

CITATION REPORT

List of articles citing

What is physiologic complexity and how does it change with aging and disease?

DOI: 10.1016/s0197-4580(01)00266-4
Neurobiology of Aging, 2002, 23, 23-6.

Source: <https://exaly.com/paper-pdf/34278280/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
669	Multiscale entropy analysis of complex physiologic time series. 2002 , 89, 068102		1860
668	Multiscale entropy to distinguish physiologic and synthetic RR time series.		93
667	Complexity in aging and disease: response to commentaries. <i>Neurobiology of Aging</i> , 2002 , 23, 27-9	5.6	41
666	Practical applications of chaos theory to the modulation of human ageing: nature prefers chaos to regularity. 2003 , 4, 75-90		59
665	Multiscale entropy analysis of complex heart rate dynamics: discrimination of age and heart failure effects. 2003 ,		14
664	Linguistic analysis of the human heartbeat using frequency and rank order statistics. 2003 , 90, 108103		135
663	Aging and the time and frequency structure of force output variability. 2003 , 94, 903-12		225
662	[Stress, adaptation, and self-organization: balancing processes facilitate health and survival]. 2003 , 10, 330-41		20
661	Evaluating age-related loss of nonlinearity degree in short-term heartbeat series by optimum modeling dimension. 2004 , 337, 149-156		6
660	Does fractality in heart rate variability indicate the development of fetal neural processes?. 2004 , 331, 225-230		11
659	Complex systems and the technology of variability analysis. 2004 , 8, R367-84		266
658	EEG dynamics in patients with Alzheimer's disease. 2004 , 115, 1490-505		850
657	Allostatic load and health disparities: a theoretical orientation. 2005 , 28, 306-15		95
656	Age-related differences in head and trunk coordination during walking. 2005 , 24, 574-87		60
655	The effect of hormone replacement therapy cessation on heart rate variability in postmenopausal women. 2005 , 15, 411-3		4
654	Fractal characterisation of boundary irregularity in skin pigmented lesions. 2005 , 43, 436-42		23
653	Chemical activation of pre-Bötzinger complex in vivo reduces respiratory network complexity. 2005 , 288, R1237-47		14

652	Multiscale multifractality analysis of a 12-lead electrocardiogram. 2005 , 71, 062902		24
651	SOME CASES OF CROSSOVER BEHAVIOR IN HEART INTERBEAT AND ELECTROSEISMIC TIME SERIES. 2005 , 13, 253-263		25
650	Multiscale entropy analysis of biological signals. 2005 , 71, 021906		1376
649	Wavelet transform shows age-related changes of heart rate variability within independent frequency components. 2005 , 123, 94-100		30
648	Molecular endocrinology and physiology of the aging central nervous system. 2005 , 26, 203-50		95
647	Discrete bandwidth visual feedback increases structure of output as compared to continuous visual feedback in isometric force control tasks. 2006 , 21, 1042-50		6
646	The responses of growing pigs to a chronic-intermittent stress treatment. 2006 , 89, 670-80		40
645	Age and cholinergic effects on hemodynamics and functional coherence of human hippocampus. <i>Neurobiology of Aging</i> , 2006 , 27, 1395-404	5.6	89
644	Age and ethnicity differences in short-term heart-rate variability. 2006 , 68, 421-6		55
643	Prenatal RR fluctuations dynamics: detecting fetal short-range fractal correlations. 2006 , 26, 1241-7		6
642	Measuring randomness by leave-one-out prediction error. Analysis of EEG after painful stimulation. 2006 , 365, 491-498		5
641	Deterministic center of pressure patterns characterize postural instability in Parkinson's disease. 2006 , 168, 357-67		154
640	Research progress in nonlinear analysis of heart electric activities. 2006 , 51, 385-393		23
639	Oxygen saturation regularity analysis in the diagnosis of obstructive sleep apnea. 2006 , 37, 111-8		40
638	Heart rate variability and infection: diagnosis, prognosis, and prediction. 2006 , 21, 286-9		6
637	Comparison of RR-interval scaling exponents derived from long and short segments at different wake periods. 2006 , 27, N19-25		9
636	Non-linear dynamic analysis of the cardiac rhythm during transient myocardial ischemia. 2006 , 51, 178-81		6
635	Analysis of electroencephalograms in Alzheimer's disease patients with multiscale entropy. 2006 , 27, 1091-106		170

634	Dependence of heart rate variability on heart period in disease and aging. 2006 , 27, 989-98	19
633	ANALYSIS OF HEART RATE FLUCTUATION BASED ON WAVELET ENTROPY. 2007 , 07, L135-L142	3
632	MULTISCALE ENTROPY ANALYSIS OF EEG FROM PATIENTS UNDER DIFFERENT PATHOLOGICAL CONDITIONS. 2007 , 15, 399-404	87
631	Multiscale regularity analysis of the Heart Rate Variability: stratification of cardiac death risk. 2007 , 2007, 5947-50	7
630	Heart Rate Variability Complexity in the Aging Process. 2007 , 8, 287-296	5
629	Scaling patterns of heart rate variability data. 2007 , 28, 721-30	16
628	Salt in the vein, good for the brain. 2007 , 35, 659-60	
627	To be or not to be (in the intensive care unit)--is that a question?. 2007 , 35, 647-8	
626	Oxidative need and oxidative capacity following traumatic brain injury. 2007 , 35, 663-4	5
625	Nurse-physician collaboration in intensive care units. 2007 , 35, 641-2	14
624	Antibiotic therapy for ventilator-associated pneumonia: de-escalation in the real world. 2007 , 35, 632-3	12
623	Nonuse of statins--a new risk factor for infectious death in cardiovascular patients?. 2007 , 35, 631-2	4
622	Nitric oxide-based therapies in sickle cell disease: the evidence continues to mount. 2007 , 35, 654-5	2
621	Prevention of ventilator-associated pneumonia: do not forget to disinfect the mouth. 2007 , 35, 668-9	1
620	Sic transit acetylcysteine?. 2007 , 35, 644-5	
619	Improving the reliability of healthcare systems' responsiveness to the needs of acutely ill patients. 2007 , 35, 637-9	2
618	Glucose-6-phosphate dehydrogenase and sepsis: the jury is still out. 2007 , 35, 655-6	1
617	Critically appraise before you believe: the quality of meta-analyses in critical care medicine. 2007 , 35, 666-7	

616	Viral pneumonia and respiratory sepsis: association, causation, or it depends?. 2007 , 35, 639-40	2
615	Alveolar hemostasis in patients with species-specific bacterial-mediated ventilator-associated pneumonia. 2007 , 35, 652-3	20
614	Alcohol and the intensive care unit: it's not just an antiseptic. 2007 , 35, 627-8	5
613	Is inter-alpha inhibitor important in sepsis?. 2007 , 35, 634-5	1
612	Comfort without coma: changing sedation practices. 2007 , 35, 635-7	23
611	Low-dose perfluorocarbon: a revival for partial liquid ventilation?. 2007 , 35, 662-3	5
610	The peritonitis dilemma: better safe than sorry or wait for the cat to jump?. 2007 , 35, 648-9	
609	Silent myocardial ischemia in the noncoronary intensive care unit: a new frontier?. 2007 , 35, 629-30	
608	Prognostic information provided during family meetings in the intensive care unit. 2007 , 35, 646-7	1
607	"Search and destroy" for methicillin-resistant <i>Staphylococcus aureus</i> in the intensive care unit: should this now be the standard of care?. 2007 , 35, 642-4	2
606	Reducing blood loss in burn care. 2007 , 35, 665	5
605	Chlamydia and myocarditis: an old bug bugging seriously. 2007 , 35, 670-2	
604	How do we get from here to there? A pathway for trial design in complex systems analysis. 2007 , 35, 656-8	4
603	Family care in the intensive care unit: the Golden Rule, evidence, and resources. 2007 , 35, 669-70	6
602	How should we use prokinetic drugs in patients who are intolerant to enteral feeding?. 2007 , 35, 650-1	1
601	To cool or not to cool, that is the question. 2007 , 35, 660-2	3
600	Heart rate variability: impact of differences in outlier identification and management strategies on common measures in three clinical populations. 2007 , 62, 337-42	34
599	Fractal scale-invariant and nonlinear properties of cardiac dynamics remain stable with advanced age: a new mechanistic picture of cardiac control in healthy elderly. 2007 , 293, R1923-37	90

