List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Loss of Mammographic Tissue Homeostasis in Invasive Lobular and Ductal Breast Carcinomas vs. Benign Lesions. Frontiers in Physiology, 2021, 12, 660883.	1.3	4
2	Emergence of Log-Normal Type Distributions in Avalanche Processes in Living Systems: A Network Model. Frontiers in Applied Mathematics and Statistics, 2021, 6, .	0.7	6
3	Experimental evidence of a phase transition in the multifractal spectra of turbulent temperature fluctuations at a forest canopy top. Journal of Fluid Mechanics, 2020, 896, .	1.4	7
4	Multifractal Desynchronization of the Cardiac Excitable Cell Network During Atrial Fibrillation. II. Modeling. Frontiers in Physiology, 2019, 10, 480.	1.3	1
5	The Role of Nucleosome Positioning in Genome Function and Evolution. , 2018, , 41-79.		2
6	Evidence for DNA Sequence Encoding of an Accessible Nucleosomal Array across Vertebrates. Biophysical Journal, 2018, 114, 2308-2316.	0.2	8
7	A minimal rupture cascade model for living cell plasticity. New Journal of Physics, 2018, 20, 053057.	1.2	7
8	Fractional rheology of muscle precursor cells. Journal of Rheology, 2018, 62, 1347-1362.	1.3	1
9	Developmental and cancer-associated plasticity of DNA replication preferentially targets GC-poor, lowly expressed and late-replicating regions. Nucleic Acids Research, 2018, 46, 10157-10172.	6.5	30
10	Prestressed cells are prone to cytoskeleton failures under localized shear strain: an experimental demonstration on muscle precursor cells. Scientific Reports, 2018, 8, 8602.	1.6	10
11	Multifractal Desynchronization of the Cardiac Excitable Cell Network During Atrial Fibrillation. I. Multifractal Analysis of Clinical Data. Frontiers in Physiology, 2018, 8, 1139.	1.3	3
12	The eukaryotic bell-shaped temporal rate of DNA replication origin firing emanates from a balance between origin activation and passivation. ELife, 2018, 7, .	2.8	14
13	Mammographic evidence of microenvironment changes in tumorous breasts. Medical Physics, 2017, 44, 1324-1336.	1.6	25
14	Dynamical study of \$\$mathbf{Na }_{{varvec{v}}\$ Na v channel excitability under mechanical stress. Biological Cybernetics, 2017, 111, 129-148.	0.6	2
15	Resonant Waveguide Imaging of Living Systems: From Evanescent to Propagative Light. , 2017, , 613-654.		0
16	Multi-scale structural community organisation of the human genome. BMC Bioinformatics, 2017, 18, 209.	1.2	11
17	High-resolution-scanning waveguide microscopy: spatial refractive index and topography quantification. Optics Letters, 2017, 42, 2523.	1.7	3
18	Evidence of selection for an accessible nucleosomal array in human. BMC Genomics, 2016, 17, 526.	1.2	25

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19	Comparative Multifractal Analysis of Dynamic Infrared Thermograms and X-Ray Mammograms Enlightens Changes in the Environment of Malignant Tumors. Frontiers in Physiology, 2016, 7, 336.	1.3	18
20	From elasticity to inelasticity in cancer cell mechanics: A loss of scale-invariance. AIP Conference Proceedings, 2016, , .	0.3	8
21	Combining multifractal analyses of digital mammograms and infrared thermograms to assist in early breast cancer diagnosis. AIP Conference Proceedings, 2016, , .	0.3	11
22	Deciphering DNA replication dynamics in eukaryotic cell populations in relation with their averaged chromatin conformations. Scientific Reports, 2016, 6, 22469.	1.6	9
23	Revealing stiffening and brittling of chronic myelogenous leukemia hematopoietic primary cells through their temporal response to shear stress. Physical Biology, 2016, 13, 03LT01.	0.8	13
24	Genome-wide alterations of the DNA replication program during tumor progression. AIP Conference Proceedings, 2016, , .	0.3	0
25	Passive microrheology of soft materials with atomic force microscopy: A wavelet-based spectral analysis. Applied Physics Letters, 2016, 108, .	1.5	20
26	Tracking in real time the crawling dynamics of adherent living cells with a high resolution surface plasmon microscope. Proceedings of SPIE, 2016, , .	0.8	1
