

Ken Kiyono

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

1,471
citations

21
h-index

35
g-index

121
ext. papers

1,830
ext. citations

3
avg. IF

4.78
L-index

#	Paper	IF	Citations
98	Universal scaling law in human behavioral organization. <i>Physical Review Letters</i> , 2007 , 99, 138103	7.4	102
97	Critical scale invariance in a healthy human heart rate. <i>Physical Review Letters</i> , 2004 , 93, 178103	7.4	88
96	Phase transition in a healthy human heart rate. <i>Physical Review Letters</i> , 2005 , 95, 058101	7.4	82
95	Criticality and phase transition in stock-price fluctuations. <i>Physical Review Letters</i> , 2006 , 96, 068701	7.4	78
94	Non-Gaussian heart rate as an independent predictor of mortality in patients with chronic heart failure. <i>Heart Rhythm</i> , 2008 , 5, 261-8	6.7	74
93	Universal and individual characteristics of postural sway during quiet standing in healthy young adults. <i>Physiological Reports</i> , 2015 , 3, e12329	2.6	57
92	Modeling human postural sway using an intermittent control and hemodynamic perturbations. <i>Mathematical Biosciences</i> , 2013 , 245, 86-95	3.9	55
91	Electroencephalograms during Mental Arithmetic Task Performance. <i>Data</i> , 2019 , 4, 14	2.3	54
90	Establishing a direct connection between detrended fluctuation analysis and Fourier analysis. <i>Physical Review E</i> , 2015 , 92, 042925	2.4	41
89	Multiscale Analysis of Intensive Longitudinal Biomedical Signals and Its Clinical Applications. <i>Proceedings of the IEEE</i> , 2016 , 104, 242-261	14.3	38
88	Estimator of a non-Gaussian parameter in multiplicative log-normal models. <i>Physical Review E</i> , 2007 , 76, 041113	2.4	37
87	Increased non-gaussianity of heart rate variability predicts cardiac mortality after an acute myocardial infarction. <i>Frontiers in Physiology</i> , 2011 , 2, 65	4.6	36
86	Multiscale probability density function analysis: non-Gaussian and scale-invariant fluctuations of healthy human heart rate. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 95-102	5	33
85	Simulation of a Dripping Faucet. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 1185-1196	1.5	32
84	Intermittent Feedback-Control Strategy for Stabilizing Inverted Pendulum on Manually Controlled Cart as Analogy to Human Stick Balancing. <i>Frontiers in Computational Neuroscience</i> , 2016 , 10, 34	3.5	31
83	Long-range negative correlation of glucose dynamics in humans and its breakdown in diabetes mellitus. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 291, R1638-43	3.2	29
82	Detrending moving average algorithm: Frequency response and scaling performances. <i>Physical Review E</i> , 2016 , 93, 063309	2.4	25