598	Estimation of ApEn for short-term HFECG based on multi-resolution analysis. 2007 , 376, 401-408	8
597	Multiscale analysis of short term heart beat interval, arterial blood pressure, and instantaneous lung volume time series. 2007 , 41, 237-50	50
596	Long-range correlation of renal sympathetic nerve activity in both conscious and anesthetized rats. 2008 , 172, 131-6	13
595	Multi-resolution entropy analysis of gait symmetry in neurological degenerative diseases and amyotrophic lateral sclerosis. 2008 , 30, 299-310	55
594	Complexity of human postural control in young and older adults during prolonged standing. 2008 , 191, 265-76	151
593	Radial basis function classifiers to help in the diagnosis of the obstructive sleep apnoea syndrome from nocturnal oximetry. 2008 , 46, 323-32	25
592	Approximate entropy and auto mutual information analysis of the electroencephalogram in Alzheimer's disease patients. 2008 , 46, 1019-28	80
591	Multi-scale entropy analysis of Mississippi River flow. 2008 , 22, 507-512	72
590	Adaptive computation of approximate entropy and its application in integrative analysis of irregularity of heart rate variability and intracranial pressure signals. 2008 , 30, 631-9	32
589	Effects of old age on vascular complexity and dispersion of the hepatic sinusoidal network. 2008 , 15, 191-202	26
588	Physiological complexity underlying heart rate dynamics and frailty status in community-dwelling older women. 2008 , 56, 1698-703	58
587	Recurrences in heart rate dynamics are changed in patients with diabetes mellitus. 2008 , 28, 326-31	35
586	Differential time- and frequency-dependent structure of postural sway and finger tremor in Parkinson's disease. 2008 , 443, 123-8	28
585	Heart rate non linear dynamics in patients with persistent vegetative state: a preliminary report. 2008 , 22, 33-7	25
584	A comparison of fetal and neonatal heart rate variability at similar post-menstrual ages. 2008 , 2008, 2801-4	5
583	A theory of age-dependent mutation and senescence. 2008 , 179, 2061-73	35
582	Reduced short-term complexity of heart rate and blood pressure dynamics in patients with diabetes mellitus type 1: multiscale entropy analysis. 2008 , 29, 817-28	58
581	Multiscale sample entropy in heart rate variability of aortic stenosis patients. 2008 , 2008, 2000-3	4

580 Symbolic Dynamic Analysis of Physiological Time Series. **2008,**

579 Conceitos fisiológicos do treinamento físico-esportivo: estresse, homeostase e alostase. **2008, 10,**

578 Reduced physiological complexity in robust elderly adults with the APOE epsilon4 allele. **2009, 4, e7733** 21

577 ADAPTIVE DATA ANALYSIS OF COMPLEX FLUCTUATIONS IN PHYSIOLOGIC TIME SERIES. **2009, 1, 61-70** 100

576 Interpretation of the auto-mutual information rate of decrease in the context of biomedical signal analysis. Application to electroencephalogram recordings. **2009, 30, 187-99** 48

575 Neurodevelopment in newborns: a sample entropy analysis of electroencephalogram. **2009, 30, 491-504** 23

574 Multiscale entropy analysis of EEG for assessment of post-cardiac arrest neurological recovery under hypothermia in rats. **2009, 56, 1023-31** 37

573 Applying fractal analysis to short sets of heart rate variability data. **2009, 47, 709-17** 32

572 Detection of changes in the fractal scaling of heart rate and speed in a marathon race. **2009, 388, 3798-3808** 24

571 Genetic model for longitudinal studies of aging, health, and longevity and its potential application to incomplete data. **2009, 258, 103-11** 31

570 Consistency in approximate entropy given by a volumetric estimate. **2009, 42, 322-334** 2

569 Age-related changes in the adaptability of neuromuscular output. **2009, 41, 274-83** 18

568 Effects of stress on heart rate complexity--a comparison between short-term and chronic stress. **2009, 80, 325-32** 176

567 Breathing frequency bias in fractal analysis of heart rate variability. **2009, 82, 82-8** 31

566 Nonlinear analysis of sitting postural sway indicates developmental delay in infants. **2009, 24, 564-70** 45

565 Dynamical structure of center of pressure fluctuations in elderly people. **2009, 30, 223-6** 46

564 The effects of meperidine and epidural analgesia in labor on maternal heart rate variability. **2009, 18, 118-24** 5

563 Complexity analysis of spontaneous brain activity in attention-deficit/hyperactivity disorder: diagnostic implications. **2009, 65, 571-7** 67

562	Age-related variation in EEG complexity to photic stimulation: a multiscale entropy analysis. 2009 , 120, 476-83	93
561	Using network connectance and autonomy analyses to uncover patterns of photosynthetic responses in tropical woody species. 2009 , 6, 15-26	22
560	Gait dynamics in Parkinson's disease: common and distinct behavior among stride length, gait variability, and fractal-like scaling. 2009 , 19, 026113	357
559	Influence of acute epinephrine infusion on endotoxin-induced parameters of heart rate variability: a randomized controlled trial. 2009 , 249, 750-6	45
558	Contribution of skin temperature regularity to the risk of developing pressure ulcers in nursing facility residents. 2009 , 22, 506-13	11
557	Walking changes the dynamics of cognitive estimates of time intervals. 2009 , 35, 1532-41	33
556	GeoEntropy: A measure of complexity and similarity. 2010 , 43, 887-896	24
555	Intrinsic mode analysis of human heartbeat time series. 2010 , 38, 1337-44	12
554	Application of Tsallis entropy to EEG: quantifying the presence of burst suppression after asphyxial cardiac arrest in rats. 2010 , 57, 867-74	31
553	Characterizing nonlinear heartbeat dynamics within a point process framework. 2010 , 57, 1335-47	39
552	Fractals for physicians. 2010 , 11, 123-31	27
551	Investigating fractal property and respiratory modulation of human heartbeat time series using empirical mode decomposition. 2010 , 32, 490-6	12
550	Pattern synchrony in electrical signals related to earthquake activity. 2010 , 389, 1239-1252	7
549	Traumatic brain injury and aging: is a combination of progesterone and vitamin D hormone a simple solution to a complex problem?. 2010 , 7, 81-90	35
548	Unexpected heart rate variability complexity in the aging process of arrhythmic subjects. 2010 , 15, 1858-1863	5
547	Entropy of balance--some recent results. 2010 , 7, 38	118
546	On the ontological assumptions of the medical model of psychiatry: philosophical considerations and pragmatic tasks. 2010 , 5, 3	27
545	Biomarkes of aging. 2010 , 2, 392-402	31