27	Time-lapse scanning surface plasmon microscopy of living adherent cells with a radially polarized beam. Applied Optics, 2016, 55, 1216.	2.1	28
28	Enlightening intracellular complexity of living cells with quantitative phase microscopy. , 2016, , .		3
29	Resonant Waveguide Imaging of Living Systems: From Evanescent to Propagative Light. , 2016, , 1-42.		0
30	Ubiquitous human â€~master' origins of replication are encoded in the DNA sequence via a local enrichment in nucleosome excluding energy barriers. Journal of Physics Condensed Matter, 2015, 27, 064102.	0.7	11
31	SWDreader: A wavelet-based algorithm using spectral phase to characterize spike-wave morphological variation in genetic models of absence epilepsy. Journal of Neuroscience Methods, 2015, 242, 127-140.	1.3	20
32	Embryonic Stem Cell Specific "Master―Replication Origins at the Heart of the Loss of Pluripotency. PLoS Computational Biology, 2015, 11, e1003969.	1.5	22
33	Structural organization of human replication timing domains. FEBS Letters, 2015, 589, 2944-2957.	1.3	28
34	Single Cell Wall Nonlinear Mechanics Revealed by a Multiscale Analysis of AFM Force-Indentation Curves. Biophysical Journal, 2015, 108, 2235-2248.	0.2	32
35	Deciphering the internal complexity of living cells with quantitative phase microscopy: a multiscale approach. Journal of Biomedical Optics, 2015, 20, 096005.	1.4	22
36	The Spatiotemporal Program of DNA Replication Is Associated with Specific Combinations of Chromatin Marks in Human Cells. PLoS Genetics, 2014, 10, e1004282.	1.5	123

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37	Wavelet-based multifractal analysis of dynamic infrared thermograms to assist in early breast cancer diagnosis. Frontiers in Physiology, 2014, 5, 176.	1.3	68
38	Diffraction phase microscopy: retrieving phase contours on living cells with a wavelet-based space-scale analysis. Journal of Biomedical Optics, 2014, 19, 036007.	1.4	25
39	From the chromatin interaction network to the organization of the human genome into replication N/U-domains. New Journal of Physics, 2014, 16, 115014.	1.2	12
40	Large replication skew domains delimit GC-poor gene deserts in human. Computational Biology and Chemistry, 2014, 53, 153-165.	1.1	5
41	A Wavelet-Based Method for Multifractal Analysis of Medical Signals: Application to Dynamic Infrared Thermograms of Breast Cancer. Communications in Computer and Information Science, 2014, , 288-300.	0.4	5
42	Wavelet-Based 3D Reconstruction of Microcalcification Clusters from Two Mammographic Views: New Evidence That Fractal Tumors Are Malignant and Euclidean Tumors Are Benign. PLoS ONE, 2014, 9, e107580.	1.1	31
43	Wavelet-based multifractal analysis of dynamic infrared thermograms and X-ray mammograms to assist in early breast cancer diagnosis. , 2014, , .		0
44	From Simple Bacterial and Archaeal Replicons to Replication N/U-Domains. Journal of Molecular Biology, 2013, 425, 4673-4689.	2.0	32
45	Relating mammalian replication program to large-scale chromatin folding. , 2013, , .		0
46	Multifractal analysis of dynamic infrared imaging of breast cancer. Europhysics Letters, 2013, 104, 68001.	0.7	34
47	Revealing Long-Range Interconnected Hubs in Human Chromatin Interaction Data Using Graph Theory. Physical Review Letters, 2013, 111, 118102.	2.9	52
48	Multiscale analysis of genome-wide replication timing profiles using a wavelet-based signal-processing algorithm. Nature Protocols, 2013, 8, 98-110.	5.5	50
49	Megabase Replication Domains Along the Human Genome: Relation to Chromatin Structure and Genome Organisation. Sub-Cellular Biochemistry, 2013, 61, 57-80.	1.0	15
50	Wavelet-based decomposition of high resolution surface plasmon microscopy V (Z) curves at visible and near infrared wavelengths. Optics Express, 2013, 21, 7456.	1.7	13
51	Guided wave microscopy: mastering the inverse problem. Optics Letters, 2013, 38, 4269.	1.7	9
52	Human Genome Replication Proceeds through Four Chromatin States. PLoS Computational Biology, 2013, 9, e1003233.	1.5	54