81	Long-range Correlated Glucose Fluctuations in Diabetes. <i>Methods of Information in Medicine</i> , 2007 , 46, 222-226	1.5	25
80	Dripping Faucet Dynamics by an Improved Mass-Spring Model. <i>Journal of the Physical Society of Japan</i> , 1999 , 68, 3259-3270	1.5	24
79	Multiscale Entropy of the Heart Rate Variability for the Prediction of an Ischemic Stroke in Patients with Permanent Atrial Fibrillation. <i>PLoS ONE</i> , 2015 , 10, e0137144	3.7	23
78	The effect of nocturnal blue light exposure from light-emitting diodes on wakefulness and energy metabolism the following morning. <i>Environmental Health and Preventive Medicine</i> , 2014 , 19, 354-61	4.2	22
77	Theoretical foundation of detrending methods for fluctuation analysis such as detrended fluctuation analysis and detrending moving average. <i>Physical Review E</i> , 2019 , 99, 033305	2.4	21
76	Mortality Prediction in Severe Congestive Heart Failure Patients with Multifractal Point-Process Modeling of Heartbeat Dynamics. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2345-2354	5	21
75	Non-gaussianity of low frequency heart rate variability and sympathetic activation: lack of increases in multiple system atrophy and Parkinson disease. <i>Frontiers in Physiology</i> , 2012 , 3, 34	4.6	21
74	Unique very low-frequency heart rate variability during deep sleep in humans. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 28-34	5	21
73	Detrended Fluctuation, Coherence, and Spectral Power Analysis of Activation Rearrangement in EEG Dynamics During Cognitive Workload. <i>Frontiers in Human Neuroscience</i> , 2019 , 13, 270	3.3	19
72	Effect of skipping breakfast for 6 days on energy metabolism and diurnal rhythm of blood glucose in young healthy Japanese males. <i>American Journal of Clinical Nutrition</i> , 2019 , 110, 41-52	7	18
71	Time and frequency domain characteristics of detrending-operation-based scaling analysis: Exact DFA and DMA frequency responses. <i>Physical Review E</i> , 2016 , 94, 012111	2.4	17
70	The lack of long-range negative correlations in glucose dynamics is associated with worse glucose control in patients with diabetes mellitus. <i>Metabolism: Clinical and Experimental</i> , 2012 , 61, 1041-50	12.7	17
69	Prognostic Importance of Novel Oxygen Desaturation Metrics in Patients With Heart Failure and Central Sleep Apnea. <i>Journal of Cardiac Failure</i> , 2017 , 23, 131-137	3.3	17
68	An intermittent control model of flexible human gait using a stable manifold of saddle-type unstable limit cycle dynamics. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140958	4.1	17
67	Nonlinear filtering properties of detrended fluctuation analysis. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 462, 807-815	3.3	17
66	Fast algorithm for scaling analysis with higher-order detrending moving average method. <i>Physical Review E</i> , 2016 , 93, 053304	2.4	16
65	Blunted cyclic variation of heart rate predicts mortality risk in post-myocardial infarction, end-stage renal disease, and chronic heart failure patients. <i>Europace</i> , 2017 , 19, 1392-1400	3.9	15
64	On the recurrence time of earthquakes: insight from Vrancea (Romania) intermediate-depth events. <i>Geophysical Journal International</i> , 2008 , 172, 395-404	2.6	15

63	Log-amplitude statistics of intermittent and non-Gaussian time series. <i>Physical Review E</i> , 2009 , 79, 0311294	2.4	14
62	Increase in random component of heart rate variability coinciding with developmental and degenerative stages of life. <i>Physiological Measurement</i> , 2018 , 39, 054004	2.9	13
61	Autonomic Imbalance Induced Breakdown of Long-range Dependence in Healthy Heart Rate. <i>Methods of Information in Medicine</i> , 2007 , 46, 174-178	1.5	12
60	Inappropriate implantable cardioverter defibrillator shocks-incidence, effect, and implications for driver licensing. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2017 , 49, 271-280	2.4	11
59	Multiscale wavelet p-leader based heart rate variability analysis for survival probability assessment in CHF patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2809-12	0.9	11
58	Dynamic Determinants of the Uncontrolled Manifold during Human Quiet Stance. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 618	3.3	11
57	Wavelet p-Leader Non Gaussian Multiscale Expansions for Heart Rate Variability Analysis in Congestive Heart Failure Patients. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 80-88	5	11
56	Association between breakfast skipping and postprandial hyperglycaemia after lunch in healthy young individuals. <i>British Journal of Nutrition</i> , 2019 , 122, 431-440	3.6	10
55	Sodium balance, circadian BP rhythm, heart rate variability, and intrarenal renin-angiotensin-aldosterone and dopaminergic systems in acute phase of ARB therapy. <i>Physiological Reports</i> , 2017 , 5, e13309	2.6	9
54	Reinforcement learning for stabilizing an inverted pendulum naturally leads to intermittent feedback control as in human quiet standing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 37-40	0.9	8
53	Log-amplitude statistics for Beck-Cohen superstatistics. <i>Physical Review E</i> , 2013 , 87, 052104	2.4	8
52	Picture of the low-dimensional structure in chaotic dripping faucets. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 320, 47-52	2.3	8
51	Association between inflammation and skeletal muscle proteolysis, skeletal mass and strength in elderly heart failure patients and their prognostic implications. <i>BMC Cardiovascular Disorders</i> , 2020 , 20, 228	2.3	6
50	Infants Show Physiological Responses Specific to Parental Hugs. <i>IScience</i> , 2020 , 23, 100996	6.1	6
49	Net clinical benefit of adding aspirin to warfarin in patients with atrial fibrillation: Insights from the J-RHYTHM Registry. <i>International Journal of Cardiology</i> , 2016 , 212, 311-7	3.2	6
48	Non-actively controlled double-inverted-pendulum-like dynamics can minimize center of mass acceleration during human quiet standing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1432-5	0.9	6
47	Increased heteroscedasticity of heart rate in fatal heart failure. <i>Europhysics Letters</i> , 2008 , 82, 28005	1.6	6
46	Association between PM2.5 exposure and heart rate variability for the patients with cardiac problems in Japan. <i>Air Quality, Atmosphere and Health</i> , 2020 , 13, 339-347	5.6	5

