

Chung-Kang Peng

List of Publications by Year in descending order

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206
papers

45,175
citations

8755

75
h-index

2033

205
g-index

210
all docs

210
docs citations

210
times ranked

25211
citing authors

#	ARTICLE	IF	CITATIONS
1	PhysioBank, PhysioToolkit, and PhysioNet. <i>Circulation</i> , 2000, 101, E215-20.	1.6	10,241
2	Mosaic organization of DNA nucleotides. <i>Physical Review E</i> , 1994, 49, 1685-1689.	2.1	3,996
3	Quantification of scaling exponents and crossover phenomena in nonstationary heartbeat time series. <i>Chaos</i> , 1995, 5, 82-87.	2.5	3,180
4	Multiscale Entropy Analysis of Complex Physiologic Time Series. <i>Physical Review Letters</i> , 2002, 89, 068102.	7.8	2,449
5	Multiscale entropy analysis of biological signals. <i>Physical Review E</i> , 2005, 71, 021906.	2.1	1,882
6	Fractal dynamics in physiology: Alterations with disease and aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2466-2472.	7.1	1,731
7	Long-range correlations in nucleotide sequences. <i>Nature</i> , 1992, 356, 168-170.	27.8	1,297
8	Long-range anticorrelations and non-Gaussian behavior of the heartbeat. <i>Physical Review Letters</i> , 1993, 70, 1343-1346.	7.8	918
9	What is physiologic complexity and how does it change with aging and disease?. <i>Neurobiology of Aging</i> , 2002, 23, 23-26.	3.1	729
10	On the trend, detrending, and variability of nonlinear and nonstationary time series. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14889-14894.	7.1	729
11	Fractal Correlation Properties of R-R Interval Dynamics and Mortality in Patients With Depressed Left Ventricular Function After an Acute Myocardial Infarction. <i>Circulation</i> , 2000, 101, 47-53.	1.6	641
12	Statistical properties of the volatility of price fluctuations. <i>Physical Review E</i> , 1999, 60, 1390-1400.	2.1	631
13	Advances in heart rate variability signal analysis: joint position statement by the e-Cardiology ESC Working Group and the European Heart Rhythm Association co-endorsed by the Asia Pacific Heart Rhythm Society. <i>Europace</i> , 2015, 17, 1341-1353.	1.7	589
14	Fractal dynamics of human gait: stability of long-range correlations in stride interval fluctuations. <i>Journal of Applied Physiology</i> , 1996, 80, 1448-1457.	2.5	550
15	Long-range correlation properties of coding and noncoding DNA sequences: GenBank analysis. <i>Physical Review E</i> , 1995, 51, 5084-5091.	2.1	526
16	Scaling behaviour of heartbeat intervals obtained by wavelet-based time-series analysis. <i>Nature</i> , 1996, 383, 323-327.	27.8	477
17	Multiscale entropy analysis of human gait dynamics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 330, 53-60.	2.6	433
18	Predicting Survival in Heart Failure Case and Control Subjects by Use of Fully Automated Methods for Deriving Nonlinear and Conventional Indices of Heart Rate Dynamics. <i>Circulation</i> , 1997, 96, 842-848.	1.6	417

