686.	1.0	14
51	Statistical earthquake focal mechanism forecasts. <i>Geophysical Journal International</i> , 2014, 197, 620-629.	1.0	13
52	Worldwide earthquake forecasts. <i>Stochastic Environmental Research and Risk Assessment</i> , 2017, 31, 1273-1290.	1.9	13
53	Earthquake slip distribution: A statistical model. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	12
54	Earthquake rate and magnitude distributions of great earthquakes for use in global forecasts. <i>Geophysical Journal International</i> , 2016, 206, 630-643.	1.0	11

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55	On the geometric complexity of earthquake focal zone and fault systems: A statistical study. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 173, 254-268.	0.7	9
56	Short- and Long-Term Earthquake Forecasts for California and Nevada. <i>Pure and Applied Geophysics</i> , 2010, 167, 685-692.	0.8	9
57	Random stress and Omori's law. <i>Geophysical Journal International</i> , 2011, 186, 1347-1364.	1.0	8
58	Double-couple earthquake source: symmetry and rotation. <i>Geophysical Journal International</i> , 2013, 194, 1167-1179.	1.0	8
59	Stress and earthquakes in southern California, 1850–2004. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	7
60	Earthquake number forecasts testing. <i>Geophysical Journal International</i> , 2017, 211, 335-345.	1.0	7
61	Adaptively smoothed seismicity earthquake forecasts for Italy. <i>Annals of Geophysics</i> , 2010, 53, .	0.5	7
62	Magnitude-frequency distribution in the European-Mediterranean earthquake regions – Comment. <i>Tectonophysics</i> , 1995, 245, 101-105.	0.9	6
63	Do epicentres migrate on the San Andreas Fault?. <i>Nature</i> , 1975, 257, 160-160.	13.7	5
64	Likelihood analysis of earthquake focal mechanism distributions. <i>Geophysical Journal International</i> , 2015, 201, 1409-1415.	1.0	5
65	Characteristic Earthquakes and Seismic Gaps. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 37-40.	0.1	4
66	Characteristic Earthquakes and Seismic Gaps. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 53-56.	0.1	0
67	Characteristic Earthquakes and Seismic Gaps. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-4.	0.1	0