544	Voluntary performance. 2010 , 46, 581	18
543	Periodic heart rate decelerations in premature infants. 2010 , 235, 531-8	20
542	Complexity analysis of spontaneous brain activity in Alzheimer disease and mild cognitive impairment: an MEG study. 2010 , 24, 182-9	46
541	Multifractal and nonlinear assessment of autonomous nervous system response during transient myocardial ischaemia. 2010 , 31, 565-80	23
540	Information Technologies in Biomedicine. 2010 ,	2
539	Scale invariance as a symmetry in physical and biological systems: listening to photons, bubbles and heartbeats. 2010 ,	9
538	De Gruyter. 2010 , 10,	14
537	Reliability difference between spectral and entropic measures of erector spinae muscle fatigability. 2010 , 20, 25-30	15
536	Exploring measures of whole person wellness: integrative well-being and psychological flourishing. 2010 , 6, 364-70	26
535	Assessment of EEG dynamical complexity in Alzheimer's disease using multiscale entropy. 2010 , 121, 1438-1446	156
534	Cardiac autonomic regulation is impaired in girls with major depression. 2010 , 34, 613-8	52
533	An organismal view of cellular aging. 2010 , 2, 141-150	3
532	Complexity-based analysis for the detection of heart murmurs. 2011 , 2011, 2728-31	4
531	Criticality and long-range correlations in time series in classical and quantum systems. 2011 , 84, 016224	18
530	Universal Access in Human-Computer Interaction. Applications and Services. 2011 ,	1
529	Time-to-contact and multiscale entropy identify differences in postural control in adolescent idiopathic scoliosis. 2011 , 34, 13-8	43
528	State-, parameter-, and graph-dynamics: Constraints and the distillation of postural control systems. 2011 , 5-18	11
527	Aging and Changes in Complexity in the Neurobehavioral System. 2011 , 47, 1-10	8

526	What is the meaning and origin of complex biologic variability?. 2011 , 26, e28-e29	
525	Surrogate data modeling the relationship between high frequency amplitudes and Higuchi fractal dimension of EEG signals in anesthetized rats. 2011 , 289, 160-6	10
524	Inter-individual differences in fMRI entropy measurements in old age. 2011 , 58, 3206-14	29
523	Robust methodology for fractal analysis of the retinal vasculature. 2011 , 30, 243-50	53
522	Approximate entropy used to assess sitting postural sway of infants with developmental delay. 2011 , 34, 81-99	24
521	Prompt prediction of successful defibrillation from 1-s ventricular fibrillation waveform in patients with out-of-hospital sudden cardiac arrest. 2011 , 25, 34-41	17
520	Characterizing the dynamics of postural sway in humans using smoothness and regularity measures. 2011 , 39, 161-71	20
519	Multifractal analysis of nonlinear complexity of sacral skin blood flow oscillations in older adults. 2011 , 49, 925-34	15
518	Network centrality and multiscale transition asymmetry in the heart rate variability analysis of normal and preeclamptic pregnancies. 2011 , 16, 1589-1596	2
517	Fractal analysis of behaviour in a wild primate: behavioural complexity in health and disease. 2011 , 8, 1497-509	49
516	Functional isolation within the cerebral cortex in the vegetative state: a nonlinear method to predict clinical outcomes. 2011 , 25, 35-42	53
515	Living in the Pink. 2011 , 629-672	35
514	Decreased neuroautonomic complexity in men during an acute major depressive episode: analysis of heart rate dynamics. 2011 , 1, e27	52
513	Methodological implications of nonlinear dynamical systems models for whole systems of complementary and alternative medicine. 2012 , 19 Suppl 1, 15-21	29
512	Relationship between heart rate variability indexes and common biochemical markers in normal and hypertensive third trimester pregnancy. 2012 , 31, 59-69	6
511	A review of human factors challenges of complex adaptive systems: discovering and understanding chaos in human performance. 2012 , 54, 983-95	70
510	Evaluation of physiologic complexity in time series using generalized sample entropy and surrogate data analysis. 2012 , 22, 043105	32
509	STATISTICS OF EXTREME VARIATIONS OF RR HEARTBEAT INTERVALS. 2012 , 11, 1240015	1

508	Using recurrence network approach to quantify nonlinear dynamics of skin blood flow in response to loading pressure. 2012 , 2012, 4196-9	1
507	Aging, neuromuscular decline, and the change in physiological and behavioral complexity of upper-limb movement dynamics. 2012 , 2012, 891218	37
506	Gait variability measures reveal differences between multiple sclerosis patients and healthy controls. 2012 , 16, 229-44	71
505	Computational Complexity. 2012 , 705-723	1
504	Nonlinear dynamical systems effects of homeopathic remedies on multiscale entropy and correlation dimension of slow wave sleep EEG in young adults with histories of coffee-induced insomnia. 2012 , 101, 182-92	17
503	Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. 2012 , 113, 1810-20	58
502	A naturalistic study of the effect of acupuncture on heart-rate variability. 2012 , 5, 15-20	8
501	The effect of footwear on postural control in bipedal quiet stance. 2012 , 4, 115-122	25
500	Age-related rarefaction in the fractal dimension of retinal vessel. <i>Neurobiology of Aging</i> , 2012 , 33, 194.e15-6	50
499	A holistic approach to study the temporal variability in gait. 2012 , 45, 1127-32	39
498	Relation between risk of falling and postural sway complexity in diabetes. 2012 , 35, 662-8	69
497	The influence of gaze behaviour on postural control from early childhood into adulthood. 2012 , 36, 78-84	20
496	Immunosenescence, inflammation and Alzheimer's disease. 2012 , 1, 8	46
495	Effect of increasing difficulty in standing balance tasks with visual feedback on postural sway and EMG: complexity and performance. 2012 , 31, 1224-37	31
494	A comparison of patients' heart rate variability and blood flow variability during surgery based on the Hilbert-Huang Transform. 2012 , 7, 465-473	9
493	On the relation between correlation dimension, approximate entropy and sample entropy parameters, and a fast algorithm for their calculation. 2012 , 391, 6601-6610	27
492	MULTISCALE ENTROPY ANALYSIS OF FINANCIAL TIME SERIES. 2012 , 11, 1250033	34
491	Fractal variability: an emergent property of complex dissipative systems. 2012 , 22, 013108	44

490	A unified point process probabilistic framework to assess heartbeat dynamics and autonomic cardiovascular control. <i>Frontiers in Physiology</i> , 2012 , 3, 4	4.6	5
489	A recurrence network approach for the analysis of skin blood flow dynamics in response to loading pressure. 2012 , 2, 47-56		
488	Entropy analysis of tri-axial leg acceleration signal waveforms for measurement of decrease of physiological variability in human gait. 2012 , 30, 897-904		43
487	Electrophysiological entropy in younger adults, older controls and older cognitively declined adults. 2012 , 1445, 1-10		17
486	Randomness and changes of heart rate and respiratory frequency during high altitude mountain ascent without acclimatization. 2012 , 391, 1575-1590		2
485	Correlation dimension estimates of human postural sway. 2013 , 32, 48-64		10
484	Space physiology IV: mathematical modeling of the cardiovascular system in space exploration. 2013 , 113, 1919-37		7
483	Dynamic processes in regulation and some implications for biofeedback and biobehavioral interventions. 2013 , 38, 143-55		54
482	Recurrence quantification analysis of human postural fluctuations in older fallers and non-fallers. 2013 , 41, 1713-25		52
481	An Integrated View of Health and Well-being. 2013 ,		3
480	Cognitive and neuropsychiatric correlates of EEG dynamic complexity in patients with Alzheimer's disease. 2013 , 47, 52-61		74
479	Complexity of the autonomic heart rate control in coronary artery occlusion in patients with and without prior myocardial infarction. 2013 , 35, 1070-8		4
478	Complementary and integrative treatments: rhinosinusitis. 2013 , 46, 345-66		4
477	Smartphone-enabled pulse rate variability: an alternative methodology for the collection of heart rate variability in psychophysiological research. 2013 , 89, 297-304		82
476	Mood recognition in bipolar patients through the PSYCHE platform: preliminary evaluations and perspectives. 2013 , 57, 49-58		71
475	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, 428-38	5.6	121
474	Association of altered cardiac autonomic function with psychopathology and metabolic profiles in schizophrenia. 2013 , 210, 710-5		17
473	Age-related rarefaction in retinal vasculature is not linear. 2013 , 116, 355-358		7