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19	Age-related alterations in the fractal scaling of cardiac interbeat interval dynamics. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1996, 271, R1078-R1084.	1.8	397
20	Cardiac Interbeat Interval Dynamics From Childhood to Senescence. Circulation, 1999, 100, 393-399.	1.6	372
21	Fractal mechanisms and heart rate dynamics. Journal of Electrocardiology, 1995, 28, 59-65.	0.9	362
22	Magnitude and Sign Correlations in Heartbeat Fluctuations. Physical Review Letters, 2001, 86, 1900-1903.	7.8	361
23	Maturation of gait dynamics: stride-to-stride variability and its temporal organization in children. Journal of Applied Physiology, 1999, 86, 1040-1047.	2.5	323
24	Statistical physics and physiology: Monofractal and multifractal approaches. Physica A: Statistical Mechanics and Its Applications, 1999, 270, 309-324.	2.6	323
25	Diurnal and Ultradian Dynamics of Serum Adiponectin in Healthy Men: Comparison with Leptin, Circulating Soluble Leptin Receptor, and Cortisol Patterns. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 2838-2843.	3.6	299
26	Correlations in economic time series. Physica A: Statistical Mechanics and Its Applications, 1997, 245, 437-440.	2.6	292
27	Analysis of complex time series using refined composite multiscale entropy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1369-1374.	2.1	262
28	Fractal analysis of heart rate dynamics as a predictor of mortality in patients with depressed left ventricular function after acute myocardial infarction. American Journal of Cardiology, 1999, 83, 836-839.	1.6	259
29	Linguistic Features of Noncoding DNA Sequences. Physical Review Letters, 1994, 73, 3169-3172.	7.8	251
30	Multiscale Analysis of Heart Rate Dynamics: Entropy and Time Irreversibility Measures. Cardiovascular Engineering (Dordrecht, Netherlands), 2008, 8, 88-93.	1.0	250
31	Finite-size effects on long-range correlations: Implications for analyzing DNA sequences. Physical Review E, 1993, 47, 3730-3733.	2.1	247
32	Quantifying Fractal Dynamics of Human Respiration: Age and Gender Effects. Annals of Biomedical Engineering, 2002, 30, 683-692.	2.5	247
33	An Electrocardiogram-Based Technique to Assess Cardiopulmonary Coupling During Sleep. Sleep, 2005, 28, 1151-1161.	1.1	238
34	Physiological complexity and system adaptability: evidence from postural control dynamics of older adults. Journal of Applied Physiology, 2010, 109, 1786-1791.	2.5	235
35	Broken Asymmetry of the Human Heartbeat: Loss of Time Irreversibility in Aging and Disease. Physical Review Letters, 2005, 95, 198102.	7.8	212
36	Exaggerated heart rate oscillations during two meditation techniques. International Journal of Cardiology, 1999, 70, 101-107.	1.7	204

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37	The pNNx files: re-examining a widely used heart rate variability measure. <i>British Heart Journal</i> , 2002, 88, 378-380.	2.1	204
38	Anomalous fluctuations in the dynamics of complex systems: from DNA and physiology to econophysics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 224, 302-321.	2.6	199
39	Volatility distribution in the S&P500 stock index. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 245, 441-445.	2.6	193
40	When human walking becomes random walking: fractal analysis and modeling of gait rhythm fluctuations. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001, 302, 138-147.	2.6	188
41	Noise and poise: Enhancement of postural complexity in the elderly with a stochastic-resonance-based therapy. <i>Europhysics Letters</i> , 2007, 77, 68008.	2.0	185
42	Heart rate dynamics during three forms of meditation. <i>International Journal of Cardiology</i> , 2004, 95, 19-27.	1.7	184
43	Dynamic Analysis of Heart Rate May Predict Subsequent Ventricular Tachycardia After Myocardial Infarction. <i>American Journal of Cardiology</i> , 1997, 80, 779-783.	1.6	176
44	Correlation approach to identify coding regions in DNA sequences. <i>Biophysical Journal</i> , 1994, 67, 64-70.	0.5	174
45	Complexity of spontaneous BOLD activity in default mode network is correlated with cognitive function in normal male elderly: a multiscale entropy analysis. <i>Neurobiology of Aging</i> , 2013, 34, 428-438.	3.1	166
46	Early hepatitis B virus DNA reduction in hepatitis B e antigen-positive patients with chronic hepatitis B: A randomized international study of entecavir versus adefovir. <i>Hepatology</i> , 2009, 49, 72-79.	7.3	163
47	Magnitude and sign scaling in power-law correlated time series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 323, 19-41.	2.6	160
48	Linguistic Analysis of the Human Heartbeat Using Frequency and Rank Order Statistics. <i>Physical Review Letters</i> , 2003, 90, 108103.	7.8	158
49	Heart rate dynamics before spontaneous onset of ventricular fibrillation in patients with healed myocardial infarcts. <i>American Journal of Cardiology</i> , 1999, 83, 880-884.	1.6	155
50	Statistical mechanics in biology: how ubiquitous are long-range correlations?. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 205, 214-253.	2.6	153
51	Differentiating Obstructive from Central and Complex Sleep Apnea Using an Automated Electrocardiogram-Based Method. <i>Sleep</i> , 2007, 30, 1756-1769.	1.1	153
52	Heart Rate Dynamics in Patients With Stable Angina Pectoris and Utility of Fractal and Complexity Measures. <i>American Journal of Cardiology</i> , 1998, 81, 27-31.	1.6	143
53	Generalized Lévy-walk model for DNA nucleotide sequences. <i>Physical Review E</i> , 1993, 47, 4514-4523.	2.1	142
54	Fractal landscapes and molecular evolution: modeling the myosin heavy chain gene family. <i>Biophysical Journal</i> , 1993, 65, 2673-2679.	0.5	141