53	Epigenetic regulation of the human genome: coherence between promoter activity and large-scale chromatin environment. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2013, 7, 44-62.	1.1	8
54	Evolutionary comparisons reveal a positional switch for spindle pole oscillations in <i>Caenorhabditis</i> embryos. Journal of Cell Biology, 2013, 201, 653-662.	2.3	29

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55	Replication Fork Polarity Gradients Revealed by Megabase-Sized U-Shaped Replication Timing Domains in Human Cell Lines. PLoS Computational Biology, 2012, 8, e1002443.	1.5	70
56	Publisher's Note: Inferring Where and When Replication Initiates from Genome-Wide Replication Timing Data [Phys. Rev. Lett.108, 268101 (2012)]. Physical Review Letters, 2012, 109, .	2.9	0
57	Inferring Where and When Replication Initiates from Genome-Wide Replication Timing Data. Physical Review Letters, 2012, 108, 268101.	2.9	25
58	3D chromatin conformation correlates with replication timing and is conserved in resting cells. Nucleic Acids Research, 2012, 40, 9470-9481.	6.5	76
59	Gene organization inside replication domains in mammalian genomes. Comptes Rendus - Mecanique, 2012, 340, 745-757.	2.1	12
60	DNA structure, nucleosome placement and chromatin remodelling: a perspective. Biochemical Society Transactions, 2012, 40, 335-340.	1.6	35
61	Linking the DNA strand asymmetry to the spatio-temporal replication program. European Physical Journal E, 2012, 35, 92.	0.7	16
62	Linking the DNA strand asymmetry to the spatio-temporal replication program. European Physical Journal E, 2012, 35, 123.	0.7	13
63	A phenomenological theory of Eulerian and Lagrangian velocity fluctuations in turbulent flows. Comptes Rendus Physique, 2012, 13, 899-928.	0.3	42
64	FractalsFractal and WaveletsWavelets : What Can We Learn on Transcription and Replication from Wavelet-Based Multifractal AnalysisMultifractal analysis of DNA SequencesDNA sequence ?. , 2012, , 606-636.		0
65	Mechanics of the IL2RA Gene Activation Revealed by Modeling and Atomic Force Microscopy. PLoS ONE, 2011, 6, e18811.	1.1	7
66	Influence of the genomic sequence on the primary structure of chromatin. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2011, 5, 29-68.	1.1	12
67	<i>In vivo</i> analysis of local wall stiffness at the shoot apical meristem in Arabidopsis using atomic force microscopy. Plant Journal, 2011, 67, 1116-1123.	2.8	186
68	Revisiting polymer statistical physics to account for the presence of long-range-correlated structural disorder in 2D DNA chains. European Physical Journal E, 2011, 34, 119.	0.7	2
69	Multi-scale coding of genomic information: From DNA sequence to genome structure and function. Physics Reports, 2011, 498, 45-188.	10.3	108
70	Functional Coupling between HIV-1 Integrase and the SWI/SNF Chromatin Remodeling Complex for Efficient in vitro Integration into Stable Nucleosomes. PLoS Pathogens, 2011, 7, e1001280.	2.1	57
71	Replication-Associated Mutational Asymmetry in the Human Genome. Molecular Biology and Evolution, 2011, 28, 2327-2337.	3.5	66
72	Evidence for Sequential and Increasing Activation of Replication Origins along Replication Timing Gradients in the Human Genome. PLoS Computational Biology, 2011, 7, e1002322.	1.5	124

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73	CHARACTERIZING COMPLEXITY IN SOLAR MAGNETOGRAM DATA USING A WAVELET-BASED SEGMENTATION METHOD. Astrophysical Journal, 2010, 717, 995-1005.	1.6	27
74	Perinuclear distribution of heterochromatin in developing C. elegans embryos. Chromosome Research, 2010, 18, 873-885.	1.0	21
75	Automated Detection of Coronal Loops Using a Wavelet Transform Modulus Maxima Method. Solar Physics, 2010, 262, 387-397.	1.0	22
76	Wavelet-based method to disentangle transcription- and replication-associated strand asymmetries in mammalian genomes. Applied and Computational Harmonic Analysis, 2010, 28, 150-170.	1.1	22
77	A novel strategy of transcription regulation by intragenic nucleosome ordering. Genome Research, 2010, 20, 59-67.	2.4	64
78	Impact of replication timing on non-CpG and CpG substitution rates in mammalian genomes. Genome Research, 2010, 20, 447-457.	2.4	187
