

Armin Bunde

List of Publications by Year in descending order

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199
papers

15,174
citations

36303

51
h-index

19190

118
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201
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201
docs citations

201
times ranked

8559
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifractal detrended fluctuation analysis of nonstationary time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 316, 87-114.	2.6	2,846
2	Detecting long-range correlations with detrended fluctuation analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 295, 441-454.	2.6	1,164
3	Indication of a Universal Persistence Law Governing Atmospheric Variability. <i>Physical Review Letters</i> , 1998, 81, 729-732.	7.8	599
4	Deceleration capacity of heart rate as a predictor of mortality after myocardial infarction: cohort study. <i>Lancet, The</i> , 2006, 367, 1674-1681.	13.7	502
5	Correlated and Uncorrelated Regions in Heart-Rate Fluctuations during Sleep. <i>Physical Review Letters</i> , 2000, 85, 3736-3739.	7.8	495
6	Comparison of detrended fluctuation analysis and spectral analysis for heart rate variability in sleep and sleep apnea. <i>IEEE Transactions on Biomedical Engineering</i> , 2003, 50, 1143-1151.	4.2	400
7	Long-term persistence and multifractality of precipitation and river runoff records. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	311
8	Long-Term Memory: A Natural Mechanism for the Clustering of Extreme Events and Anomalous Residual Times in Climate Records. <i>Physical Review Letters</i> , 2005, 94, 048701.	7.8	301
9	Ion transport anomalies in glasses. <i>Physical Review Letters</i> , 1992, 68, 3064-3067.	7.8	293
10	The dynamic structure model for ion transport in glasses. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 1222-1236.	3.1	288
11	Influence of Dipolar Interaction on Magnetic Properties of Ultrafine Ferromagnetic Particles. <i>Physical Review Letters</i> , 2000, 84, 167-170.	7.8	283
12	Long-term persistence and multifractality of river runoff records: Detrended fluctuation studies. <i>Journal of Hydrology</i> , 2006, 322, 120-137.	5.4	265
13	Stability and Topology of Scale-Free Networks under Attack and Defense Strategies. <i>Physical Review Letters</i> , 2005, 94, 188701.	7.8	248
14	Scaling and memory in volatility return intervals in financial markets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 9424-9428.	7.1	229
15	Dimension of spatially embedded networks. <i>Nature Physics</i> , 2011, 7, 481-484.	16.7	205
16	Multifractality of river runoff and precipitation: comparison of fluctuation analysis and wavelet methods. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 330, 240-245.	2.6	201
17	Phase-rectified signal averaging detects quasi-periodicities in non-stationary data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 423-434.	2.6	187
18	Slow relaxation in ferromagnetic nanoparticles: Indication of spin-glass behavior. <i>Physical Review B</i> , 2003, 67, .	3.2	175

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19	Characterization of sleep stages by correlations in the magnitude and sign of heartbeat increments. <i>Physical Review E</i> , 2002, 65, 051908.	2.1	161
20	Very early warning of next El Niño. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 2064-2066.	7.1	158
21	Effect of Nonlinear Correlations on the Statistics of Return Intervals in Multifractal Data Sets. <i>Physical Review Letters</i> , 2007, 99, 240601.	7.8	136
22	Improved El Niño forecasting by cooperativity detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11742-11745.	7.1	136
23	Memory in the Occurrence of Earthquakes. <i>Physical Review Letters</i> , 2005, 95, 208501.	7.8	130
24	Long-term persistence in the sea surface temperature fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 581-589.	2.6	129
25	Nanocrystalline versus Microcrystalline Li ₂ O:B ₂ O ₃ Composites: Anomalous Ionic Conductivities and Percolation Theory. <i>Physical Review Letters</i> , 2000, 84, 2889-2892.	7.8	123
26	Statistics of return intervals in long-term correlated records. <i>Physical Review E</i> , 2007, 75, 011128.	2.1	121
27	Long-term persistence in climate and the detection problem. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	119
28	Analysis of daily temperature fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 393-396.	2.6	118
29	Improving immunization strategies. <i>Physical Review E</i> , 2007, 75, 045104.	2.1	113
30	Nonstandard relaxation behavior in ionically conducting materials. <i>Physical Review B</i> , 1995, 51, 8164-8177.	3.2	112
31	Global Climate Models Violate Scaling of the Observed Atmospheric Variability. <i>Physical Review Letters</i> , 2002, 89, 028501.	7.8	112
32	The effect of long-term correlations on the return periods of rare events. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 330, 1-7.	2.6	99
33	Ionic glasses: History and challenges. <i>Solid State Ionics</i> , 1998, 105, 1-13.	2.7	98
34	The Science of Disasters. , 2002, , .		89
35	Spin-lattice relaxation: Non-Bloembergen-Purcell-Pound behavior by structural disorder and Coulomb interactions. <i>Physical Review Letters</i> , 1993, 71, 573-576.	7.8	88
36	Long-term memory in 1000-year simulated temperature records. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	87