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55	Multiscaled randomness: A possible source of 1/fnoise in biology. <i>Physical Review E</i> , 1996, 54, 2154-2157.	2.1	140
56	Analysis of DNA sequences using methods of statistical physics. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998, 249, 430-438.	2.6	140
57	Statistical properties of DNA sequences. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1995, 221, 180-192.	2.6	124
58	ADAPTIVE DATA ANALYSIS OF COMPLEX FLUCTUATIONS IN PHYSIOLOGIC TIME SERIES. <i>Advances in Adaptive Data Analysis</i> , 2009, 01, 61-70.	0.6	124
59	Frailty and the Degradation of Complex Balance Dynamics During a Dual-Task Protocol. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 1304-1311.	3.6	120
60	Do Seasons Have an Influence on the Incidence of Depression? The Use of an Internet Search Engine Query Data as a Proxy of Human Affect. <i>PLoS ONE</i> , 2010, 5, e13728.	2.5	116
61	Nonlinear dynamical analysis of sleep electroencephalography using fractal and entropy approaches. <i>Sleep Medicine Reviews</i> , 2018, 37, 85-93.	8.5	113
62	Fractals in biology and medicine. <i>Chaos, Solitons and Fractals</i> , 1995, 6, 171-201.	5.1	111
63	Directed-polymer and ballistic-deposition growth with correlated noise. <i>Physical Review A</i> , 1991, 44, R2239-R2242.	2.5	107
64	Scaling features of noncoding DNA. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 273, 1-18.	2.6	104
65	Cognitive and neuropsychiatric correlates of EEG dynamic complexity in patients with Alzheimer's disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2013, 47, 52-61.	4.8	104
66	Application of statistical physics to heartbeat diagnosis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 274, 99-110.	2.6	102
67	Systematic analysis of coding and noncoding DNA sequences using methods of statistical linguistics. <i>Physical Review E</i> , 1995, 52, 2939-2950.	2.1	101
68	Association of Internet search trends with suicide death in Taipei City, Taiwan, 2004–2009. <i>Journal of Affective Disorders</i> , 2011, 132, 179-184.	4.1	101
69	Obstructive Sleep Apnea Alters Sleep Stage Transition Dynamics. <i>PLoS ONE</i> , 2010, 5, e11356.	2.5	100
70	Deviations from uniform power law scaling in nonstationary time series. <i>Physical Review E</i> , 1997, 55, 845-849.	2.1	92
71	Multimodal pressure-flow method to assess dynamics of cerebral autoregulation in stroke and hypertension. <i>BioMedical Engineering OnLine</i> , 2004, 3, 39.	2.7	88
72	Hierarchical entropy analysis for biological signals. <i>Journal of Computational and Applied Mathematics</i> , 2011, 236, 728-742.	2.0	87