472	Resting state fMRI entropy probes complexity of brain activity in adults with ADHD. 2013 , 214, 341-8	87
471	Physiologic complexity and aging: implications for physical function and rehabilitation. 2013 , 45, 287-93	89
470	Is mental illness complex? From behavior to brain. 2013 , 45, 253-7	73
469	El procesado del desplazamiento del centro de presiones para el estudio de la relación complejidad/rendimiento observada en el control postural en bipedestación. 2013 , 6, 101-107	4
468	Fractal dimension as an index of left ventricular ischaemia: a pilot study. 2013 , 34, 83-97	2
467	Bottom up modeling of the connectome: linking structure and function in the resting brain and their changes in aging. 2013 , 80, 318-29	56
466	Complexity quantification of signals from the heart, the macrocirculation and the microcirculation through a multiscale entropy analysis. 2013 , 8, 341-345	6
465	Skin blood flow dynamics and its role in pressure ulcers. 2013 , 22, 25-36	58
464	Relevance of magnetic resonance imaging for early detection and diagnosis of Alzheimer disease. 2013 , 97, 399-424	108
463	. 2013 , 61, 2914-2926	57
462	Assessing complexity of skin blood flow oscillations in response to locally applied heating and pressure in rats: implications for pressure ulcer risk. 2013 , 392, 4905-4905	3
461	Age-related task sensitivity of frontal EEG entropy during encoding predicts retrieval. 2013 , 26, 547-57	8
460	Progress in Motor Control. 2013 ,	3
459	Multifractal detrended fluctuation analysis of human gait diseases. <i>Frontiers in Physiology</i> , 2013 , 4, 274 4.6	61
458	The Emergence of Health in Complex Adaptive Systems: A Common Ground for Ayurveda and Western Science. 2013 , 163-185	3
457	Complex Systems and Computational Biology Approaches to Acute Inflammation. 2013 ,	7
456	Nonlinear variability of body sway in patients with phobic postural vertigo. 2013 , 4, 115	25
455	A Unification between Dynamical System Theory and Thermodynamics Involving an Energy, Mass, and Entropy State Space Formalism. <i>Entropy</i> , 2013 , 15, 1821-1846	2.8 5

454	Filter-based multiscale entropy analysis of complex physiological time series. 2013 , 88, 022716			4
453	Complexity analysis of resting state magnetoencephalography activity in traumatic brain injury patients. 2013 , 30, 1702-9			24
452	Temperature multiscale entropy analysis: a promising marker for early prediction of mortality in septic patients. 2013 , 34, 1449-66			19
451	Fractal Physiology, Breath-to-Breath Variability and Respiratory Diseases: An Introduction to Complex Systems Theory Application in Pulmonary and Critical Care Medicine. 2013 ,			
450	Reversal of informational entropy and the acquisition of germ-like immortality by somatic cells. 2014 , 7, 9-16			10
449	Detrended fluctuation analysis and adaptive fractal analysis of stride time data in Parkinson's disease: stitching together short gait trials. 2014 , 9, e85787			49
448	Multiscale complexity analysis of the cardiac control identifies asymptomatic and symptomatic patients in long QT syndrome type 1. 2014 , 9, e93808			29
447	Phase synchronization in electroencephalographic recordings prognosticates outcome in paediatric coma. 2014 , 9, e94942			13
446	A comment on "Measuring fractality" by Stadnitski (2012). <i>Frontiers in Physiology</i> , 2014 , 5, 28	4.6	1	
445	Network complexity as a measure of information processing across resting-state networks: evidence from the Human Connectome Project. <i>Frontiers in Human Neuroscience</i> , 2014 , 8, 409	3.3	68	
444	Sample entropy reveals high discriminative power between young and elderly adults in short fMRI data sets. 2014 , 8, 69			52
443	Evaluation of postural steadiness before and after sedation: comparison of four nonlinear and three conventional measures. 2014 , 35, 139-51			3
442	Comparison of Multiscale Methods in the Stock Markets for Detrended Cross-correlation Analysis and Cross-sample Entropy. 2014 , 13, 1450023			14
441	Human Brain Networks: Spiking Neuron Models, Multistability, Synchronization, Thermodynamics, Maximum Entropy Production, and Anesthetic Cascade Mechanisms. <i>Entropy</i> , 2014 , 16, 3939-4003	2.8	12	
440	Increased metabolic flexibility and complexity in a long-lived growth hormone insensitive mouse model. 2014 , 69, 274-81			4
439	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. <i>Entropy</i> , 2014 , 16, 6686-6704	2.8	30	
438	Nonlinear effects of nanoparticles: biological variability from hormetic doses, small particle sizes, and dynamic adaptive interactions. 2014 , 12, 202-32			42
437	Predicting subject performance level from EEG signal complexity when engaged in BCI paradigm. 2014 ,			1

436	TCM pulse analysis of the patients with coronary heart disease based on Multiscale Entropy. 2014,	2
435	The APOE e4 allele affects complexity and functional connectivity of resting brain activity in healthy adults. 2014, 35, 3238-48	34
434	Two-dimensional sample entropy analysis of rat sural nerve aging. 2014, 2014, 3345-8	2
433	Estimation of instantaneous complex dynamics through Lyapunov exponents: a study on heartbeat dynamics. 2014, 9, e105622	40
432	Local dynamics of heart rate: detection and prognostic implications. 2014, 35, 1929-42	17
431	Enhancing postural stability and adaptability in multiple sclerosis. 2014, 826, 251-76	7
430	Estimation of Heterogeneity in Diagnostic Parameters of Age-related Diseases. 2014, 5, 218-25	5
429	Self-rated health: patterns in the journeys of patients with multi-morbidity and frailty. 2014, 20, 1010-6	14
428	Complexity-loss in fetal heart rate dynamics during labor as a potential biomarker of acidemia. 2014, 90, 67-71	24
427	From data patterns to mechanistic models in acute critical illness. 2014, 29, 604-10	26
426	Airflow pattern complexity during resting breathing in patients with COPD: effect of airway obstruction. 2014, 192, 39-47	23
425	Optimizing human activity patterns using global sensitivity analysis. 2014, 20, 394-416	7
424	The association of physical activity to neural adaptability during visuo-spatial processing in healthy elderly adults: A multiscale entropy analysis. 2014, 92C, 73-83	20
423	Hypoglycemia-related electroencephalogram changes assessed by multiscale entropy. 2014, 16, 688-94	20
422	β cell subsets in human aging using the classical β cell model. 2014, 96, 647-55	36
421	Wearable monitoring for mood recognition in bipolar disorder based on history-dependent long-term heart rate variability analysis. 2014, 18, 1625-35	99
420	Test-retest reliability of electromyographic variables of masseter and temporal muscles in patients with cerebral palsy. 2014, 59, 1352-8	9
419	Visual availability, balance performance and movement complexity in dancers. 2014, 40, 556-60	25

4 ¹⁸	Complexity of human postural control in subjects with unilateral peripheral vestibular hypofunction. 2014 , 40, 581-6		11
4 ¹⁷	Non-linear EEG analyses predict non-response to rTMS treatment in major depressive disorder. 2014 , 125, 1392-9		32
4 ¹⁶	Complexity and time asymmetry of heart rate variability are altered in acute mental stress. 2014 , 35, 1319-34		70
4 ¹⁵	Patterns of sedentary behavior and weight status among children. 2014 , 26, 95-102		56
4 ¹⁴	Evolution of the Heart Rate Variability complexity during Kangchenjunga climbing. 2015 ,		
4 ¹³	The influence of auditory-motor coupling on fractal dynamics in human gait. <i>Scientific Reports</i> , 2014 , 4, 5879	4.9	54
4 ¹²	Risk evaluation of diabetes mellitus by relation of chaotic globals to HRV. 2015 , 20, 84-92		20
4 ¹¹	The effect of hemodialysis session on postural strategies in older end-stage renal disease patients. 2015 , 19, 553-61		7
4 ¹⁰	Dynamical Change of Signal Complexity in the Brain During Inhibitory Control Processes. <i>Entropy</i> , 2015 , 17, 6834-6853	2.8	2
4 ⁰⁹	Characterizing psychological dimensions in non-pathological subjects through autonomic nervous system dynamics. 2015 , 9, 37		13
4 ⁰⁸	Rethinking energy in parkinsonian motor symptoms: a potential role for neural metabolic deficits. 2014 , 8, 242		11
4 ⁰⁷	Using local scale exponent to characterize heart rate variability in response to postural changes in people with spinal cord injury. <i>Frontiers in Physiology</i> , 2015 , 6, 142	4.6	5
4 ⁰⁶	Asymmetric asynchrony of financial time series based on asymmetric multiscale cross-sample entropy. 2015 , 25, 032101		3
4 ⁰⁵	The complexities of keeping the beat: dynamical structure in the nested behaviors of finger tapping. 2015 , 77, 1423-39		6
4 ⁰⁴	Effects of transcranial direct current stimulation (tDCS) on multiscale complexity of dual-task postural control in older adults. 2015 , 233, 2401-9		36
4 ⁰³	Heart rate variability biofeedback: Theoretical basis, delivery, and its potential for the treatment of substance use disorders. 2015 , 23, 266-272		29
4 ⁰²	Children with cerebral palsy effectively modulate postural control to perform a supra-postural task. 2015 , 42, 49-53		9
4 ⁰¹	Fuzzy approximate entropy analysis of resting state fMRI signal complexity across the adult life span. 2015 , 37, 1082-90		21