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37	Extreme value statistics in records with long-term persistence. <i>Physical Review E</i> , 2006, 73, 016130.	2.1	84
38	Microscopic Explanation of the Non-Arrhenius Conductivity in Glassy Fast Ionic Conductors. <i>Physical Review Letters</i> , 1996, 77, 1528-1531.	7.8	82
39	Universality Classes for Spreading Phenomena: A New Model with Fixed Static but Continuously Tunable Kinetic Exponents. <i>Physical Review Letters</i> , 1985, 55, 653-656.	7.8	81
40	Multifractal features of random walks on random fractals. <i>Physical Review A</i> , 1990, 42, 6274-6277.	2.5	78
41	On spurious and corrupted multifractality: The effects of additive noise, short-term memory and periodic trends. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 2480-2490.	2.6	78
42	Optimal Path in Strong Disorder and Shortest Path in Invasion Percolation with Trapping. <i>Physical Review Letters</i> , 1997, 79, 4060-4062.	7.8	75
43	Structural and dynamical properties of the percolation backbone in two and three dimensions. <i>Physical Review E</i> , 1997, 56, 1667-1675.	2.1	71
44	Return intervals of rare events in records with long-term persistence. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 342, 308-314.	2.6	70
45	Is there memory in precipitation?. <i>Nature Climate Change</i> , 2013, 3, 174-175.	18.8	70
46	A new interpretation of the dynamic structure model of ion transport in molten and solid glasses. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3663-3668.	2.8	64
47	Percolation model for mixed alkali effects in solid ionic conductors. <i>Journal of Chemical Physics</i> , 1986, 85, 4123-4128.	3.0	62
48	Excess modes in the vibrational spectrum of disordered systems and the boson peak. <i>Physical Review B</i> , 2001, 63, .	3.2	61
49	A unified site relaxation model for ion mobility in glassy materials. <i>Solid State Ionics</i> , 1996, 86-88, 1311-1317.	2.7	59
50	Long-term persistence enhances uncertainty about anthropogenic warming of Antarctica. <i>Climate Dynamics</i> , 2016, 46, 263-271.	3.8	59
51	Breathing during REM and non-REM sleep: correlated versus uncorrelated behaviour. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 319, 447-457.	2.6	58
52	Long-range power-law correlations in local daily temperature fluctuations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1331-1340.	0.6	56
53	Power-law persistence in the atmosphere and in the oceans. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 314, 15-24.	2.6	50
54	Nonlinear volatility of river flux fluctuations. <i>Physical Review E</i> , 2003, 67, 042101.	2.1	50