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73	Gait unsteadiness and fall risk in two affective disorders: a preliminary study. BMC Psychiatry, 2004, 4, 39.	2.6	83
74	Scaling and universality in heart rate variability distributions. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 587-593.	2.6	82
75	Scaling in nature: from DNA through heartbeats to weather. Physica A: Statistical Mechanics and Its Applications, 1999, 273, 46-69.	2.6	79
76	On Holo-Hilbert spectral analysis: a full informational spectral representation for nonlinear and non-stationary data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150206.	3.4	75
77	Revealing the brain's adaptability and the transcranial direct current stimulation facilitating effect in inhibitory control by multiscale entropy. NeuroImage, 2014, 90, 218-234.	4.2	74
78	Multiscale Entropy Analysis of Center-of-Pressure Dynamics in Human Postural Control: Methodological Considerations. Entropy, 2015, 17, 7926-7947.	2.2	74
79	Nonlinear Assessment of Cerebral Autoregulation from Spontaneous Blood Pressure and Cerebral Blood Flow Fluctuations. Cardiovascular Engineering (Dordrecht, Netherlands), 2008, 8, 60-71.	1.0	73
80	Enhancement of sleep stability with Tai Chi exercise in chronic heart failure: Preliminary findings using an ECG-based spectrogram method. Sleep Medicine, 2008, 9, 527-536.	1.6	71
81	Non-equilibrium dynamics as an indispensable characteristic of a healthy biological system. Integrative Psychological and Behavioral Science, 1994, 29, 283-293.	0.3	69
82	Multi-Scale Glycemic Variability: A Link to Gray Matter Atrophy and Cognitive Decline in Type 2 Diabetes. PLoS ONE, 2014, 9, e86284.	2.5	68
83	Relationship between delta power and the electrocardiogram-derived cardiopulmonary spectrogram: possible implications for assessing the effectiveness of sleep. Sleep Medicine, 2014, 15, 125-131.	1.6	67
84	Fractal landscapes in biological systems: Long-range correlations in DNA and interbeat heart intervals. Physica A: Statistical Mechanics and Its Applications, 1992, 191, 1-12.	2.6	66
85	Long-range power-law correlations in condensed matter physics and biophysics. Physica A: Statistical Mechanics and Its Applications, 1993, 200, 4-24.	2.6	65
86	Decreased resting-state brain activity complexity in schizophrenia characterized by both increased regularity and randomness. Human Brain Mapping, 2015, 36, 2174-2186.	3.6	65
87	Multiple-time scales analysis of physiological time series under neural control. Physica A: Statistical Mechanics and Its Applications, 1998, 249, 491-500.	2.6	61
88	Complex dynamics of human red blood cell flickering: Alterations with <i>in vivo</i> aging. Physical Review E, 2008, 78, 020901.	2.1	60
89	A systems biology approach to studying Tai Chi, physiological complexity and healthy aging: Design and rationale of a pragmatic randomized controlled trial. Contemporary Clinical Trials, 2013, 34, 21-34.	1.8	58
90	Complexity-Based Measures Inform Effects of Tai Chi Training on Standing Postural Control: Cross-Sectional and Randomized Trial Studies. PLoS ONE, 2014, 9, e114731.	2.5	58

