

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	Elementary Fractal Geometry. 2. Carpets Involving Irrational Rotations. Fractal and Fractional, 2022, 6, 39.	3.3	0
2	Computer Geometry: Rep-Tiles with a Hole. Mathematical Intelligencer, 2020, 42, 1-5.	0.2	4
3	Entropy Ratio and Entropy Concentration Coefficient, with Application to the COVID-19 Pandemic. Entropy, 2020, 22, 1315.	2.2	13
4	Order patterns, their variation and change points in financial time series and Brownian motion. Statistical Papers, 2020, 61, 1565-1588.	1.2	15
5	Small Order Patterns in Big Time Series: A Practical Guide. Entropy, 2019, 21, 613.	2.2	28
6	A single fractal pinwheel tile. Proceedings of the American Mathematical Society, 2018, 146, 1271-1285.	0.8	6
7	Elementary fractal geometry. New relatives of the Sierpiński gasket. Chaos, 2018, 28, 063104.	2.5	5
8	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
9	A New Kind of Permutation Entropy Used to Classify Sleep Stages from Invisible EEG Microstructure. Entropy, 2017, 19, 197.	2.2	70
10	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
11	Permutation Entropy and Order Patterns in Long Time Series. Contributions To Statistics, 2016, , 61-73.	0.2	11
12	Geometry of Self-similar Sets. Springer Proceedings in Mathematics and Statistics, 2014, , 21-36.	0.2	0
13	Local structure of self-affine sets. Ergodic Theory and Dynamical Systems, 2013, 33, 1326-1337.	0.6	11
14	Differentiability of fractal curves. Nonlinearity, 2011, 24, 2717-2728.	1.4	12
15	Three-Dimensional Fractals. Mathematical Intelligencer, 2010, 32, 12-18.	0.2	2
16	Simple Infinitely Ramified Self-Similar Sets. Applied and Numerical Harmonic Analysis, 2010, , 235-249.	0.3	1
17	A simple classification tool for single-trial analysis of ERP components. Psychophysiology, 2009, 46, 747-757.	2.4	14
18	Case 1: Unexpected muscular hypotonia and need for mechanical ventilation in a preterm infant (Case) Tj ETQq0 0 0,rgBT /Overlock 10	1.5	3

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19	Case 1: Unexpected muscular hypotonia and need for mechanical ventilation in a preterm infant (Discussion and Diagnosis). <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2008, 97, 1758-1759.	1.5	0
20	Fractal n-gons and their Mandelbrot sets. <i>Nonlinearity</i> , 2008, 21, 2653-2670.	1.4	14
21	Self-similar sets with an open set condition and great variety of overlaps. <i>Proceedings of the American Mathematical Society</i> , 2008, 136, 3895-3903.	0.8	5
22	Women are periodontally healthier than men, but why don't they have more teeth than men?. <i>Menopause</i> , 2008, 15, 270-275.	2.0	60
23	Analysis of Bivariate Coupling by Means of Recurrence. , 2008, , 153-182.		10
24	Topology and separation of self-similar fractals in the plane. <i>Nonlinearity</i> , 2007, 20, 1463-1474.	1.4	28
25	Order Patterns in Time Series. <i>Journal of Time Series Analysis</i> , 2007, 28, 646-665.	1.2	130
26	Serum osmolality in intensive care unit patients. <i>Acta Anaesthesiologica Scandinavica</i> , 2007, 51, 383-384.	1.6	1
27	Serum osmolality and outcome in intensive care unit patients. <i>Acta Anaesthesiologica Scandinavica</i> , 2006, 50, 970-977.	1.6	38
28	On the open set condition for self-similar fractals. <i>Proceedings of the American Mathematical Society</i> , 2005, 134, 1369-1374.	0.8	38
29	Ordinal time series analysis. <i>Ecological Modelling</i> , 2005, 182, 229-238.	2.5	134
30	The Discrete Evolution Model of Bak and Sneppen is Conjugate to the Classical Contact Process. <i>Journal of Statistical Physics</i> , 2005, 120, 685-693.	1.2	6
31	On the Mandelbrot set for pairs of linear maps. <i>Nonlinearity</i> , 2002, 15, 1127-1147.	1.4	29
32	Entropy of interval maps via permutations. <i>Nonlinearity</i> , 2002, 15, 1595-1602.	1.4	183
33	Permutation Entropy: A Natural Complexity Measure for Time Series. <i>Physical Review Letters</i> , 2002, 88, 174102.	7.8	3,386
34	Local Geometry of Fractals Given by Tangent Measure Distributions. <i>Monatshefte Fur Mathematik</i> , 2001, 133, 265-280.	0.9	8
35	Disk-Like Self-Affine Tiles in \mathbb{R}^2 . <i>Discrete and Computational Geometry</i> , 2001, 26, 591-601.	0.6	59
36	Self-Similar Measures. , 2001, , 31-46.		5