400	Multiscale entropy-based methods for heart rate variability complexity analysis. 2015 , 422, 143-152	26
399	Fatigue reduces the complexity of knee extensor torque fluctuations during maximal and submaximal intermittent isometric contractions in man. 2015 , 593, 2085-96	52
398	Decreased resting-state brain activity complexity in schizophrenia characterized by both increased regularity and randomness. 2015 , 36, 2174-86	45
397	Heart rate complexity in sinoaortic-denervated mice. 2015 , 100, 156-63	8
396	Wavelet-based characterization of gait signal for neurological abnormalities. 2015 , 41, 634-9	25
395	Cardiac autonomic modulation in non-frail, pre-frail and frail elderly women: a pilot study. 2015 , 27, 621-9	24
394	Limits of permutation-based entropies in assessing complexity of short heart period variability. 2015 , 36, 755-65	18
393	Degradation of postural control with aging. 2015 , 229, 638-44	18
392	Measuring synchronization in coupled simulation and coupled cardiovascular time series: A comparison of different cross entropy measures. 2015 , 21, 49-57	14
391	What COP and Kinematic Parameters Better Characterize Postural Control in Standing Balance Tasks?. 2015 , 47, 550-62	20
390	Toll-like receptor 9 plays a key role in the autonomic cardiac and baroreflex control of arterial pressure. 2015 , 308, R714-23	13
389	MEG analysis of neural dynamics in attention-deficit/hyperactivity disorder with fuzzy entropy. 2015 , 37, 416-23	15
388	Influence of repeated effort induced by a 6-min walk test on postural response in older sedentary women. 2015 , 27, 695-701	6
387	Interaction between intention and environmental constraints on the fractal dynamics of human performance. 2015 , 16, 343-50	7
386	The recursive combination filter approach of pre-processing for the estimation of standard deviation of RR series. 2015 , 38, 413-23	3
385	On Quantifying Facial Expression-Related Atypicality of Children with Autism Spectrum Disorder. 2015 , 2015, 803-807	18
384	Optimal Selection of Threshold Value 'r' for Refined Multiscale Entropy. 2015 , 6, 557-76	3
383	Neurophysiological basis of creativity in healthy elderly people: a multiscale entropy approach. 2015 , 126, 524-31	20

382	Age differences in the default network at rest and the relation to self-referential processing. 2015 , 10, 231-9		9
381	Temporal organization of stride duration variability as a marker of gait instability in Parkinson's disease. 2016 , 48, 865-871		25
380	Brazilian studies on pulmonary function in COPD patients: what are the gaps?. 2016 , 11, 1553-67		6
379	Higuchi fractal dimension applied to RR intervals in children with Attention Deficit Hyperactivity Disorder. 2016 , 26, 147		4
378	Measuring entropy in functional neuroscience: pathophysiological and clinical applications. 2016 , Volume 5, 45-53		7
377	State Anxiety and Nonlinear Dynamics of Heart Rate Variability in Students. 2016 , 11, e0146131		49
376	Using Skewness and the First-Digit Phenomenon to Identify Dynamical Transitions in Cardiac Models. <i>Frontiers in Physiology</i> , 2015 , 6, 390	4.6	2
375	Complexity analysis of fetal heart rate preceding intrauterine demise. 2016 , 203, 286-90		4
374	How Genes Modulate Patterns of Aging-Related Changes on the Way to 100: Biodemographic Models and Methods in Genetic Analyses of Longitudinal Data. 2016 , 20, 201-232		5
373	Applied a Multi-scale Entropy Algorithm to Analyze Dynamic COP Signal via Accelerometer Sensor. 2016 ,		1
372	Aging effect on microcirculation: A multiscale entropy approach on laser speckle contrast images. 2016 , 43, 4008		7
371	Electroencephalogram variability in patients with cirrhosis associates with the presence and severity of hepatic encephalopathy. 2016 , 65, 517-23		16
370	Fractal analysis reveals subclasses of neurons and suggests an explanation of their spontaneous activity. 2016 , 626, 54-8		8
369	Ökonomische Aspekte und systemtheoretische Denkanstöße als Erklärungsmodell für die Wirkung einer komplexen medizinischen Kur. 2016 , 26, 59-66		
368	Human Movement Variability and Aging. 2016 , 5, 15-22		10
367	The Evolving Dynamical Landscape of Movement Forms: A Degrees of Freedom Perspective. 2016 , 5, 4-14		3
366	The association between physical activity, sedentary behavior, sleep, and body mass index z-scores in different settings among toddlers and preschoolers. 2016 , 16, 100		25
365	Monitoring Variability and Complexity at the Bedside. 2016 , 91-105		1

364	Heart rhythm complexity impairment in patients undergoing peritoneal dialysis. <i>Scientific Reports</i> , 2016 , 6, 28202	4.9	15
363	Characterisation of the complexity of intracranial pressure signals measured from idiopathic and secondary normal pressure hydrocephalus patients. 2016 , 3, 226-229		
362	Improving the detection of mtbi via complexity analysis in resting - state magnetoencephalography. 2016 ,		3
361	Heart rate variability analysis by chaotic global techniques in children with attention deficit hyperactivity disorder. 2016 , 21, 412-419		13
360	Loss of knee extensor torque complexity during fatiguing isometric muscle contractions occurs exclusively above the critical torque. 2016 , 310, R1144-53		22
359	Analysis of altered complexity of gait dynamics with aging and Parkinson's disease using ternary Lempel-Ziv complexity. 2016 , 3, 1177924		3
358	Complexity quantification of cardiac variability time series using improved sample entropy (I-SampEn). 2016 , 39, 755-63		10
357	Predicting Mood Changes in Bipolar Disorder through Heartbeat Nonlinear Dynamics. 2016 , 20, 1034-1043		35
356	Multivariate multiscale sample entropy of traffic time series. 2016 , 86, 479-488		25
355	Preventive Medicine and Healthy Longevity: Basis for Sustainable Anti-Aging Strategies. 2016 , 1213-1227		2
354	Locomotor Sensory Organization Test: How Sensory Conflict Affects the Temporal Structure of Sway Variability During Gait. 2016 , 44, 1625-35		9
353	A synopsis on aging-Theories, mechanisms and future prospects. 2016 , 29, 90-112		165
352	Heart rate and blood pressure control in obesity - how to detect early dysregulation?. 2016 , 36, 337-45		8
351	Neuronal Complexity in Subthalamic Nucleus is Reduced in Parkinson's Disease. 2016 , 24, 36-45		5
350	Non linear approach to study the dynamics of neurodegenerative diseases by Multifractal Detrended Cross-correlation Analysis - a quantitative assessment on gait disease. 2016 , 448, 181-195		19
349	Discriminating Multiple Emotional States from EEG Using a Data-Adaptive, Multiscale Information-Theoretic Approach. 2016 , 26, 1650005		24
348	Traditional Chinese medicine: potential approaches from modern dynamical complexity theories. 2016 , 10, 28-32		32
347	Variations in task constraints shape emergent performance outcomes and complexity levels in balancing. 2016 , 234, 1611-22		13