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91	Nonlinear phase interaction between nonstationary signals: A comparison study of methods based on Hilbert-Huang and Fourier transforms. <i>Physical Review E</i> , 2009, 79, 061924.	2.1	57
92	Long-range fractal correlations in DNA. <i>Physical Review Letters</i> , 1993, 71, 1776-1776.	7.8	53
93	Sleep state instabilities in major depressive disorder: Detection and quantification with electrocardiogram-based cardiopulmonary coupling analysis. <i>Psychophysiology</i> , 2011, 48, 285-291.	2.4	53
94	Information categorization approach to literary authorship disputes. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 329, 473-483.	2.6	49
95	Fractal landscape analysis of DNA walks. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1992, 191, 25-29.	2.6	48
96	The APOE ϵ 4 allele affects complexity and functional connectivity of resting brain activity in healthy adults. <i>Human Brain Mapping</i> , 2014, 35, 3238-3248.	3.6	48
97	Prevalent hypertension and stroke in the Sleep Heart Health Study: association with an ECG-derived spectrographic marker of cardiopulmonary coupling. <i>Sleep</i> , 2009, 32, 897-904.	1.1	45
98	Altered phase interactions between spontaneous blood pressure and flow fluctuations in type 2 diabetes mellitus: Nonlinear assessment of cerebral autoregulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2008, 387, 2279-2292.	2.6	44
99	Suicide and media reporting: a longitudinal and spatial analysis. <i>Social Psychiatry and Psychiatric Epidemiology</i> , 2013, 48, 427-435.	3.1	43
100	Causal decomposition in the mutual causation system. <i>Nature Communications</i> , 2018, 9, 3378.	12.8	43
101	Scaling and universality in animate and inanimate systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996, 231, 20-48.	2.6	42
102	Tai Chi Training may Reduce Dual Task Gait Variability, a Potential Mediator of Fall Risk, in Healthy Older Adults: Cross-Sectional and Randomized Trial Studies. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 332.	2.0	42
103	FRactal Landscapes in Biological Systems. <i>Fractals</i> , 1993, 01, 283-301.	3.7	40
104	Genomic Classification Using an Information-Based Similarity Index: Application to the SARS Coronavirus. <i>Journal of Computational Biology</i> , 2005, 12, 1103-1116.	1.6	39
105	Temporal Associations between Weather and Headache: Analysis by Empirical Mode Decomposition. <i>PLoS ONE</i> , 2011, 6, e14612.	2.5	39
106	Complexity-based measures inform tai chi's impact on standing postural control in older adults with peripheral neuropathy. <i>BMC Complementary and Alternative Medicine</i> , 2013, 13, 87.	3.7	39
107	Multimodal Pressure-Flow Analysis: Application of Hilbert Huang Transform in Cerebral Blood Flow Regulation. <i>Eurasip Journal on Advances in Signal Processing</i> , 2008, 2008, 785243.	1.7	38
108	Impaired sleep quality in fibromyalgia: Detection and quantification with ECG-based cardiopulmonary coupling spectrograms. <i>Sleep Medicine</i> , 2010, 11, 497-498.	1.6	37

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109	Fluctuations and Fractal Noise in Biological Membranes. <i>Journal of Membrane Biology</i> , 2000, 177, 177-185.	2.1	35
110	Probabilistic sleep architecture models in patients with and without sleep apnea. <i>Journal of Sleep Research</i> , 2012, 21, 330-341.	3.2	34
111	Publication analysis on insomnia: how much has been done in the past two decades?. <i>Sleep Medicine</i> , 2015, 16, 820-826.	1.6	34
112	HHT based cardiopulmonary coupling analysis for sleep apnea detection. <i>Sleep Medicine</i> , 2012, 13, 503-509.	1.6	33
113	Multi-scale symbolic entropy analysis provides prognostic prediction in patients receiving extracorporeal life support. <i>Critical Care</i> , 2014, 18, 548.	5.8	32
114	Statistical physics approach to categorize biologic signals: From heart rate dynamics to DNA sequences. <i>Chaos</i> , 2007, 17, 015115.	2.5	31
115	A Nonlinear Dynamic Approach Reveals a Long-Term Stroke Effect on Cerebral Blood Flow Regulation at Multiple Time Scales. <i>PLoS Computational Biology</i> , 2012, 8, e1002601.	3.2	31
116	STATISTICAL AND LINGUISTIC FEATURES OF DNA SEQUENCES. <i>Fractals</i> , 1995, 03, 269-284.	3.7	30
117	Self-Reported Coping Behavior in Health and Disease: Assessment With a Card Sort Game. <i>Behavioral Medicine</i> , 1998, 24, 41-44.	1.9	30
118	Dynamic Cerebral Autoregulation Is an Independent Functional Outcome Predictor of Mild Acute Ischemic Stroke. <i>Stroke</i> , 2018, 49, 2605-2611.	2.0	30
119	Heritability of Abnormalities in Cardiopulmonary Coupling in Sleep Apnea: Use of an Electrocardiogram-based Technique. <i>Sleep</i> , 2010, 33, 643-646.	1.1	29
120	Effects of Age, Sex, Index Admission, and Predominant Polarity on the Seasonality of Acute Admissions For Bipolar Disorder: A Population-Based Study. <i>Chronobiology International</i> , 2013, 30, 478-485.	2.0	29
121	Impact of Short- and Long-term Tai Chi Mind-Body Exercise Training on Cognitive Function in Healthy Adults: Results from a Hybrid Observational Study and Randomized Trial. <i>Global Advances in Health and Medicine</i> , 2015, 4, 38-48.	1.6	28
122	Entropy of Entropy: Measurement of Dynamical Complexity for Biological Systems. <i>Entropy</i> , 2017, 19, 550.	2.2	28
123	Age-Related Alterations in Electroencephalography Connectivity and Network Topology During n-Back Working Memory Task. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 484.	2.0	28
124	The association of physical activity to neural adaptability during visuo-spatial processing in healthy elderly adults: A multiscale entropy analysis. <i>Brain and Cognition</i> , 2014, 92, 73-83.	1.8	27
125	ECC-derived cardiopulmonary analysis of pediatric sleep-disordered breathing. <i>Sleep Medicine</i> , 2011, 12, 384-389.	1.6	26
126	Cardiac Autonomic Alteration and Metabolic Syndrome: An Ambulatory ECG-based Study in A General Population. <i>Scientific Reports</i> , 2017, 7, 44363.	3.3	26