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55	Long-term analysis of air temperature trends in Central Asia. <i>Erdkunde</i> , 2007, 61, 186-202.	0.8	50
56	Anomalous Size Dependence of Relaxational Processes. <i>Physical Review Letters</i> , 1997, 78, 3338-3341.	7.8	49
57	Long term persistence in the atmosphere: global laws and tests of climate models. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 302, 255-267.	2.6	48
58	Improved risk estimation in multifractal records: Application to the value at risk in finance. <i>Physical Review E</i> , 2009, 80, 026131.	2.1	48
59	Vibrational excitations in percolation: Localization and multifractality. <i>Physical Review Letters</i> , 1992, 69, 3189-3192.	7.8	47
60	Memory effects in the statistics of interoccurrence times between large returns in financial records. <i>Physical Review E</i> , 2008, 78, 036114.	2.1	47
61	Distribution of natural trends in long-term correlated records: A scaling approach. <i>Physical Review E</i> , 2011, 84, 021129.	2.1	47
62	Eliminating finite-size effects and detecting the amount of white noise in short records with long-term memory. <i>Physical Review E</i> , 2009, 79, 066101.	2.1	46
63	Phase synchronization in temperature and precipitation records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 320, 601-610.	2.6	45
64	Optimal paths in disordered media: Scaling of the crossover from self-similar to self-affine behavior. <i>Physical Review E</i> , 1999, 60, R2448-R2451.	2.1	44
65	Comment on "Delocalization in the 1D Anderson Model with Long-Range Correlated Disorder". <i>Physical Review Letters</i> , 2000, 84, 198-198.	7.8	43
66	Scale-dependent diffusion anisotropy in nanoporous silicon. <i>Scientific Reports</i> , 2017, 7, 40207.	3.3	43
67	Long-range correlations and trends in global climate models: Comparison with real data. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 294, 239-248.	2.6	41
68	Percolation of spatially constraint networks. <i>Europhysics Letters</i> , 2011, 93, 68004.	2.0	41
69	Testing reanalysis data sets in Antarctica: Trends, persistence properties, and trend significance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12,839.	3.3	41
70	Increase of the Antarctic Sea Ice Extent is highly significant only in the Ross Sea. <i>Scientific Reports</i> , 2017, 7, 41096.	3.3	41
71	Application of percolation theory in composites and glasses. <i>Solid State Ionics</i> , 1995, 75, 147-155.	2.7	40
72	On the detection of trends in long-term correlated records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 1687-1695.	2.6	40

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73	How significant is West Antarctic warming?. <i>Nature Geoscience</i> , 2014, 7, 246-247.	12.9	40
74	Nonuniversality of diffusion exponents in percolation systems. <i>Physical Review B</i> , 1986, 34, 3540-3542.	3.2	39
75	Mixed Alkali Effect in Crystals of α - and β -Alumina Structure. <i>Physical Review Letters</i> , 1996, 76, 2338-2341.	7.8	38
76	Are the phases in the Anderson model long-range correlated?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 461-464.	2.6	38
77	Electrochemical Investigations of Polyethylene Glycol-Based "Soggy Sand" Electrolytes " From the Local Mechanism to the Overall Conduction. <i>Advanced Functional Materials</i> , 2011, 21, 3961-3966.	14.9	38
78	Diffusion on fractals with singular waiting-time distribution. <i>Physical Review B</i> , 1987, 36, 3874-3879.	3.2	37
79	Hopping transport in the presence of site-energy disorder: Temperature and concentration scaling of conductivity spectra. <i>Physical Review B</i> , 2000, 61, 6057-6062.	3.2	37
80	AC and DC Conductivity in Nano- and Microcrystalline $\text{Li}_2\text{O} \cdot \text{B}_2\text{O}_3$ Composites: Experimental Results and Theoretical Models. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005, 219, 89-103.	2.8	37
81	Complexity-based approach for El Niño magnitude forecasting before the spring predictability barrier. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 177-183.	7.1	37
82	Diffusion with a topological bias on random structures with a power-law distribution of dangling ends. <i>Physical Review A</i> , 1986, 34, 3492-3495.	2.5	36
83	Multifractal behavior of linear polymers in disordered media. <i>Physical Review E</i> , 2000, 61, 6858-6865.	2.1	36
84	Clustering of independently diffusing individuals by birth and death processes. <i>Physical Review E</i> , 1996, 54, 5567-5570.	2.1	35
85	Localization in self-affine energy landscapes. <i>Physical Review B</i> , 2001, 64, .	3.2	34
86	Statistics of return intervals between long heartbeat intervals and their usability for online prediction of disorders. <i>New Journal of Physics</i> , 2009, 11, 063036.	2.9	34
87	Probability densities of random walks in random systems. <i>Physica D: Nonlinear Phenomena</i> , 1989, 38, 184-191.	2.8	33
88	Long term memory in extreme returns of financial time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2009, 388, 4145-4150.	2.6	32
89	Forecasting the magnitude and onset of El Niño based on climate network. <i>New Journal of Physics</i> , 2018, 20, 043036.	2.9	32
90	Are Branched Polymers in the Universality Class of Percolation?. <i>Physical Review Letters</i> , 1995, 74, 2714-2716.	7.8	31