346	Cerebrovascular Signal Complexity Six Hours after Intensive Care Unit Admission Correlates with Outcome after Severe Traumatic Brain Injury. 2016 , 33, 2011-2018		27
345	The Value of Systems and Complexity Sciences for Healthcare. 2016 ,		2
344	An alternative approach to approximate entropy threshold value (r) selection: application to heart rate variability and systolic blood pressure variability under postural challenge. 2016 , 54, 723-32		10
343	Improved multiscale permutation entropy for biomedical signal analysis: Interpretation and application to electroencephalogram recordings. 2016 , 23, 28-41		84
342	Functional Task Constraints Foster Enhanced Postural Control in Children With Cerebral Palsy. 2016 , 96, 348-54		11
341	Can a Body-Fixed Sensor Reduce Heisenberg's Uncertainty When It Comes to the Evaluation of Mobility? Effects of Aging and Fall Risk on Transitions in Daily Living. 2016 , 71, 1459-1465		33
340	The application of information theory for the research of aging and aging-related diseases. 2017 , 157, 158-173		19
339	Exploring total cardiac variability in healthy and pathophysiological subjects using improved refined multiscale entropy. 2017 , 55, 191-205		6
338	The relationship between ERP components and EEG spatial complexity in a visual Go/Nogo task. <i>Journal of Neurophysiology</i> , 2017 , 117, 275-283	3.2	14
337	Reduced complexity of force and muscle activity during low level isometric contractions of the ankle in diabetic individuals. 2017 , 42, 38-46		17
336	Heart rate complexity analysis in Brugada syndrome during physical stress testing. 2017 , 38, 387-396		7
335	Basic cardiovascular variability signals: mutual directed interactions explored in the information domain. 2017 , 38, 877-894		27
334	Multivariate weighted multiscale permutation entropy for complex time series. 2017 , 88, 1707-1722		32
333	Complexity Variability Assessment of Nonlinear Time-Varying Cardiovascular Control. <i>Scientific Reports</i> , 2017 , 7, 42779	4.9	29
332	From healthy to pathology through a fall in dynamical complexity of involuntary oscillations of the human hand. 2017 , 243, 142-154		4
331	The role of sympathetic and vagal cardiac control on complexity of heart rate dynamics. 2017 , 312, H469-H477		32
330	Allostatic load: a useful concept for advancing nursing research. 2017 , 26, 5191-5205		10
329	Nonlinear assessment of motor variability during practice and competition for individuals with different motivational orientations. 2017 , 58, 16-26		2

328	Multifractality, Interactivity, and the Adaptive Capacity of the Human Movement System: A Perspective for Advancing the Conceptual Basis of Neurologic Physical Therapy. 2017 , 41, 245-251		26
327	Pain Prediction From ECG in Vascular Surgery. 2017 , 5, 2800310		8
326	Exploiting Physiological Sensors and Biosignal Processing to Enhance Monitoring Care in Mental Health. 2017 , 515-550		1
325	Time-Varying Cardiovascular Complexity with Focus on Entropy and Lyapunov Exponents. 2017 , 233-256		
324	Complexity in behavioural organization and strongylid infection among wild chimpanzees. 2017 , 129, 257-268		9
323	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. 2017 , 64, 1287-1296		29
322	Decoding the perception of endogenous pain from resting-state MEG. 2017 , 144, 1-11		22
321	Neural complexity as a potential translational biomarker for psychosis. 2017 , 216, 89-99		27
320	Refined composite multivariate generalized multiscale fuzzy entropy: A tool for complexity analysis of multichannel signals. 2017 , 465, 261-276		46
319	. 2017 ,		7
318	Towards the identification of subjects prone to develop atrial fibrillation after coronary artery bypass graft surgery via univariate and multivariate complexity analysis of heart period variability. 2017 , 2017, 3126-3129		
317	Double symbolic joint entropy in nonlinear dynamic complexity analysis. 2017 , 7, 075313		9
316	Heartbeat Complexity Modulation in Bipolar Disorder during Daytime and Nighttime. <i>Scientific Reports</i> , 2017 , 7, 17920	4.9	13
315	Instantaneous Transfer Entropy for the Study of Cardiovascular and Cardiorespiratory Nonstationary Dynamics. 2018 , 65, 1077-1085		9
314	Fractal Analysis of Cardiovascular Signals Empowering the Bioengineering Knowledge. 2017 ,		2
313	Multivariate Multiscale Symbolic Entropy Analysis of Human Gait Signals. <i>Entropy</i> , 2017 , 19, 557	2.8	11
312	Distance-Based Lempel-Ziv Complexity for the Analysis of Electroencephalograms in Patients with Alzheimer's Disease. <i>Entropy</i> , 2017 , 19, 129	2.8	6
311	Thermodynamics: The Unique Universal Science. <i>Entropy</i> , 2017 , 19, 621	2.8	12

310	Altered Brain Complexity in Women with Primary Dysmenorrhea: A Resting-State Magneto-Encephalography Study Using Multiscale Entropy Analysis. <i>Entropy</i> , 2017 , 19, 680	2.8	8
309	Characterization of cerebral blood flow dynamics with multiscale entropy. 2017 , 10, 1743005		3
308	Occupational functional plasticity revealed by brain entropy: A resting-state fMRI study of seafarers. 2018 , 39, 2997-3004		14
307	Automated characterization of cardiovascular diseases using relative wavelet nonlinear features extracted from ECG signals. 2018 , 161, 133-143		21
306	Putting Systems and Complexity Sciences Into Practice. 2018 ,		1
305	Entropy-based method to quantify limb length discrepancy using inertial sensors. 2018 , 8, 10-16		3
304	Entropies for automated detection of coronary artery disease using ECG signals: A review. 2018 , 38, 373-384		48
303	A Computational Study of Expressive Facial Dynamics in Children with Autism. 2018 , 9, 14-20		32
302	Unstable Footwear Affects Magnitude and Structure of Variability in Postural Control. 2018 , 22, 1-17		10
301	Nonlinear dynamical analysis of sleep electroencephalography using fractal and entropy approaches. 2018 , 37, 85-93		61
300	Later stages of diabetic neuropathy affect the complexity of the neuromuscular system at the knee during low-level isometric contractions. 2018 , 57, 112-121		2
299	The role of conscious control in maintaining stable posture. 2018 , 57, 442-450		11
298	The Effects of Aging and Dual Tasking on Human Gait Complexity During Treadmill Walking: A Comparative Study Using Quantized Dynamical Entropy and Sample Entropy. 2018 , 140,		13
297	Multifractal detrended cross correlation analysis of neuro-degenerative diseasesâAn in depth study. 2018 , 491, 188-198		10
296	Refined generalized multiscale entropy analysis for physiological signals. 2018 , 490, 975-985		9
295	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. 2018 , 39, 014002		20
294	Quantifying the dynamics of electroencephalographic (EEG) signals to distinguish alcoholic and non-alcoholic subjects using an MSE based K-d tree algorithm. 2018 , 63, 481-490		17
293	Theoretical Study of Multiscale Permutation Entropy on Finite-Length Fractional Gaussian Noise. 2018 ,		2