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37	A cluster approach to random Penrose tilings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 294-296, 250-253.	5.6	21
38	Self-Similarity and Probability: Parameters Describing the Geometry of Cantor Sets. <i>Bulletin of the London Mathematical Society</i> , 1999, 31, 181-190.	0.8	2
39	The Geometry of a Parameter Space of Interacting Particle Systems. <i>Journal of Statistical Physics</i> , 1999, 96, 883-906.	1.2	5
40	Fractal Penrose tilings I. Construction and matching rules. <i>Aequationes Mathematicae</i> , 1997, 53, 295-307.	0.8	23
41	Self-Similar Tilings and Patterns Described by Mappings. , 1997, , 45-83.		17
42	Die Wirkungen von Hausdorffs Arbeit $\frac{1}{4}$ ber Dimension und \ddot{u} beres Ma \ddot{u} . , 1996, , 149-183.		0
43	Fractal exponents for the upper airways of mammalian lungs. <i>Computational Statistics and Data Analysis</i> , 1995, 20, 583-590.	1.2	5
44	Classification of Self-Affine Lattice Tilings. <i>Journal of the London Mathematical Society</i> , 1994, 50, 581-593.	1.0	50
45	Composants of the horseshoe. <i>Fundamenta Mathematicae</i> , 1994, 144, 231-241.	0.5	9
46	Entropy profiles of speech signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 175, 305-313.	2.1	3
47	The entropy profile η A function describing statistical dependences. <i>Journal of Statistical Physics</i> , 1993, 70, 967-983.	1.2	8
48	Symbolic dynamics for angle-doubling on the circle. II. Symbolic description of the abstract Mandelbrot set. <i>Nonlinearity</i> , 1993, 6, 377-392.	1.4	8
49	Self-Similar Sets 7. A Characterization of Self-Similar Fractals with Positive Hausdorff Measure. <i>Proceedings of the American Mathematical Society</i> , 1992, 114, 995.	0.8	33
50	Topological spaces admitting a unique fractal structure. <i>Fundamenta Mathematicae</i> , 1992, 141, 257-268.	0.5	20
51	Self-similar sets. V. Integer matrices and fractal tilings of $\hat{\mathbb{Z}}$. <i>Proceedings of the American Mathematical Society</i> , 1991, 112, 549-562.	0.8	48
52	Self-Similar Sets 2. A Simple Approach to the Topological Structure of Fractals. <i>Mathematische Nachrichten</i> , 1991, 154, 27-39.	0.8	29
53	Self-Similar Sets 5. Integer Matrices and Fractal Tilings of $\hat{\mathbb{Z}}$. <i>Proceedings of the American Mathematical Society</i> , 1991, 112, 549.	0.8	48
54	Self-similar sets 3. Constructions with sofic systems. <i>Monatshefte Fur Mathematik</i> , 1989, 108, 89-102.	0.9	37

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55	Self-Similar Sets. I. Topological MARKOV Chains and Mixed Self-Similar Sets. Mathematische Nachrichten, 1989, 142, 107-123.	0.8	41
56	On the Metric Structure of Hyperspaces with HAUSDORFF Metric. Mathematische Nachrichten, 1986, 129, 175-183.	0.8	13
57	Metrically invariant measures on locally homogeneous spaces and hyperspaces. Pacific Journal of Mathematics, 1986, 121, 13-28.	0.5	19
58	Spaces of largest Hausdorff dimension. Mathematika, 1981, 28, 206-210.	0.5	3
59	Some questions and examples concerning HAUSDORFF measures. Mathematische Nachrichten, 1981, 104, 171-182.	0.8	3
60	On WALLMAN-SHANIN-compactifications. Mathematische Nachrichten, 1977, 77, 333-351.	0.8	8
61	Permutation designs. Journal of Combinatorial Theory - Series A, 1976, 21, 384-392.	0.8	1
62	Self-affine fractals of finite type. , 0, , .		17