

Benoît B Mandelbrot

List of Publications by Year in descending order

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80
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27,845
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12485
citing authors

#	ARTICLE	IF	CITATIONS
1	A PRIMER OF NEGATIVE TEST DIMENSIONS AND DEGREES OF EMPTINESS FOR LATENT SETS. <i>Fractals</i> , 2009, 17, 1-14.	3.7	9
2	“New Methods of Statistical Economics,” revisited: Short versus long tails and Gaussian versus power-law distributions. <i>Complexity</i> , 2009, 14, 55-65.	1.6	18
3	Parallel cartoons of fractal models of finance. <i>Annals of Finance</i> , 2005, 1, 179-192.	0.8	12
4	The inescapable need for fractal tools in finance. <i>Annals of Finance</i> , 2005, 1, 193-195.	0.8	17
5	<i>Fractals and Chaos</i> , 2004, , .		197
6	SELECTED TOPICS IN MATHEMATICS, PHYSICS, AND FINANCE ORIGINATING IN FRACTAL GEOMETRY. , 2004, , .		1
7	Title is missing!. <i>Journal of Statistical Physics</i> , 2003, 110, 739-774.	1.2	42
8	Fractal Sums of Pulses and a Practical Challenge to the Distinction Between Local and Global Dependence. <i>Lecture Notes in Physics</i> , 2003, , 118-135.	0.7	1
9	<i>Fractals</i> , 2003, , 185-207.		3
10	Heavy Tails in Finance for Independent or Multifractal Price Increments. , 2003, , 1-34.		10
11	Angular Gaps in Radial Diffusion-Limited Aggregation: Two Fractal Dimensions and Nontransient Deviations from Linear Self-Similarity. <i>Physical Review Letters</i> , 2002, 88, 055501.	7.8	46
12	Multifractal products of cylindrical pulses. <i>Probability Theory and Related Fields</i> , 2002, 124, 409-430.	1.8	142
13	TOPICS ON FRACTALS IN MATHEMATICS AND PHYSICS. , 2001, , .		1
14	The Canopy and Shortest Path in a Self-Contacting Fractal Tree. <i>Mathematical Intelligencer</i> , 1999, 21, 18-27.	0.2	25
15	Easy and Natural Generation of Multifractals: Multiplying Harmonics of Periodic Functions. , 1999, , 113-122.		2
16	Multifractals and $1/\epsilon^2$ Noise. , 1999, , .		197
17	Exceptions to the multifractal formalism for discontinuous measures. <i>Mathematical Proceedings of the Cambridge Philosophical Society</i> , 1998, 123, 133-157.	0.4	21
18	Is Nature Fractal?. <i>Science</i> , 1998, 279, 783-783.	12.6	74

#	ARTICLE	IF	CITATIONS
19	Lévy dusts, Mittag-Leffler statistics, mass fractal lacunarity, and perceived dimension. Physical Review E, 1997, 56, 112-118.	2.1	38
20	Peano-Polya motions, when time is intrinsic or binomial (uniform or multifractal). Mathematical Intelligencer, 1997, 19, 21-26.	0.2	5
21	Inverse Measures, the Inversion Formula, and Discontinuous Multifractals. Advances in Applied Mathematics, 1997, 18, 50-58.	0.7	21
22	Inversion Formula for Continuous Multifractals. Advances in Applied Mathematics, 1997, 19, 332-354.	0.7	15
23	Fractals and Scaling in Finance. , 1997, , .		862
24	Local Regularity of Nonsmooth Wavelet Expansions and Application to the Polya Function. Advances in Mathematics, 1996, 120, 265-282.	1.1	23
25	Gap Independence and Lacunarity in Percolation Clusters. Physical Review Letters, 1996, 77, 877-880.	7.8	19
26	Exactly Self-similar Left-sided Multifractals. , 1996, , 367-399.		0
27	Parallel diffusion-limited aggregation. Physical Review E, 1995, 52, 5602-5609.	2.1	22
28	Stable Fractal Sums of Pulses: The Cylindrical Case. Bernoulli, 1995, 1, 201.	1.3	8
29	Measures of Fractal Lacunarity: Minkowski Content and Alternatives. , 1995, , 15-42.		25
30	OPINIONS. Fractals, 1993, 01, 117-123.	3.7	5
31	Variability of the form and of the harmonic measure for small off-off-lattice diffusion-limited aggregates. Physical Review A, 1992, 45, 5798-5804.	2.5	6
32	Self-similarity of harmonic measure on DLA. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 77-86.	2.6	28
33	Plane DLA is not self-similar; is it a fractal that becomes increasingly compact as it grows?. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 95-107.	2.6	69
34	Multifractality of the harmonic measure on fractal aggregates, and extended self-similarity. Physica A: Statistical Mechanics and Its Applications, 1991, 177, 386-393.	2.6	37
35	Fractal aggregates, and the current lines of their electrostatic potentials. Physica A: Statistical Mechanics and Its Applications, 1991, 177, 589-592.	2.6	6
36	Exactly Self-Similar Left-Sided Multifractals. , 1991, , 323-344.		10