292	Sample Entropy of sEMG Signals at Different Stages of Rectal Cancer Treatment. <i>Entropy</i> , 2018 , 20,	2.8	6
291	The Female Heart: Sex Differences in the Dynamics of ECG in Response to Stress. <i>Frontiers in Physiology</i> , 2018 , 9, 1616	4.6	11
290	Complexity, Regularity and Non-Linear Behavior in Human Eye Movements: Analyzing the Dynamics of Gaze in Virtual Sailing Programs. 2018 , 10, 528		2
289	Near-Infrared Spectroscopy studies on TBI patients with Modified Multiscale Entropy analysis. 2018 , 2018, 2853-2856		2
288	Comparison of the Effectiveness of AICA-WT Technique in Discriminating Vascular Dementia EEGs. 2018 ,		3
287	Quantitative Assessment of Cerebellar Ataxia With Kinematic Sensing During Rhythmic Tapping. 2018 , 2018, 1098-1101		6
286	Complexity of Wake Electroencephalography Correlates With Slow Wave Activity After Sleep Onset. <i>Frontiers in Neuroscience</i> , 2018 , 12, 809	5.1	5
285	Refined Generalized Multivariate Multiscale Fuzzy Entropy: A Preliminary Study on Multichannel Physiological Complexity During Postural Changes. 2018 ,		1
284	Complexity Matching: Restoring the Complexity of Locomotion in Older People Through Arm-in-Arm Walking. <i>Frontiers in Physiology</i> , 2018 , 9, 1766	4.6	18
283	Multiscale Distribution Entropy Analysis of Short-Term Heart Rate Variability. <i>Entropy</i> , 2018 , 20,	2.8	11
282	The complexity-entropy causality plane based on multiscale power spectrum entropy of financial time series. 2018 , 28, 123120		2
281	Amplitude- and Fluctuation-Based Dispersion Entropy. <i>Entropy</i> , 2018 , 20,	2.8	67
280	The Relation Between White Matter Microstructure and Network Complexity: Implications for Processing Efficiency. 2018 , 12, 43		5
279	EEG Multiscale Complexity in Schizophrenia During Picture Naming. <i>Frontiers in Physiology</i> , 2018 , 9, 12134.6	4.6	24
278	Detrended fluctuation analysis in a simple spreadsheet as a tool for teaching fractal physiology. 2018 , 42, 493-499		7
277	Diminished heart rate complexity in adolescent girls: a sign of vulnerability to anxiety disorders?. 2018 , 31, 375-386		7
276	An entropy approach for evaluating adaptive motor learning processes while walking with unstable footwear. 2018 , 60, 48-56		1
275	Heart rate differences between symptomatic and asymptomatic Brugada syndrome patients at night. 2018 , 39, 065002		3

274	Differential Entropy Preserves Variational Information of Near-Infrared Spectroscopy Time Series Associated With Working Memory. 2018 , 12, 33		9
273	A Strategy to Reduce Bias of Entropy Estimates in Resting-State fMRI Signals. <i>Frontiers in Neuroscience</i> , 2018 , 12, 398	5.1	11
272	Changes in the Complexity of Heart Rate Variability with Exercise Training Measured by Multiscale Entropy-Based Measurements. <i>Entropy</i> , 2018 , 20,	2.8	8
271	Coarse-Graining Approaches in Univariate Multiscale Sample and Dispersion Entropy. <i>Entropy</i> , 2018 , 20,	2.8	31
270	Multivariate Matching Pursuit Decomposition and Normalized Gabor Entropy for Quantification of Preictal Trends in Epilepsy. <i>Entropy</i> , 2018 , 20,	2.8	4
269	Assessing sustainability in North America's ecosystems using criticality and information theory. 2018 , 13, e0200382		7
268	Towards understanding the complexity of cardiovascular oscillations: Insights from information theory. 2018 , 98, 48-57		19
267	Proposed mechanisms of relative bradycardia. 2018 , 119, 63-67		10
266	Modeling Aging and Age-Associated Pathology in Zebrafish. 2018 , 335-349		
265	Cardiac and gait rhythms in healthy younger and older adults during treadmill walking tasks. 2019 , 31, 367-375		4
264	Cardiovascular assessment of supportive doctor-patient communication using multi-scale and multi-lag analysis of heartbeat dynamics. 2019 , 57, 123-134		4
263	WITHDRAWN: Multiscale analysis in time series. 2019 , 251-274		
262	Fuzzy Entropy Metrics for the Analysis of Biomedical Signals: Assessment and Comparison. 2019 , 7, 104833-104847		11
261	A complexity measure for heart rate signals. 2019 , 533, 122054		
260	Probabilistic divergence of permutations for nonlinearity detection. 2019 , 532, 121802		5
259	Effects of controlling parameter on symbolic nonlinear complexity detection. 2019 , 528, 121405		2
258	Cumulative Tsallis entropy based on power spectrum of financial time series. 2019 , 29, 103118		2
257	Fractal properties in sensorimotor variability unveil internal adaptations of the organism before symptomatic functional decline. <i>Scientific Reports</i> , 2019 , 9, 15736	4.9	9

256	Relationship between muscle metabolic rate and muscle torque complexity during fatiguing intermittent isometric contractions in humans. 2019 , 7, e14240		5
255	The critical role of respiratory sinus arrhythmia on temporal cardiac dynamics. 2019 , 127, 1733-1741		1
254	Next Steps in Wearable Technology and Community Ambulation in Multiple Sclerosis. 2019 , 19, 80		18
253	Short communication: Assessment of disbudding pain in dairy calves using nonlinear measures of heart rate variability. 2019 , 102, 8410-8416		7
252	Nonlinear heart rate variability biomarkers for gastric cancer severity: A pilot study. <i>Scientific Reports</i> , 2019 , 9, 13833	4.9	18
251	Multifractals and Chronic Diseases of the Central Nervous System. 2019 ,		2
250	Multi-Lag Analysis of Symbolic Entropies on EEG Recordings for Distress Recognition. 2019 , 13, 40		13
249	Airflow Pattern Complexity in Asbestos-Exposed Workers: Effect of Smoking and Diagnostic Accuracy. 2019 , 737-743		
248	Multichannel Complexity Index (MCI) for a multi-organ physiological complexity assessment. 2019 , 530, 121543		7
247	Multiscale Entropy Quantifies the Differential Effect of the Medium Embodiment on Older Adults Prefrontal Cortex during the Story Comprehension: A Comparative Analysis. <i>Entropy</i> , 2019 , 21,	2.8	4
246	The Biology of Senescence. 2019 ,		
245	Vagal contributions to fetal heart rate variability: an omics approach. 2019 , 40, 065004		13
244	Entropy Analysis for the Evaluation of Respiratory Changes Due to Asbestos Exposure and Associated Smoking. <i>Entropy</i> , 2019 , 21,	2.8	1
243	On the Statistical Properties of Multiscale Permutation Entropy: Characterization of the Estimator's Variance. <i>Entropy</i> , 2019 , 21,	2.8	6
242	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	4.9	10
241	Fatigue-Mediated Loss of Complexity is Contraction-Type Dependent in Vastus Lateralis Electromyographic Signals. 2019 , 7,		4
240	Novel gridded descriptors of poincaré plot for analyzing heartbeat interval time-series. 2019 , 109, 280-289		11
239	Variability of Cardiac Electromechanical Delay With Application to the Noninvasive Detection of Coronary Artery Disease. 2019 , 7, 53115-53124		5

