David R Brillinger

List of Publications by Year
in descending order

85 papers	3,291 citations	218677 26 h-index	197818 49 g-index
96 all docs	96 docs citations	96 times ranked	2007 citing authors

#	Article	IF	Citations
1	An Introduction to Polyspectra. Annals of Mathematical Statistics, 1965, 36, 1351-1374.	0.5	473
2	Probability based models for estimation of wildfire risk. International Journal of Wildland Fire, 2004, 13, 133.	2.4	238
3	Identification of synaptic interactions. Biological Cybernetics, 1976, 22, 213-228.	1.3	146
4	The identification of a particular nonlinear time series system. Biometrika, 1977, 64, 509-515.	2.4	131
5	The Identification of Point Process Systems. Annals of Probability, 1975, 3, 909.	1.8	119
6	Further analysis of the Joyner-Boore attenuation data. Bulletin of the Seismological Society of America, 1985, 75, 611-614.	2.3	109
7	Asymptotic properties of spectral estimates of second order. Biometrika, 1969, 56, 375-390.	2.4	108
8	Nerve Cell Spike Train Data Analysis: A Progression of Technique. Journal of the American Statistical Association, 1992, 87, 260-271.	3.1	72
9	Empirical examination of the threshold model of neuron firing. Biological Cybernetics, 1979, 35, 213-220.	1.3	68
10	Consistent detection of a monotonic trend superposed on a stationary time series. Biometrika, 1989, 76, 23-30.	2.4	65
11	An exploratory data analysis (EDA) of the paths of moving animals. Journal of Statistical Planning and Inference, 2004, 122, 43-63.	0.6	64
12	The calculation of cumulants via conditioning. Annals of the Institute of Statistical Mathematics, 1969, 21, 215-218.	0.8	57
13	A Particle Migrating Randomly on a Sphere. Journal of Theoretical Probability, 1997, 10, 429-443.	0.8	57
14	Employing stochastic differential equations to model wildlife motion. Bulletin of the Brazilian Mathematical Society, 2002, 33, 385-408.	0.8	51
15	Fitting Cosines: Some Procedures and Some Physical Examples. , 1987, , 75-100.		49
16	Some uses if cumulants in wavelet analysis. Journal of Nonparametric Statistics, 1996, 6, 93-114.	0.9	46
17	Trend analysis: Time series and point process problems. Environmetrics, 1994, 5, 1-19.	1.4	42
18	Elephant-seal movements: Modelling migration. Canadian Journal of Statistics, 1998, 26, 431-443.	0.9	39

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19	John W. Tukey: his life and professional contributions. Annals of Statistics, 2002, 30, 1535.	2.6	39
20	Cross-Spectral Analysis of Processes with Stationary Increments Including the Stationary $G/G/\infty$ Queue. Annals of Probability, 1974, 2, .	1.8	38
21	Estimation of the mean of a stationary time series by sampling. Journal of Applied Probability, 1973, 10, 419-431.	0.7	37
22	Earthquake risk and insurance. Environmetrics, 1993, 4, 1-21.	1.4	37
23	Some river wavelets. Environmetrics, 1994, 5, 211-220.	1.4	35
24	Examples Bearing on the Definition of Fiducial Probability with a Bibliography. Annals of Mathematical Statistics, 1962, 33, 1349-1355.	0.5	34
25	Estimation of the mean of a stationary time series by sampling. Journal of Applied Probability, 1973, 10, 419-431.	0.7	33
26	THE COMPARISON OF LEAST SQUARES AND THIRD-ORDER PERIODOGRAM PROCEDURES IN THE ESTIMATION OF BIFREQUENCY. Journal of Time Series Analysis, 1980, 1, 95-102.	1.2	31
27	Comparative Aspects of the Study of Ordinary Time Series and of Point Processesâ€ â€This research was partially supported by the J. S. Guggenheim Memorial Foundation and National Science Foundation Grant MCS76â€"06117.. Developments in Statistics, 1978, , 33-133.	0.2	31
28	The Analysis of Time Series Collected in an Experimental Design11This paper was prepared with the support of the NSF grant GP-31411.. , 1973, , 241-256.		29
29	FOURIER INFERENCE: SOME METHODS FOR THE ANALYSIS OF ARRAY AND NONGAUSSIAN SERIES DATA. Journal of the American Water Resources Association, 1985, 21, 743-756.	2.4	27
30	John W. Tukey's work on time series and spectrum analysis. Annals of Statistics, 2002, 30, 1595.	2.6	26
31	Measuring the Association of Point Processes: A Case History. American Mathematical Monthly, 1976, 83, 16-22.	0.3	25
32	THE SPECTRAL ANALYSIS OF STATIONARY INTERVAL FUNCTIONS. , 1972, , 483-514.		25
33	Time series, point processes, and hybrids. Canadian Journal of Statistics, 1994, 22, 177-206.	0.9	23
34	Some bounds for seismic risk. Bulletin of the Seismological Society of America, 1982, 72, 1403-1410.	2.3	23
35	The maximum likelihood approach to the identification of neuronal firing systems. Annals of Biomedical Engineering, 1988, 16, 3-16.	2.5	22
36	Some basic aspects and uses of higher-order spectra. Signal Processing, 1994, 36, 239-249.	3.7	20