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37	The potential distribution around growing fractal clusters. Nature, 1990, 348, 143-145.	27.8	93
38	Negative fractal dimensions and multifractals. Physica A: Statistical Mechanics and Its Applications, 1990, 163, 306-315.	2.6	143
39	New "anomalous" multiplicative multifractals: Left sided $\mathcal{E}'(\hat{\pm})$ and the modelling of DLA. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 95-111.	2.6	53
40	Exactly self-similar left-sided multifractal measures. Physical Review A, 1990, 42, 4528-4536.	2.5	71
41	A Class of Multinomial Multifractal Measures with Negative (Latent) Values for the "Dimension" $f(\hat{\pm})$. , 1989, , 3-29.		20
42	Multifractal Measures, Especially for the Geophysicist. , 1989, , 5-42.		81
43	Invariant multifractal measures in chaotic Hamiltonian systems, and related structures. Physical Review Letters, 1988, 60, 673-676.	7.8	37
44	The Science of Fractal Images. , 1988, , .		292
45	Towards a Second Stage of Indeterminism in Science. Interdisciplinary Science Reviews, 1987, 12, 117-127.	1.4	61
46	SELF-AFFINE FRACTAL SETS, III: HAUSDORFF DIMENSION ANOMALIES AND THEIR IMPLICATIONS. , 1986, , 21-28.		3
47	Continuous Interpolation of the Complex Discrete Map $z \mapsto \hat{z}(1-z)$, and Related Topics. On the dynamics of iterated maps X . Physica Scripta, 1985, T9, 59-63.	2.5	0
48	Self-Affine Fractals and Fractal Dimension. Physica Scripta, 1985, 32, 257-260.	2.5	836
49	Fractal character of fracture surfaces of metals. Nature, 1984, 308, 721-722.	27.8	1,702
50	Fractals in physics: Squig clusters, diffusions, fractal measures, and the unicity of fractal dimensionality. Journal of Statistical Physics, 1984, 34, 895-930.	1.2	125
51	Squig sheets and some other squig fractal constructions. Journal of Statistical Physics, 1984, 36, 519-539.	1.2	13
52	Comment on the equivalence between fracton/spectral dimensionality, and the dimensionality of recurrence. Journal of Statistical Physics, 1984, 36, 541-543.	1.2	9
53	A new model of percolation clusters. Journal of Statistical Physics, 1984, 36, 545-545.	1.2	0
54	Physical Properties of a New Fractal Model of Percolation Clusters. Physical Review Letters, 1984, 52, 1853-1856.	7.8	94