79	Effect of Genomic Long-Range Correlations on DNA Persistence Length: From Theory to Single Molecule Experiments. Journal of Physical Chemistry B, 2010, 114, 5125-5143.	1.2	33
80	Nucleosome positioning by genomic excluding-energy barriers. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22257-22262.	3.3	54
81	Open chromatin encoded in DNA sequence is the signature of â€~master' replication origins in human cells. Nucleic Acids Research, 2009, 37, 6064-6075.	6.5	52
82	Analysis of fine-scale mammalian evolutionary breakpoints provides new insight into their relation to genome organisation. BMC Genomics, 2009, 10, 335.	1.2	58
83	Revisiting the physical processes of vapodeposited thin gold films on chemically modified glass by atomic force and surface plasmon microscopies. Surface Science, 2009, 603, 3307-3320.	0.8	36
84	Evidence for inherent nonlinearity in temporal rainfall. Advances in Water Resources, 2009, 32, 41-48.	1.7	29
85	Towards A New Generation Of Single Molecule High Resolution Sensors. Biophysical Journal, 2009, 96, 29a.	0.2	0
86	Thermodynamics of Intragenic Nucleosome Ordering. Physical Review Letters, 2009, 103, 188103.	2.9	57
87	Generalized wormlike chain model for long-range correlated heteropolymers. Europhysics Letters, 2009, 86, 48001.	0.7	6
88	FractalsFractal and WaveletsWavelets : What Can We Learn on Transcription and Replication from Wavelet-Based Multifractal AnalysisMultifractal analysis of DNA SequencesDNA sequence ?. , 2009, , 3893-3924.		2
89	Phenomenological relation between the Kolmogorov constant and the skewness in turbulence. Springer Proceedings in Physics, 2009, , 719-720.	0.1	0
90	A multifractal formalism for vector-valued random fields based on wavelet analysis: application to turbulent velocity and vorticity 3D numerical data. Stochastic Environmental Research and Risk Assessment, 2008, 22, 421-435.	1.9	16

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91	Spontaneous emergence of sequence-dependent rosettelike folding of chromatin fiber. Physical Review E, 2008, 77, 061923.	0.8	14
92	Universal Intermittent Properties of Particle Trajectories in Highly Turbulent Flows. Physical Review Letters, 2008, 100, 254504.	2.9	145
93	Wavelet-based multifractal analysis. Scholarpedia Journal, 2008, 3, 4103.	0.3	39
94	Estimating intermittency exponent in neutrally stratified atmospheric surface layer flows: A robust framework based on magnitude cumulant and surrogate analyses. Physics of Fluids, 2007, 19, .	1.6	28
95	Bifractality of human DNA strand-asymmetry profiles results from transcription. Physical Review E, 2007, 75, 032902.	0.8	37
96	Probing Persistence in DNA Curvature Properties with Atomic Force Microscopy. Physical Review Letters, 2007, 98, 178101.	2.9	61
97	Experiments Confirm the Influence of Genome Long-Range Correlations on Nucleosome Positioning. Physical Review Letters, 2007, 99, 218103.	2.9	60
98	Human gene organization driven by the coordination of replication and transcription. Genome Research, 2007, 17, 1278-1285.	2.4	147
99	DNA in Chromatin: from Genome-Wide Sequence Analysis to the Modeling of Replication in Mammals. Advances in Chemical Physics, 2007, , 203-252.	0.3	3
100	DNA Replication Timing Data Corroborate <i>In Silico</i> Human Replication Origin Predictions. Physical Review Letters, 2007, 99, 248102.	2.9	39
101	Lagrangian intermittencies in dynamic and static turbulent velocity fields from direct numerical simulations. Journal of Turbulence, 2007, 8, N3.	0.5	6
102	Chromosome territories have a highly nonspherical morphology and nonrandom positioning. Chromosome Research, 2007, 15, 899-916.	1.0	95
103	Chromosome neighborhood composition determines translocation outcomes after exposure to high-dose radiation in primary cells. Chromosome Research, 2007, 15, 1061-1073.	1.0	48
104	Revisiting multifractality of high-resolution temporal rainfall using a wavelet-based formalism. Water Resources Research, 2006, 42, .	1.7	121