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127	Effects of slow and regular breathing exercise on cardiopulmonary coupling and blood pressure. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 327-341.	2.8	26
128	A Strategy to Reduce Bias of Entropy Estimates in Resting-State fMRI Signals. <i>Frontiers in Neuroscience</i> , 2018, 12, 398.	2.8	26
129	Measuring time series based on multiscale dispersion Lempelâ€Ziv complexity and dispersion entropy plane. <i>Chaos, Solitons and Fractals</i> , 2020, 137, 109868.	5.1	26
130	Entropy-based method for COP data analysis. <i>Theoretical Issues in Ergonomics Science</i> , 2013, 14, 227-246.	1.8	25
131	Automated Detection of Paroxysmal Atrial Fibrillation Using an Information-Based Similarity Approach. <i>Entropy</i> , 2017, 19, 677.	2.2	25
132	Frequency and amplitude modulation of resting-state fMRI signals and their functional relevance in normal aging. <i>Neurobiology of Aging</i> , 2018, 70, 59-69.	3.1	25
133	Investigating the interaction between heart rate variability and sleep EEG using nonlinear algorithms. <i>Journal of Neuroscience Methods</i> , 2013, 219, 233-239.	2.5	24
134	Heart rhythm complexity impairment in patients undergoing peritoneal dialysis. <i>Scientific Reports</i> , 2016, 6, 28202.	3.3	24
135	Reference values of heart rate variability. <i>Heart Rhythm</i> , 2017, 14, 302-303.	0.7	24
136	Functional brain lateralization in schizophrenia based on the variability of resting-state fMRI signal. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2018, 86, 114-121.	4.8	24
137	Costa, Goldberger, and Peng Reply:. <i>Physical Review Letters</i> , 2004, 92, .	7.8	23
138	Usefulness of heart rhythm complexity in heart failure detection and diagnosis. <i>Scientific Reports</i> , 2020, 10, 14916.	3.3	23
139	Electrocardiogram-based sleep analysis for sleep apnea screening and diagnosis. <i>Sleep and Breathing</i> , 2020, 24, 231-240.	1.7	22
140	Mantegna et al.Reply:. <i>Physical Review Letters</i> , 1996, 76, 1979-1981.	7.8	21
141	Nonlinear Pressure-Flow Relationship Is Able to Detect Asymmetry of Brain Blood Circulation Associated with Midline Shift. <i>Journal of Neurotrauma</i> , 2009, 26, 227-233.	3.4	21
142	Generating signals with multiscale time irreversibility: The asymmetric weierstrass function. <i>Complexity</i> , 2011, 16, 29-38.	1.6	21
143	Applications of dynamical complexity theory in traditional Chinese medicine. <i>Frontiers of Medicine</i> , 2014, 8, 279-284.	3.4	21
144	Novel MRIâ€compatible tactile stimulator for cortical mapping of foot sole pressure stimuli with fMRI. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1194-1199.	3.0	20