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91	On the predictability of extreme events in records with linear and nonlinear long-range memory: Efficiency and noise robustness. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2011, 390, 2240-2250.	2.6	31
92	Universal Internucleotide Statistics in Full Genomes: A Footprint of the DNA Structure and Packaging?. <i>PLoS ONE</i> , 2014, 9, e112534.	2.5	31
93	Percolation I. , 1991, , 51-96.		31
94	Complex networks embedded in space: Dimension and scaling relations between mass, topological distance, and Euclidean distance. <i>Physical Review E</i> , 2013, 87, .	2.1	30
95	Extended Fractons and Localized Phonons on Percolation Clusters. <i>Physical Review Letters</i> , 1998, 81, 4907-4910.	7.8	29
96	Percolation and gas sensitivity in nanocrystalline metal oxide films. <i>Applied Physics Letters</i> , 2004, 85, 242-244.	3.3	28
97	Mesoporeâ€Promoted Transport in Microporous Materials. <i>Chemie-Ingenieur-Technik</i> , 2015, 87, 1794-1809.	0.8	28
98	Volatility in atmospheric temperature variability. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 318, 529-536.	2.6	26
99	On the Occurrence of Extreme Events in Long-term Correlated and Multifractal Data Sets. <i>Pure and Applied Geophysics</i> , 2008, 165, 1195-1207.	1.9	26
100	Universal behavior of the interoccurrence times between losses in financial markets: Independence of the time resolution. <i>Physical Review E</i> , 2014, 90, 062809.	2.1	26
101	Significance of trends in long-term correlated records. <i>Physical Review E</i> , 2015, 91, 032806.	2.1	26
102	Detecting the statistical significance of the trends in the Antarctic sea ice extent: an indication for a turning point. <i>Climate Dynamics</i> , 2019, 53, 237-244.	3.8	26
103	Localization in disordered structures: Breakdown of the self-averaging hypothesis. <i>Physical Review E</i> , 1995, 52, 53-56.	2.1	25
104	Structural properties of invasion percolation with and without trapping: Shortest path and distributions. <i>Physical Review E</i> , 1999, 59, 3262-3269.	2.1	25
105	Li ion transport and interface percolation in nano- and microcrystalline composites. <i>Physical Chemistry Chemical Physics</i> , 2004, 006, 3680-3683.	2.8	25
106	Diffusion Limited Percolation: A Model for Transport in Ionic Glasses. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991, 95, 977-983.	0.9	24
107	Ion hopping processes and structural relaxation in glassy materials. <i>Journal of Non-Crystalline Solids</i> , 1996, 203, 246-251.	3.1	24
108	Superstatistical model of bacterial DNA architecture. <i>Scientific Reports</i> , 2017, 7, 43034.	3.3	24