105	Unified multifractal description of velocity increments statistics in turbulence: Intermittency and skewness. Physica D: Nonlinear Phenomena, 2006, 218, 77-82.	1.3	62
106	Scaling behavior of high resolution temporal rainfall: New insights from a wavelet-based cumulant analysis. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 348, 335-345.	0.9	35
107	Formation and positioning of nucleosomes: Effect of sequence-dependent long-range correlated structural disorder. European Physical Journal E, 2006, 19, 263-277.	0.7	32
108	Morphological Analysis of H i Features. II. Waveletâ€based Multifractal Formalism. Astrophysical Journal, Supplement Series, 2006, 165, 512-550.	3.0	77

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109	Une aventure transdisciplinaire - À l'interface de la physique et de la biologie : le laboratoire Joliot-Curie de l'ENS de Lyon. , 2006, , 14-16.	0.1	0
110	Thermodynamics of DNA Loops with Long-Range Correlated Structural Disorder. Physical Review Letters, 2005, 95, 068101.	2.9	43
111	Intermittency of Velocity Time Increments in Turbulence. Physical Review Letters, 2005, 95, 064501.	2.9	41
112	From DNA Sequence Analysis to Modeling Replication in the Human Genome. Physical Review Letters, 2005, 94, 248103.	2.9	52
113	Replication-associated strand asymmetries in mammalian genomes: Toward detection of replication origins. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9836-9841.	3.3	133
114	Low Frequency Rhythms in Human DNA Sequences: A Key to the Organization of Gene Location and Orientation?. Physical Review Letters, 2004, 93, 108101.	2.9	36
115	A practical method to experimentally evaluate the Hausdorff dimension: An alternative phase-transition-based methodology. Chaos, 2004, 14, 1004-1017.	1.0	5
116	Transcription-coupled and splicing-coupled strand asymmetries in eukaryotic genomes. Nucleic Acids Research, 2004, 32, 4969-4978.	6.5	73
117	Wavelet Analysis of DNA Bending Profiles reveals Structural Constraints on the Evolution of Genomic Sequences. Journal of Biological Physics, 2004, 30, 33-81.	0.7	30
118	Generalizing the Wavelet-Based Multifractal Formalism to Random Vector Fields: Application to Three-Dimensional Turbulence Velocity and Vorticity Data. Physical Review Letters, 2004, 93, 044501.	2.9	57
119	From scale invariance to deterministic chaos in DNA sequences: towards a deterministic description of gene organization in the human genome. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 270-280.	1.2	11
120	Title is missing!. Journal of Statistical Physics, 2003, 113, 701-717.	0.5	38
121	Three-Dimensional Wavelet-Based Multifractal Method: The Need for Revisiting the Multifractal Description of Turbulence Dissipation Data. Physical Review Letters, 2003, 91, 194501.	2.9	64
122	A wavelet-based method for multifractal image analysis: From theoretical concepts to experimental applications. Advances in Imaging and Electron Physics, 2003, 126, 1-92.	0.1	60
123	Transcription-coupled TA and GC strand asymmetries in the human genome. FEBS Letters, 2003, 555, 579-582.	1.3	65
124	Lagrangian Velocity Statistics in Turbulent Flows: Effects of Dissipation. Physical Review Letters, 2003, 91, 214502.	2.9	81
125	Influence of the sequence on elastic properties of long DNA chains. Physical Review E, 2003, 67, 032901.	0.8	16
126	Wavelet Based Multifractal Formalism: Applications to DNA Sequences, Satellite Images of the Cloud Structure, and Stock Market Data. , 2002, , 26-102.		65

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127	A Wavelet-based method for multifractal analysis of rough surfaces : Applications to high-resolution satellite images of cloud structure. AIP Conference Proceedings, 2002, , .	0.3	2
128	Long-range Correlations between DNA Bending Sites: Relation to the Structure and Dynamics of Nucleosomes. Journal of Molecular Biology, 2002, 316, 903-918.	2.0	99
129	Long Time Correlations in Lagrangian Dynamics: A Key to Intermittency in Turbulence. Physical Review Letters, 2002, 89, 254502.	2.9	105
130	Wavelet-based estimators of scaling behavior. IEEE Transactions on Information Theory, 2002, 48, 2938-2954.	1.5	90