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145	Reversible heart rhythm complexity impairment in patients with primary aldosteronism. Scientific Reports, 2015, 5, 11249.	3.3	20
146	Outlier-resilient complexity analysis of heartbeat dynamics. Scientific Reports, 2015, 5, 8836.	3.3	20
147	Can Tai Chi training impact fractal stride time dynamics, an index of gait health, in older adults? Cross-sectional and randomized trial studies. PLoS ONE, 2017, 12, e0186212.	2.5	20
148	Econophysics: can statistical physics contribute to the science of economics?. Computer Physics Communications, 1999, 121-122, 145-152.	7.5	19
149	Posturo-respiratory synchronization: Effects of aging and stroke. Gait and Posture, 2012, 36, 254-259.	1.4	19
150	Development of a new approach to quantifying stepping stability using ensemble empirical mode decomposition. Gait and Posture, 2014, 39, 495-500.	1.4	19
151	A Higher Proportion of Metabolic Syndrome in Chinese Subjects with Sleep-Disordered Breathing: A Case-Control Study Based on Electrocardiogram-Derived Sleep Analysis. PLoS ONE, 2017, 12, e0169394.	2.5	19
152	Ambulatory Blood Pressure Monitoring in Chinese Patients with Obstructive Sleep Apnea. Journal of Clinical Sleep Medicine, 2017, 13, 433-439.	2.6	18
153	Clustering Heart Rate Dynamics Is Associated with β -Adrenergic Receptor Polymorphisms: Analysis by Information-Based Similarity Index. PLoS ONE, 2011, 6, e19232.	2.5	18
154	Assessing severity of obstructive sleep apnea by fractal dimension sequence analysis of sleep EEG. Physica A: Statistical Mechanics and Its Applications, 2009, 388, 4407-4414.	2.6	17
155	Algebraically decaying noise in a system of particles with hard-core interactions. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 401-405.	2.6	16
156	Deterministic diffusion generated by a chaotic map. Physical Review A, 1991, 43, 6564-6571.	2.5	16
157	Complexity of cardiac signals for predicting changes in alpha-waves after stress in patients undergoing cardiac catheterization. Scientific Reports, 2015, 5, 13315.	3.3	16
158	A new method to determine a fractal dimension of non-stationary biological time-series data. Computers in Biology and Medicine, 2000, 30, 237-245.	7.0	15
159	Serial heart rhythm complexity changes in patients with anterior wall ST segment elevation myocardial infarction. Scientific Reports, 2017, 7, 43507.	3.3	15
160	Heart Rhythm Complexity Impairment in Patients with Pulmonary Hypertension. Scientific Reports, 2019, 9, 10710.	3.3	15
161	Analysis of economic growth fluctuations based on EEMD and causal decomposition. Physica A: Statistical Mechanics and Its Applications, 2020, 553, 124661.	2.6	15
162	The relationship between aminoterminal propeptide of type III procollagen and heart rate variability parameters in heart failure patients: a potential serum marker to evaluate cardiac autonomic control and sudden cardiac death. Clinical Chemistry and Laboratory Medicine, 2010, 48, 1821-7.	2.3	14

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163	Complexity-Based Measures of Heart Rate Dynamics in Older Adults Following Long- and Short-Term Tai Chi Training: Cross-sectional and Randomized Trial Studies. <i>Scientific Reports</i> , 2019, 9, 7500.	3.3	14
164	The Effects of Tai Chi on Sleep Quality in Chinese American Patients With Major Depressive Disorder: A Pilot Study. <i>Behavioral Sleep Medicine</i> , 2018, 16, 398-411.	2.1	13
165	SCALING AND UNIVERSALITY IN LIVING SYSTEMS. <i>Fractals</i> , 1996, 04, 427-451.	3.7	12
166	Dynamic Cerebral Autoregulation Assessment Using Extracranial Internal Carotid Artery Doppler Ultrasonography. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1307-1313.	1.5	12
167	On the Variability of Heart Rate Variability—Evidence from Prospective Study of Healthy Young College Students. <i>Entropy</i> , 2020, 22, 1302.	2.2	12
168	Randomness versus deterministic chaos: Effect on invasion percolation clusters. <i>Physical Review A</i> , 1990, 42, 4537-4542.	2.5	11
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