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109	Statistical significance of seasonal warming/cooling trends. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2998-E3003.	7.1	24
110	Network-based forecasting of climate phenomena. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
111	Probability distribution of the shortest path on the percolation cluster, its backbone, and skeleton. Physical Review E, 1998, 58, R5205-R5208.	2.1	23
112	Percolation II. , 1991, , 97-150.		23
113	Diffusion in disordered systems: non-Debye relaxation due to long-range interactions. Journal of Non-Crystalline Solids, 1991, 131-133, 1022-1027.	3.1	22
114	Scaling analysis of trends using DFA. Physica A: Statistical Mechanics and Its Applications, 2001, 302, 234-243.	2.6	22
115	Structural and functional properties of spatially embedded scale-free networks. Physical Review E, 2014, 89, 062806.	2.1	22
116	Diffusion and Conduction in Percolation Systems. , 2005, , 895-914.		22
117	Electrons and fractons on percolation structures at criticality: Sublocalization and superlocalization. Physical Review E, 1997, 56, 6693-6701.	2.1	21
118	Sublocalization, superlocalization, and violation of standard single-parameter scaling in the Anderson model. Physical Review B, 2002, 66, .	3.2	21
119	Anomalously slow trapping of nonidentical interacting particles by random sinks. Physical Review A, 1986, 34, 2575-2578.	2.5	20
120	Diffusion in the presence of random fields and transition rates: Effect of the hard-core interaction. Physical Review A, 1988, 37, 1821-1823.	2.5	20
121	Physics on fractal structures. , 1986, , 113-132.		19
122	Localization and typical spatial behavior of fractons. Physical Review Letters, 1991, 66, 1643-1643.	7.8	19
123	Ionic Transport in Disordered Materials. , 2005, , 813-856.		19
124	Anomalous trapping: Effect of interaction between diffusing particles. Physical Review B, 1985, 32, 3367-3369.	3.2	18
125	Missing data in aftershock sequences: Explaining the deviations from scaling laws. Physical Review E, 2008, 78, 041115.	2.1	18
126	Statistical prediction of protein structural, localization and functional properties by the analysis of its fragment mass distributions after proteolytic cleavage. Scientific Reports, 2016, 6, 22286.	3.3	18

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127	Transport anomalies in glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1993, 200, 80-94.	2.6	17
128	Ion conducting particle networks in liquids: modeling of network percolation and stability. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2663-2666.	2.8	17
129	Percolation model of a nanocrystalline gas sensitive layer. <i>Thin Solid Films</i> , 2001, 391, 299-302.	1.8	16
130	Ising-like dynamics and frozen states in systems of ultrafine magnetic particles. <i>Physical Review B</i> , 2007, 75, .	3.2	16
131	Long-term correlations in earth sciences. <i>Acta Geophysica</i> , 2012, 60, 562-588.	2.0	16
132	Anomalous transport in disordered media. <i>Solid State Ionics</i> , 1988, 28-30, 34-40.	2.7	15
133	Anomalous ballistic diffusion. <i>Physical Review B</i> , 1986, 34, 445-447.	3.2	14
134	From the eden model to the kinetic growth walk: A generalized growth model with a finite lifetime of growth sites. <i>Journal of Statistical Physics</i> , 1987, 47, 1-16.	1.2	14
135	Statistische Physik: Langzeitkorrelationen in der Natur: Von Klima, Erbgut und Herzrhythmus: Die Fluktuationsanalyse erlaubt es, Klimamodelle zu testen oder Schlafphasen zu untersuchen. <i>Physik Journal</i> , 2001, 57, 49-54.	0.1	14
136	Diffusion, annihilation, and chemical reactions in complex networks with spatial constraints. <i>Physical Review E</i> , 2012, 86, 046103.	2.1	14
137	Precipitation and River Flow: Long-Term Memory and Predictability of Extreme Events. <i>Geophysical Monograph Series</i> , 2012, , 139-152.	0.1	14
138	Long-Range Memory in Literary Texts: On the Universal Clustering of the Rare Words. <i>PLoS ONE</i> , 2016, 11, e0164658.	2.5	14
139	Percolation I. , 1996, , 59-114.		14
140	Loopless percolation clusters. <i>Physical Review A</i> , 1989, 39, 5470-5473.	2.5	13
141	Conductivity and spin lattice relaxation in disordered ionic conductors. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 1292-1299.	3.1	13
142	Anomalous ion transport in glasses. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 415-425.	2.6	12
143	Multifractal features of random walks and localized vibrational excitations on random fractals: Dependence on the averaging procedure. <i>Physical Review E</i> , 1996, 54, 4596-4602.	2.1	12
144	Setting the tree-ring record straight. <i>Climate Dynamics</i> , 2020, 55, 3017-3024.	3.8	12