131	Multifractal returns and hierarchical portfolio theory. Quantitative Finance, 2001, 1, 131-148.	0.9	96
132	Intermittency of 1D velocity spatial profiles in turbulence: a magnitude cumulant analysis. European Physical Journal B, 2001, 23, 243-248.	0.6	86
133	Oscillating Viscosity in a Lyotropic Lamellar Phase under Shear Flow. Physical Review Letters, 2001, 86, 1374-1377.	2.9	90
134	Long-Range Correlations in Genomic DNA: A Signature of the Nucleosomal Structure. Physical Review Letters, 2001, 86, 2471-2474.	2.9	127
135	Multifractal returns and hierarchical portfolio theory. Quantitative Finance, 2001, 1, 131-148.	0.9	9
136	WAVELET-BASED MULTIFRACTAL FORMALISM TO ASSIST IN DIAGNOSIS IN DIGITIZED MAMMOGRAMS. Image Analysis and Stereology, 2001, 20, 169.	0.4	76
137	Analysis of random cascades using the wavelet transform: from theoretical concepts to experimental applications. , 2000, 4119, 58.		1
138	A wavelet-based method for multifractal image analysis. I. Methodology and test applications on isotropic and anisotropic random rough surfaces. European Physical Journal B, 2000, 15, 567-600.	0.6	159
139	A wavelet-based method for multifractal image analysis. II. Applications to synthetic multifractal rough surfaces. European Physical Journal B, 2000, 15, 739-764.	0.6	71
140	A wavelet-based method for multifractal image analysis. III. Applications to high-resolution satellite images of cloud structure. European Physical Journal B, 2000, 15, 765-786.	0.6	76
141	The thermodynamics of fractals revisited with wavelets. , 1999, , 339-390.		0
142	Intermittency, Log-Normal Statistics, and Multifractal Cascade Process in High-Resolution Satellite Images of Cloud Structure. Physical Review Letters, 1999, 83, 1255-1258.	2.9	50
143	Detecting vorticity filaments using wavelet analysis: About the statistical contribution of vorticity filaments to intermittency in swirling turbulent flows. European Physical Journal B, 1999, 8, 301-322.	0.6	35
144	Experimental Evidence for Anomalous Scale Dependent Cascading Process in Turbulent Velocity Statistics. Applied and Computational Harmonic Analysis, 1999, 6, 374-381.	1.1	5

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145	Revealing a lognormal cascading process in turbulent velocity statistics with wavelet analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1999, 357, 2415-2438.	1.6	43
146	Oscillating singularities and fractal functions. CRM Proceedings & Lecture Notes, 1999, , 315-329.	0.1	6
147	Thermodynamics of fractal signals based on wavelet analysis: application to fully developed turbulence data and DNA sequences. Physica A: Statistical Mechanics and Its Applications, 1998, 254, 24-45.	1.2	39
148	Towards log-normal statistics in high Reynolds number turbulence. European Physical Journal B, 1998, 1, 129-140.	0.6	60
149	Singularity spectrum of multifractal functions involving oscillating singularities. Journal of Fourier Analysis and Applications, 1998, 4, 159-174.	0.5	57
150	What can we learn with wavelets about DNA sequences?. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 439-448.	1.2	81
151	Nucleotide composition effects on the long-range correlations in human genes. European Physical Journal B, 1998, 1, 259-263.	0.6	37
152	â€Direct―causal cascade in the stock market. European Physical Journal B, 1998, 2, 277-282.	0.6	205
153	Analyzing Chaotic Behavior in a Belousovâ^'Zhabotinskyi Reaction by Using a Global Vector Field Reconstruction. Journal of Physical Chemistry A, 1998, 102, 10265-10273.	1.1	21
154	Random cascades on wavelet dyadic trees. Journal of Mathematical Physics, 1998, 39, 4142-4164.	0.5	153
155	Analysis of Random Cascades Using Space-Scale Correlation Functions. Physical Review Letters, 1998, 80, 708-711.	2.9	66
156	Uncovering a Log-Normal Cascade Process in High Reynolds Number Turbulence from Wavelet Analysis. Fluid Mechanics and Its Applications, 1998, , 215-218.	0.1	0
157	Wavelet Based Multifractal Analysis of Rough Surfaces: Application to Cloud Models and Satellite Data. Physical Review Letters, 1997, 79, 75-78.	2.9	79