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37	Mutual information in the frequency domain. Journal of Statistical Planning and Inference, 2007, 137, 1076-1084.	0.6	20
38	Three Environmental Probabilistic Risk Problems. Statistical Science, 2003, 18, 412.	2.8	19
39	Examples of Scientific Problems and Data Analyses in Demography, Neurophysiology, and Seismology. Journal of Computational and Graphical Statistics, 1994, 3, 1-22.	1.7	18
40	A Generalized Linear Model With â€œGaussianâ€•Regressor Variables. , 2012, , 589-606.		17
41	8 Analysis of variance and problems under time series models. Handbook of Statistics, 1980, 1, 237-278.	0.6	15
42	Nerve Cell Spike Train Data Analysis: A Progression of Technique. , 2012, , 577-588.		15
43	Examples of Scientific Problems and Data Analyses in Demography, Neurophysiology, and Seismology. Journal of Computational and Graphical Statistics, 1994, 3, 1.	1.7	14
44	An Harmonic Analysis of Nonstationary Multivariate Economic Processes. Econometrica, 1969, 37, 131.	4.2	13
45	The asymptotic distribution of the Whittaker periodogram and a related chi-squared statistic for stationary processes. Biometrika, 1974, 61, 419-422.	2.4	13
46	RANDOM PROCESS METHODS AND ENVIRONMENTAL DATA: THE 1996 HUNTER LECTURE. Environmetrics, 1997, 8, 269-281.	1.4	12
47	The Analyticity of the Roots of a Polynomial as Functions of the Coefficients. Mathematics Magazine, 1966, 39, 145-147.	0.1	11
48	Interpretation of kernels. II. same-signed 1st- and 2nd-degree (main-diagonal) kernels of the human pupillary system. Mathematical Biosciences, 1979, 46, 159-187.	1.9	11
49	Three months journeying of a Hawaiian monk seal. , 2008, , 246-264.		11
50	Analyzing point processes subjected to random deletions. Canadian Journal of Statistics, 1979, 7, 21-27.	0.9	10
51	Combining noisy images of small crystalline domains in high resolution electron microscopy. Journal of Applied Statistics, 1989, 16, 165-175.	1.3	10
52	The digital rainbow: Some history and applications of numerical spectrum analysis. Canadian Journal of Statistics, 1993, 21, 1-19.	0.9	10
53	SECOND-ORDER MOMENTS AND MUTUAL INFORMATION IN THE ANALYSIS OF TIME SERIES. , 2002, , .		10
54	Statistical Inference for Irregularly Observed Processes. Lecture Notes in Statistics, 1984, , 38-57.	0.2	9