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145	On the localization of random walks and vibrational excitations in linear fractal structures. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 202, 371-378.	2.6	11
146	Monte Carlo simulations of frozen metastable states in ordered systems of ultrafine magnetic particles. <i>Physical Review B</i> , 2006, 74, .	3.2	11
147	Fractal measures of diffusion in the presence of random fields. <i>Physical Review A</i> , 1988, 38, 2185-2188.	2.5	10
148	Frequency-Dependent Conductivity. Ionic Conductivity and Memory Effects in Glassy Electrolytes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991, 95, 1002-1006.	0.9	10
149	Vibrations and random walks on random fractals: Anomalous behaviour and multifractality. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1992, 65, 191-211.	0.6	10
150	Anderson localization in a random correlated energy landscape. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 492-496.	2.6	10
151	Percolation transition in the gas-induced conductance of nanograin metal oxide films with defects. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	10
152	A Generalized Diffusion-Limited Aggregation Where Aggregate Sites Have a Finite Radical Time. <i>Journal of the Physical Society of Japan</i> , 1988, 57, 3376-3380.	1.6	9
153	Range of multifractality for random walks on random fractals. <i>Physical Review E</i> , 1993, 47, 2333-2335.	2.1	9
154	Stretched-exponential relaxation: The role of system size. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1323-1329.	0.6	9
155	Clustering of ventricular arrhythmic complexes in heart rhythm. <i>Physical Review E</i> , 2011, 83, 021918.	2.1	9
156	Complexity and Extreme Events in Geosciences: An Overview. <i>Geophysical Monograph Series</i> , 2012, , 1-16.	0.1	9
157	Seasonality Effects on Nonlinear Properties of Hydrometeorological Records. , 2011, , 266-284.		9
158	Nonuniversal transport exponents in quasi-one-dimensional systems with a power-law distribution of conductances. <i>Physical Review B</i> , 1987, 35, 397-399.	3.2	8
159	Localization of electrons, fractons and random walks in random fractals: Novel scaling with the number of configurations. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995, 71, 721-729.	0.6	8
160	A unified model for ion conduction in crystals of $\hat{2}$ - and $\hat{2}^{\hat{3}}$ -alumina structure. <i>Journal of Chemical Physics</i> , 1998, 109, 2316-2324.	3.0	8
161	Random walks on percolation with a topological bias: Decay of the probability density. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 62-66.	2.6	7
162	Diffusion-limited aggregation in which cluster sites have a distribution of reaction times. <i>Physical Review A</i> , 1988, 38, 2099-2102.	2.5	6

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163	Distributions of polymers in disordered structures. <i>Physical Review E</i> , 1995, 52, 6303-6307.	2.1	6
164	Branched polymers in the presence of impurities. <i>Physical Review E</i> , 1996, 54, 1742-1748.	2.1	6
165	Structure of self-avoiding walks on percolation clusters at criticality. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 1357-1371.	0.6	6
166	Optimal path in weak and strong disorder. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 266, 317-321.	2.6	6
167	SCALING IN THE ATMOSPHERE: ON GLOBAL LAWS OF PERSISTENCE AND TESTS OF CLIMATE MODELS. <i>Fractals</i> , 2003, 11, 205-216.	3.7	6
168	Diffusion-driven spreading phenomena: The structure of the hull of the visited territory. <i>Physical Review E</i> , 2004, 69, 031101.	2.1	6
169	On the spreading and localization of risky information in social networks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 386, 439-445.	2.6	6
170	The Statistics of Return Intervals, Maxima, and Centennial Events Under the Influence of Long-Term Correlations. , 2011, , 2-43.		6
171	Detrended Fluctuation Studies of Long-Term Persistence and Multifractality of Precipitation and River Runoff Records. , 2011, , 216-248.		6
172	Atmospheric Persistence Analysis: Novel Approaches and Applications. , 2002, , 170-191.		6
173	Scaling and Memory in Return Loss Intervals: Application to Risk Estimation. , 2006, , 43-51.		5
174	Biased diffusion on random structures. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987, 56, 821-831.	0.6	4
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