45	Theory and applications of detrending-operation-based fractal-scaling analysis 2017 ,		5
44	Postural flexibility during quiet standing in healthy elderly and patients with Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016</i> , 2016, 29-32	0.9	5
43	Heart Rate Variability (HRV) and Sympathetic Nerve Activity 2017 , 147-161		4
42	Lack of negative correlation in glucose dynamics by nonexercise activity thermogenesis restriction in healthy adults. <i>Medicine and Science in Sports and Exercise, 2013</i> , 45, 60-6	1.2	4
41	Generalized theory for detrending moving-average cross-correlation analysis: A practical guide. <i>Chaos, Solitons and Fractals: X, 2019</i> , 3, 100022	3	4
40	Comparison among random forest, logistic regression, and existing clinical risk scores for predicting outcomes in patients with atrial fibrillation: A report from the J-RHYTHM registry. <i>Clinical Cardiology, 2021</i> , 44, 1305-1315	3.3	4
39	Fast algorithm of long-range cross-correlation analysis using Savitzky-Golay detrending filter and its application to biosignal analysis 2017 ,		3
38	Bifurcations Induced by Periodic Forcing and Taming Chaos in Dripping Faucets. <i>Journal of the Physical Society of Japan, 2002</i> , 71, 49-55	1.5	3
37	Beat-to-beat T-wave amplitude variability in the risk stratification of right ventricular outflow tract-premature ventricular complex patients. <i>Europace, 2016</i> , 18, 138-45	3.9	2
36	Evaluation of Sleep Quality in a Disaster Evacuee Environment. <i>International Journal of Environmental Research and Public Health, 2020</i> , 17,	4.6	2
35	Scattering Transform of Heart Rate Variability for the Prediction of Ischemic Stroke in Patients with Atrial Fibrillation. <i>Methods of Information in Medicine, 2018</i> , 57, 141-145	1.5	2
34	Heart Rate Variability and Cardiac Diseases 2017 , 163-178		2
33	Changes in the Hurst Exponent of Heart Rate Variability during Physical Activity. <i>AIP Conference Proceedings, 2005</i> ,	0	2
32	A Theoretical Study on a Computational Algorithm for Human Posture Estimation Based on Motion Capture of a Small Number of Markers. <i>Advanced Biomedical Engineering, 2013</i> , 2, 107-116	0.7	2
31	C. elegans episodic swimming is driven by multifractal kinetics. <i>Scientific Reports, 2020</i> , 10, 14775	4.9	2
30	Skipping Breakfast for 6 Days Delayed the Circadian Rhythm of the Body Temperature without Altering Clock Gene Expression in Human Leukocytes. <i>Nutrients, 2020</i> , 12,	6.7	2
29	Factors Related to Personal Health Data Sharing: Data Usefulness, Sensitivity and Anonymity. <i>Studies in Health Technology and Informatics, 2021</i> , 281, 1051-1055	0.5	2
28	L/T-type calcium channel blocker reduces non-Gaussianity of heart rate variability in chronic kidney disease patients under preceding treatment with ARB. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System, 2016</i> , 17, 1470320316643905	3	2