158	Dynamical Characterization of Electroless Deposition in the Diffusion-Limited Regime. Fractals, 1997, 05, 75-86.	1.8	9
159	Experimental Analysis of Self-Similarity and Random Cascade Processes: Application to Fully Developed Turbulence Data. Journal De Physique II, 1997, 7, 363-370.	0.9	52
160	Oscillating singularities on cantor sets: A grand-canonical multifractal formalism. Journal of Statistical Physics, 1997, 87, 179-209.	0.5	54
161	Scale Invariance and Beyond: What Can We Learn from Wavelet Analysis ?. , 1997, , 37-51.		0
162	Structure functions in turbulence, in various flow configurations, at Reynolds number between 30 and 5000, using extended self-similarity. Europhysics Letters, 1996, 34, 411-416.	0.7	213

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163	Wavelet based fractal analysis of DNA sequences. Physica D: Nonlinear Phenomena, 1996, 96, 291-320.	1.3	138
164	Statistical analysis of off-lattice diffusion-limited aggregates in channel and sector geometries. Physical Review E, 1996, 53, 6200-6223.	0.8	19
165	Complex Fractal Dimensions Describe the Hierarchical Structure of Diffusion-Limited-Aggregate Clusters. Physical Review Letters, 1996, 76, 251-254.	2.9	79
166	The thermodynamics of fractals revisited with wavelets. Physica A: Statistical Mechanics and Its Applications, 1995, 213, 232-275.	1.2	422
167	Oscillating Singularities in Locally Self-Similar Functions. Physical Review Letters, 1995, 74, 4823-4826.	2.9	42
168	Characterizing Long-Range Correlations in DNA Sequences from Wavelet Analysis. Physical Review Letters, 1995, 74, 3293-3296.	2.9	341
169	<title>Wavelet analysis of DNA sequences</title> . , 1995, , .		1
170	Uncovering a multiplicative process in one-dimensional cuts of diffusion-limited aggregates. Journal of Difference Equations and Applications, 1995, 1, 117-124.	0.7	5
171	Type-II Intermittency in the Presence of Additive and Multiplicative Noise. , 1995, , 99-113.		1
172	Modeling Front Pattern Formation and Intermittent Bursting Phenomena in the Couette Flow Reactor. , 1995, , 517-570.		0
173	Solving the Inverse Fractal Problem from Wavelet Analysis. Europhysics Letters, 1994, 25, 479-484.	0.7	27
174	Structural Analysis of Electroless Deposits in the Diffusion-Limited Regime. Physical Review Letters, 1994, 73, 2998-3001.	2.9	54
175	THE MULTIFRACTAL FORMALISM REVISITED WITH WAVELETS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 245-302.	0.7	508
176	Wavelet Based Structural Analysis of Electroless Deposits in the Diffusion Limited Regime. Materials Research Society Symposia Proceedings, 1994, 367, 43.	0.1	0
177	Experimental evidence for homoclinic chaos in an electrochemical growth process. Physica D: Nonlinear Phenomena, 1993, 62, 170-185.	1.3	43
178	Singularity spectrum of fractal signals from wavelet analysis: Exact results. Journal of Statistical Physics, 1993, 70, 635-674.	0.5	321
179	Homoclinic chaos in chemical systems. Physica D: Nonlinear Phenomena, 1993, 62, 134-169.	1.3	60
180	Multifractal formalism for fractal signals: The structure-function approach versus the wavelet-transform modulus-maxima method. Physical Review E, 1993, 47, 875-884.	0.8	472

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181	BEYOND CLASSICAL MULTIFRACTAL ANALYSIS USING WAVELETS: UNCOVERING A MULTIPLICATIVE PROCESS HIDDEN IN THE GEOMETRICAL COMPLEXITY OF DIFFUSION LIMITED AGGREGATES. Fractals, 1993, 01, 629-649.	1.8	48
182	Statistical mechanics of Laplacian fractals. Physical Review Letters, 1993, 71, 2425-2428.	2.9	8
183	Wavelet Analysis of Fractal Signals Application to Fully Developed Turbulence Data. Fluid Mechanics and Its Applications, 1993, , 153-158.	0.1	4
184	Fibonacci Sequences in Diffusion-Limited Aggregation. NATO ASI Series Series B: Physics, 1993, , 191-202.	0.2	2
185	Optical-diffraction measurement of fractal dimensions and f($\hat{l}\pm$) spectrum. Physical Review A, 1992, 45, 8961-8964.	1.0	6
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