Christoph Bandt

List of Publications by Year
in descending order

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62 papers	4,856 citations	331670 21 h-index	161849 54 g-index
62 all docs	62 docs citations	62 times ranked	3631 citing authors

#	Article	IF	Citations
1	Permutation Entropy: A Natural Complexity Measure for Time Series. Physical Review Letters, 2002, 88, 174102.	7.8	3,386
2	Entropy of interval maps via permutations. Nonlinearity, 2002, 15, 1595-1602.	1.4	183
3	Ordinal time series analysis. Ecological Modelling, 2005, 182, 229-238.	2.5	134
4	Order Patterns in Time Series. Journal of Time Series Analysis, 2007, 28, 646-665.	1.2	130
5	A New Kind of Permutation Entropy Used to Classify Sleep Stages from Invisible EEG Microstructure. Entropy, 2017, 19, 197.	2.2	70
6	Women are periodontally healthier than men, but why don't they have more teeth than men?. Menopause, 2008, 15, 270-275.	2.0	60
7	Disk-Like Self-Affine Tiles in R 2. Discrete and Computational Geometry, 2001, 26, 591-601.	0.6	59
8	Classification of Self-Affine Lattice Tilings. Journal of the London Mathematical Society, 1994, 50, 581-593.	1.0	50
9	Quality Improvement Initiative for Severe Sepsis and Septic Shock Reduces 90-Day Mortality: A 7.5-Year Observational Study*. Critical Care Medicine, 2017, 45, 241-252.	0.9	49
10	Self-similar sets. V. Integer matrices and fractal tilings of ?â¿. Proceedings of the American Mathematical Society, 1991, 112, 549-562.	0.8	48
11	Self-Similar Sets 5. Integer Matrices and Fractal Tilings of â„•n. Proceedings of the American Mathematical Society, 1991, 112, 549.	0.8	48
12	Self-Similar Sets. I. Topological MARKOV Chains and Mixed Self-Similar Sets. Mathematische Nachrichten, 1989, 142, 107-123.	0.8	41
13	On the open set condition for self-similar fractals. Proceedings of the American Mathematical Society, 2005, 134, 1369-1374.	0.8	38
14	Serum osmolality and outcome in intensive care unit patients. Acta Anaesthesiologica Scandinavica, 2006, 50, 970-977.	1.6	38
15	Self-similar sets 3. Constructions with sofic systems. Monatshefte Fur Mathematik, 1989, 108, 89-102.	0.9	37
16	Self-Similar Sets 7. A Characterization of Self-Similar Fractals with Positive Hausdorff Measure. Proceedings of the American Mathematical Society, 1992, 114, 995.	0.8	33
17	Self-Similar Sets 2. A Simple Approach to the Topological Structure of Fractals. Mathematische Nachrichten, 1991, 154, 27-39.	0.8	29
18	On the Mandelbrot set for pairs of linear maps. Nonlinearity, 2002, 15, 1127-1147.	1.4	29

#	Article	IF	Citations
19	Topology and separation of self-similar fractals in the plane. Nonlinearity, 2007, 20, 1463-1474.	1.4	28
20	Small Order Patterns in Big Time Series: A Practical Guide. Entropy, 2019, 21, 613.	2.2	28
21	Fractal Penrose tilings I. Construction and matching rules. Aequationes Mathematicae, 1997, 53, 295-307.	0.8	23
22	A cluster approach to random Penrose tilings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 250-253.	5.6	21
23	Topological spaces admitting a unique fractal structure. Fundamenta Mathematicae, 1992, 141, 257-268.	0.5	20
24	Metrically invariant measures on locally homogeneous spaces and hyperspaces. Pacific Journal of Mathematics, 1986, 121, 13-28.	0.5	19
25	Self-Similar Tilings and Patterns Described by Mappings. , 1997, , 45-83.		17
26	Self-affine fractals of finite type. , 0, , .		17
27	Order patterns, their variation and change points in financial time series and Brownian motion. Statistical Papers, 2020, 61, 1565-1588.	1.2	15
28	Fractaln-gons and their Mandelbrot sets. Nonlinearity, 2008, 21, 2653-2670.	1.4	14
29	A simple classification tool for singleâ€trial analysis of ERP components. Psychophysiology, 2009, 46, 747-757.	2.4	14
30	On the Metric Structure of Hyperspaces with HAUSDORFF Metric. Mathematische Nachrichten, 1986, 129, 175-183.	0.8	13
31	Entropy Ratio and Entropy Concentration Coefficient, with Application to the COVID-19 Pandemic. Entropy, 2020, 22, 1315.	2.2	13
32	Differentiability of fractal curves. Nonlinearity, 2011, 24, 2717-2728.	1.4	12
33	Local structure of self-affine sets. Ergodic Theory and Dynamical Systems, 2013, 33, 1326-1337.	0.6	11
34	Permutation Entropy and Order Patterns in Long Time Series. Contributions To Statistics, 2016, , 61-73.	0.2	11
35	Analysis of Bivariate Coupling by Means of Recurrence. , 2008, , 153-182.		10
36	Composants of the horseshoe. Fundamenta Mathematicae, 1994, 144, 231-241.	0.5	9