27	Non-contact monitoring of heart rate variability using medical radar for the evaluation of dynamic changes in autonomic nervous activity during a head-up tilt test. <i>Journal of Medical Engineering and Technology</i> , 2019 , 43, 411-417	1.8	2
26	The presence of late potentials after percutaneous coronary intervention for the treatment of acute coronary syndrome as a predictor for future significant cardiac events resulting in re-hospitalization. <i>Journal of Electrocardiology</i> , 2019 , 53, 71-78	1.4	2
25	Relation Between Autonomic Nervous Activity after Pulmonary Vein Isolation and Recurrence in Paroxysmal Atrial Fibrillation Patients. <i>Tokai Journal of Experimental and Clinical Medicine</i> , 2018 , 43, 153-160	1.4	2
24	Analysis of the Relationship between Amplitude Modulation of Low Frequency Heart Rate Variability and Blood Pressure Variability. <i>Advanced Biomedical Engineering</i> , 2019 , 8, 78-84	0.7	1
23	The angiotensin II type 1 receptor blocker azilsartan can overwhelm the sympathetic nerve activation stimulated by coadministration of calcium channel blockers. <i>JRAAS - Journal of the Renin-Angiotensin-Aldosterone System</i> , 2019 , 20, 1470320319839525	3	1
22	Stability and Flexibility During Human Motor Control. <i>Advances in Cognitive Neurodynamics</i> , 2016 , 67-73		1
21	Intermittent appearances of saddle-type hyperbolic dynamics during human stick balancing on a manually controlled cart. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015-2015-2500-3</i>	0.9	1
20	Point-process high-resolution representations of heartbeat dynamics for multiscale analysis: A CHF survivor prediction study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015-2015-1951-4</i>	0.9	1
19	Log-amplitude statistics of non-Gaussian fluctuations. <i>Journal of Physics: Conference Series</i> , 2010 , 221, 012010	0.3	1
18	Multiscale Fluctuation Analysis Revisited. <i>AIP Conference Proceedings</i> , 2007 ,	0	1
17	Statistical physics of human heart rate in health and disease. <i>Understanding Complex Systems</i> , 2009 , 139-154	1.4	1
16	Assessment of long-range cross-correlations in cardiorespiratory and cardiovascular interactions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200249		1
15	C. elegans episodic swimming is driven by multifractal kinetics		1
14	Long-range correlations in amplitude variability of HF and LF components of heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2016, 2016, 6218-6221</i>	0.9	1
13	Safety and feasibility of a telemonitoring-guided exercise program in patients receiving cardiac resynchronization therapy. <i>Annals of Noninvasive Electrocardiology</i> , 2021 , e12926	1.5	1
12	Prolonged Autonomic Fluctuation Derived from Parasympathetic Hypertonia after Carotid Endarterectomy but not Stenting. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2019 , 28, 10-20	2.8	0
11	Association between Multiscale Entropy Characteristics of Heart Rate Variability and Ischemic Stroke Risk in Patients with Permanent Atrial Fibrillation. <i>Entropy</i> , 2017 , 19, 672	2.8	0
10	Clinical phenotypes of patients with non-valvular atrial fibrillation as defined by a cluster analysis: A report from the J-RHYTHM registry. <i>IJC Heart and Vasculature</i> , 2021 , 37, 100885	2.4	0

9	Detection of oriented fractal scaling components in anisotropic two-dimensional trajectories. <i>Scientific Reports</i> , 2020 , 10, 21892	4.9	o
8	A Model of Gait Cycle Variability During Human Walking. <i>Advances in Cognitive Neurodynamics</i> , 2016 , 79-84		o
7	An Acoustic Way to Support Japanese Children's Effective English Learning in School Classrooms. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6062	2.6	o
6	A Decision Tree-Based Survival Analysis of Patients with a History of Inappropriate Implantable Cardioverter-Defibrillator Therapy. <i>International Heart Journal</i> , 2019 , 60, 318-326	1.8	o
5	Multiscale properties of instantaneous parasympathetic activity in severe congestive heart failure: A survivor vs non-survivor study. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3761-3764	0.9	
4	Asymmetric intermittency observed in human heart rate dynamics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7743-6	0.9	
3	?????????????????????????????. <i>Journal of the Japan Society for Precision Engineering</i> , 2011 , 77, 153-157	0.1	
2	Automatic Classification of Screen Gaze and Dialogue in Doctor-Patient-Computer Interactions: Computational Ethnography Algorithm Development and Validation. <i>Journal of Medical Internet Research</i> , 2021 , 23, e25218	7.6	
1	Cross-correlated fractal components of H-wave amplitude fluctuations in medial gastrocnemius and soleus muscles. <i>Neuroscience Letters</i> , 2021 , 765, 136264	3.3	