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55	The Analyticity of the Roots of a Polynomial as Functions of the Coefficients. Mathematics Magazine, 1966, 39, 145.	0.1	9
56	Some Statistical Methods for Random Process Data from Seismology and Neurophysiology. , 2012, , 89-142.		9
57	Some statistical aspects of low-dose electron imaging of crystals. Journal of Statistical Planning and Inference, 1990, 25, 235-259.	0.6	7
58	Does Anyone Know When the Correlation Coefficient Is Useful? A Study of the Times of Extreme River Flows. Technometrics, 2001, 43, 266-273.	1.9	7
59	Assessing Connections in Networks of Biological Neurons. , 1997, , 77-92.		6
60	An analysis of Chinese Super League partial results. Science in China Series A: Mathematics, 2009, 52, 1139-1151.	0.5	6
61	The Nicholson blowfly experiments: some history and EDA. Journal of Time Series Analysis, 2012, 33, 718-723.	1.2	6
62	Elephant Seal Movements: Dive Types and Their Sequences. Lecture Notes in Statistics, 1997, , 275-288.	0.2	6
63	An analysis of an ordinal-valued time series. Lecture Notes in Statistics, 1996, , 73-87.	0.2	6
64	Examples of the Investigation of Neural Information Processing by Point Process Analysis. , 1994, , 111-127.		6
65	Estimation of the Cross€Spectrum of a Stationary Bivariate Gaussian Process from its Zeros. Journal of the Royal Statistical Society Series B: Methodological, 1968, 30, 145-159.	0.7	5
66	MODELLING SOME NORWEGIAN SOCCER DATA. , 2007, , 3-20.		5
67	An Application of Statistics to Meteorology: Estimation of Motion. , 1997, , 93-105.		5
68	Parameter Estimation for Nongaussian Processes via Second and Third Order Spectra with an Application to Some Endocrine Data. , 1989, , 53-61.		5
69	Maximum likelihood solutions for layer parameters based on dynamic surface wave spectra. Physics of the Earth and Planetary Interiors, 1997, 103, 337-342.	1.9	3
70	Some Contrasting Examples of the Time and Frequency Domain Approaches to Time Series Analysis. Developments in Water Science, 1982, , 1-15.	0.1	2
71	Regression for randomly sampled spatial series: the trigonometric case. Journal of Applied Probability, 1986, 23, 275-289.	0.7	2
72	Some examples of the communication of risk and uncertainty. Environmetrics, 2010, 21, 719-727.	1.4	2

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73	An exploratory data analysis of the temperature fluctuations in a spreading fire. Environmetrics, 2014, 25, 443-453.	1.4	2
74	Automatic methods for generating seismic intensity maps. Journal of Applied Probability, 2001, 38, 188-201.	0.7	2
75	Necessary and sufficient conditions for a statistical problem to be invariant under a Lie group. , 2012, , 11-19.		2
76	2 Some examples of random process environmental data analysis. Handbook of Statistics, 2000, , 33-56.	0.6	1
77	Aligning some Nicholson sheepâ€blowfly data sets with system input periods. Stat, 2013, 2, 9-21.	0.4	1
78	Some Examples of Random Process Environmental Data Analysis. , 2012, , 287-322.		1
79	Automatic methods for generating seismic intensity maps. Journal of Applied Probability, 2001, 38, 188-201.	0.7	0
80	Stochastic modeling of particle movement with application to marine biology and oceanography. Journal of Statistical Planning and Inference, 2010, 140, 3597-3607.	0.6	0
81	Analyzing finger-movement trajectories with stochastic differential equations incorporating persistence. , 2017, , .		0
82	Some Examples of Empirical Fourier Analysis in Scientific Problems. , 2012, , 251-286.		0
83	Random Process Methods And Environmental Data: The 1996 Hunter Lecture. , 2012, , 425-437.		0
84	Aligning some Nicholson sheep-blowfly data sets with system input periods. Stat, 2013, , n/a-n/a.	0.4	0
85	AN ANALYSIS OF 1990-2011 ONTARIO SURFACE AIR TEMPERATURES. , 2013, , .		0