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37	On WALLMAN-SHANIN-compactifications. Mathematische Nachrichten, 1977, 77, 333-351.	0.8	8
38	The entropy profile ? A function describing statistical dependences. Journal of Statistical Physics, 1993, 70, 967-983.	1.2	8
39	Symbolic dynamics for angle-doubling on the circle. II. Symbolic description of the abstract Mandelbrot set. Nonlinearity, 1993, 6, 377-392.	1.4	8
40	Local Geometry of Fractals Given by Tangent Measure Distributions. Monatshefte Fur Mathematik, 2001, 133, 265-280.	0.9	8
41	Old wine in fractal bottles I: Orthogonal expansions on self-referential spaces via fractal transformations. Chaos, Solitons and Fractals, 2016, 91, 478-489.	5.1	7
42	The Discrete Evolution Model of Bak and Sneppen is Conjugate to the Classical Contact Process. Journal of Statistical Physics, 2005, 120, 685-693.	1.2	6
43	A single fractal pinwheel tile. Proceedings of the American Mathematical Society, 2018, 146, 1271-1285.	0.8	6
44	Fractal exponents for the upper airways of mammalian lungs. Computational Statistics and Data Analysis, 1995, 20, 583-590.	1.2	5
45	The Geometry of a Parameter Space of Interacting Particle Systems. Journal of Statistical Physics, 1999, 96, 883-906.	1.2	5
46	Self-similar sets with an open set condition and great variety of overlaps. Proceedings of the American Mathematical Society, 2008, 136, 3895-3903.	0.8	5
47	Elementary fractal geometry. New relatives of the SierpiÅ„ski gasket. Chaos, 2018, 28, 063104.	2.5	5
48	Self-Similar Measures. , 2001, , 31-46.		5
49	Computer Geometry: Rep-Tiles with a Hole. Mathematical Intelligencer, 2020, 42, 1-5.	0.2	4
50	Spaces of largest Hausdorff dimension. Mathematika, 1981, 28, 206-210.	0.5	3
51	Some questions and examples concerning HAUSDORFF measures. Mathematische Nachrichten, 1981, 104, 171-182.	0.8	3
52	Entropy profiles of speech signals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 175, 305-313.	2.1	3
53	Case 1: Unexpected muscular hypotonia and need for mechanical ventilation in a preterm infant (Case) Tj ETQq1 1 0.784314 rgBT /Ov	1.5	3
54	Self-Similarity and Probability: Parameters Describing the Geometry of Cantor Sets. Bulletin of the London Mathematical Society, 1999, 31, 181-190.	0.8	2

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55	Three-Dimensional Fractals. Mathematical Intelligencer, 2010, 32, 12-18.	0.2	2
56	Permutation designs. Journal of Combinatorial Theory - Series A, 1976, 21, 384-392.	0.8	1
57	Serum osmolality in intensive care unit patients. Acta Anaesthesiologica Scandinavica, 2007, 51, 383-384.	1.6	1
58	Simple Infinitely Ramified Self-Similar Sets. Applied and Numerical Harmonic Analysis, 2010, , 235-249.	0.3	1
59	Case 1: Unexpected muscular hypotonia and need for mechanical ventilation in a preterm infant (Discussion and Diagnosis). Acta Paediatrica, International Journal of Paediatrics, 2008, 97, 1758-1759.	1.5	0
60	Geometry of Self-similar Sets. Springer Proceedings in Mathematics and Statistics, 2014, , 21-36.	0.2	0
61	Die Wirkungen von Hausdorffs Arbeit Ã¼ber Dimension und ÃuÃŸeres MaÃŸ. , 1996, , 149-183.		0
62	Elementary Fractal Geometry. 2. Carpets Involving Irrational Rotations. Fractal and Fractional, 2022, 6, 39.	3.3	0