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55	ON THE AGGREGATIVE FRACTALS CALLED "SQUIGS", WHICH INCLUDE RECURSIVE MODELS OF POLYMERS AND OF PERCOLATION CLUSTERS. , 1984, , 5-7.		2
56	On the quadratic mapping $z \mapsto z^2 - \frac{1}{4}$ for complex $\frac{1}{4}$ and z : The fractal structure of its set, and scaling. Physica D: Nonlinear Phenomena, 1983, 7, 224-239.	2.8	42
57	Geometric Implementation of Hypercubic Lattices with Noninteger Dimensionality by Use of Low Lacunarity Fractal Lattices. Physical Review Letters, 1983, 50, 145-148.	7.8	227
58	Solvable Fractal Family, and Its Possible Relation to the Backbone at Percolation. Physical Review Letters, 1981, 47, 1771-1774.	7.8	364
59	FRACTAL ASPECTS OF THE ITERATION OF $z \mapsto z(1-z)$ FOR COMPLEX $\frac{1}{2}$ AND z . Annals of the New York Academy of Sciences, 1980, 357, 249-259.	3.8	216
60	Critical Phenomena on Fractal Lattices. Physical Review Letters, 1980, 45, 855-858.	7.8	408
61	Limit theorems on the self-normalized range for weakly and strongly dependent processes. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1975, 31, 271-285.	0.8	142
62	On the geometry of homogeneous turbulence, with stress on the fractal dimension of the iso-surfaces of scalars. Journal of Fluid Mechanics, 1975, 72, 401.	3.4	243
63	Intermittent turbulence in self-similar cascades: divergence of high moments and dimension of the carrier. Journal of Fluid Mechanics, 1974, 62, 331-358.	3.4	1,683
64	Comments on: "A Subordinated Stochastic Process Model with Finite Variance for Speculative Prices," by Peter K. Clark. Econometrica, 1973, 41, 157.	4.2	52
65	Possible refinement of the lognormal hypothesis concerning the distribution of energy dissipation in intermittent turbulence. Lecture Notes in Physics, 1972, , 333-351.	0.7	159
66	Broken line process derived as an approximation to fractional noise. Water Resources Research, 1972, 8, 1354-1356.	4.2	28
67	Renewal sets and random cutouts. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1972, 22, 145-157.	0.8	56
68	On Dvoretzky coverings for the circle. Zeitschrift für Wahrscheinlichkeitstheorie Und Verwandte Gebiete, 1972, 22, 158-160.	0.8	21
69	When Can Price be Arbitraged Efficiently? A Limit to the Validity of the Random Walk and Martingale Models. Review of Economics and Statistics, 1971, 53, 225.	4.3	362
70	A Fast Fractional Gaussian Noise Generator. Water Resources Research, 1971, 7, 543-553.	4.2	263
71	On the Secular Pole Motion and the Chandler Wobble. Geophysical Journal International, 1970, 21, 217-232.	2.4	32
72	Comment on "Stochastic Models in Hydrology"™ by Adrian E. Scheidegger. Water Resources Research, 1970, 6, 1791-1791.	4.2	7

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73	Computer Experiments With Fractional Gaussian Noises: Part 1, Averages and Variances. Water Resources Research, 1969, 5, 228-241.	4.2	476
74	Computer Experiments with Fractional Gaussian Noises: Part 2, Rescaled Ranges and Spectra. Water Resources Research, 1969, 5, 242-259.	4.2	144
75	Computer Experiments with Fractional Gaussian Noises: Part 3, Mathematical Appendix. Water Resources Research, 1969, 5, 260-267.	4.2	115
76	Some long-run properties of geophysical records. Water Resources Research, 1969, 5, 321-340.	4.2	825
77	Reply [to "Comments on "Noah, Joseph, and Operational Hydrology" by Benoit B. Mandelbrot and James R. Wallis]. Water Resources Research, 1969, 5, 917-920.	4.2	6
78	Robustness of the rescaled range R/S in the measurement of noncyclic long run statistical dependence. Water Resources Research, 1969, 5, 967-988.	4.2	788
79	Fractional Brownian Motions, Fractional Noises and Applications. SIAM Review, 1968, 10, 422-437.	9.5	6,147
80	Noah, Joseph, and Operational Hydrology. Water Resources Research, 1968, 4, 909-918.	4.2	910