238	Multiscale Entropy Analysis of Page Views: A Case Study of Wikipedia. <i>Entropy</i> , 2019 , 21,	2.8	1
237	Role of time scales and topology on the dynamics of complex networks. 2019 , 29, 033119		2
236	BOLD signal variability and complexity in children and adolescents with and without autism spectrum disorder. 2019 , 36, 100630		19
235	Physiological complexity of gait is decreased in individuals with chronic stroke. 2019 , 22, 658-663		2
234	Equal heartbeat intervals and their effects on the nonlinearity of permutation-based time irreversibility in heart rate. 2019 , 383, 1764-1771		12
233	Multiscale information storage of linear long-range correlated stochastic processes. 2019 , 99, 032115		10
232	Multifractality of posture modulates multisensory perception of stand-on-ability. 2019 , 14, e0212220		8
231	Spectral entropy indicates electrophysiological and hemodynamic changes in drug-resistant epilepsy - A multimodal MREG study. 2019 , 22, 101763		12
230	Ventilatory pattern variability as a biometric for severity of acute lung injury in rats. 2019 , 265, 161-171		4
229	EEG characteristics of children with attention-deficit/hyperactivity disorder. 2019 , 406, 444-456		22
228	Multifractal Study of Parkinson's and Huntington's Diseases with Human Gait Data. 2019 , 117-147		1
227	The ADHD effect on the high-dimensional phase space trajectories of EEG signals. 2019 , 121, 39-49		9
226	The Effect of Long-Term Apnea on the Autonomic Nervous System. 2019 ,		
225	CORONARY HEART DISEASE DETECTION USING NONLINEAR FEATURES AND ONLINE SEQUENTIAL EXTREME LEARNING MACHINE. 2019 , 31, 1950046		1
224	Multiscale Permutation Entropy: Statistical Characterization on Autoregressive and Moving Average Processes. 2019 ,		1
223	The application of multiscale joint permutation entropy on multichannel sleep electroencephalography. 2019 , 9, 125214		2
222	Associations of brain entropy (BEN) to cerebral blood flow and fractional amplitude of low-frequency fluctuations in the resting brain. 2019 , 13, 1486-1495		15
221	Changes in functional connectivity dynamics with aging: A dynamical phase synchronization approach. 2019 , 188, 357-368		31

220	Spatial complexity of brain signal is altered in patients with generalized anxiety disorder. 2019 , 246, 387-393	11
219	Heart rate variability changes in major depressive disorder during sleep: Fractal index correlates with BDI score during REM sleep. 2019 , 271, 291-298	7
218	Voluntary control of breathing affects center of pressure complexity during static standing in healthy older adults. 2019 , 68, 488-493	2
217	Stride-time variability is related to sensorimotor cortical activation during forward and backward walking. 2019 , 692, 150-158	6
216	Complexity of electrocortical activity as potential biomarker in untreated Parkinson's disease. 2019 , 126, 167-172	2
215	Changes in EEG multiscale entropy and power-law frequency scaling during the human sleep cycle. 2019 , 40, 538-551	59
214	Surface electromyography after lower level laser therapy application on skeletal muscles in individuals with heart failure. 2019 , 34, 107-114	
213	Heart rate variability: are you using it properly? Standardisation checklist of procedures. 2020 , 24, 91-102	71
212	Non-invasive biomarkers of fetal brain development reflecting prenatal stress: An integrative multi-scale multi-species perspective on data collection and analysis. 2020 , 117, 165-183	16
211	Nonlinear analysis of heart rate variability for evaluating the growing pig stress response to an acute heat episode. 2020 , 14, 379-387	6
210	Combining functional near-infrared spectroscopy and EEG measurements for the diagnosis of attention-deficit hyperactivity disorder. 2020 , 32, 8367-8380	9
209	Analysis of the Movement-Inducing Effects of Music through the Fractality of Head Sway during Standstill. 2020 , 52, 734-749	3
208	Sex differences in adolescents' cardiac reactivity and recovery under acute stress: The importance of nonlinear measures. 2020 , 57, e13488	1
207	Comparison of a portable balance board for measures of persistence in postural sway. 2020 , 100, 109600	3
206	Analysis of the human gait rhythm in Neurodegenerative disease: A multifractal approach using Multifractal detrended cross correlation analysis. 2020 , 540, 123154	0
205	Nonlinear analysis of EEG complexity in episode and remission phase of recurrent depression. 2020 , 29, e1816	12
204	Diagnosing autism spectrum disorder using brain entropy: A fast entropy method. 2020 , 190, 105240	14
203	Intrinsic Complexity of Sympathetic and Parasympathetic Dynamics from HRV series: a Preliminary Study on Postural Changes. 2020 , 2020, 2577-2580	

202	Load Magnitude and Locomotion Pattern Alter Locomotor System Function in Healthy Young Adult Women. 2020 , 8, 582219		6
201	Complexity Analysis on Functional-Near Infrared Spectroscopy Time Series: a Preliminary Study on Mental Arithmetic. 2020 , 2020, 2897-2900		
200	Immersive Virtual Reality to Restore Natural Long-Range Autocorrelations in Parkinson's Disease Patients' Gait During Treadmill Walking. <i>Frontiers in Physiology</i> , 2020 , 11, 572063	4.6	5
199	Power-Law Exponent Modulated Multiscale Entropy: A Complexity Measure Applied to Physiologic Time Series. 2020 , 8, 112725-112734		2
198	A comprehensive scheme for the objective upper body assessments of subjects with cerebellar ataxia. 2020 , 17, 162		6
197	Irregularity Analysis of Sympathetic and Parasympathetic Activity Indices from HRV: A Pilot Study on Postural Changes. 2020 ,		
196	Identification of healthy and pathological heartbeat dynamics based on ECG-waveform using multifractal spectrum. 2020 , 559, 125021		2
195	Detection of coronary artery atherosclerotic disease using novel features from synchrosqueezing transform of phonocardiogram. 2020 , 62, 102055		3
194	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. <i>Entropy</i> , 2020 , 22,	2.8	3
193	fNIRS Complexity Analysis for the Assessment of Motor Imagery and Mental Arithmetic Tasks. <i>Entropy</i> , 2020 , 22,	2.8	0
192	Comparison of symbolization strategies for complexity assessment of spontaneous variability in individuals with signs of cardiovascular control impairment. 2020 , 62, 102128		3
191	Center-of-pressure dynamics of upright standing as a function of sloped surfaces and vision. 2020 , 737, 135334		3
190	Stress Changes the Resting-State Cortical Flow of Information from Distributed to Frontally Directed Patterns. 2020 , 9,		1
189	Entropy and the Brain: An Overview. <i>Entropy</i> , 2020 , 22,	2.8	17
188	Modified multiscale fuzzy entropy: A robust method for short-term physiologic signals. 2020 , 30, 083135		9
187	Haemodynamic activity characterization of resting state networks by fractal analysis and thalamocortical morphofunctional integrity in chronic migraine. 2020 , 21, 112		8
186	Heart Rate Variability in Women with Systemic Lupus Erythematosus: Association with Health-Related Parameters and Effects of Aerobic Exercise. 2020 , 17,		3
185	Influence of Autocorrelated Rhythmic Auditory Stimulations on Parkinson's Disease Gait Variability: Comparison With Other Auditory Rhythm Variabilities and Perspectives. <i>Frontiers in Physiology</i> , 2020 , 11, 601721	4.6	0

184	Optimizing Our Patients' Entropy Production as Therapy? Hypotheses Originating from the Physics of Physiology. <i>Entropy</i> , 2020 , 22,	2.8	1
183	Altered EEG Signal Complexity Induced by Hand Proximity: A Multiscale Entropy Approach. <i>Frontiers in Neuroscience</i> , 2020 , 14, 562132	5.1	2
182	Intra-Day and Inter-Day Reliability of Measurements of the electromyographic signal on masseter and temporal muscles in patients with Down syndrome. <i>Scientific Reports</i> , 2020 , 10, 7477	4.9	5
181	Diagnosis of Attention Deficit Hyperactivity Disorder with combined time and frequency features. 2020 , 40, 927-937		7
180	Entropy-based analysis of rhythmic tapping for the quantitative assessment of cerebellar ataxia. 2020 , 59, 101916		7
179	Multivariate and Multiscale Complexity of Long-Range Correlated Cardiovascular and Respiratory Variability Series. <i>Entropy</i> , 2020 , 22,	2.8	3
178	Multiscale Distribution Entropy Analysis of Heart Rate Variability Using Differential Inter-Beat Intervals. 2020 , 8, 48761-48773		1
177	Model-based estimation of left ventricular pressure and myocardial work in aortic stenosis. 2020 , 15, e0229609		8
176	Biocomplexity and Fractality in the Search of Biomarkers of Aging and Pathology: Mitochondrial DNA Profiling of Parkinson's Disease. 2020 , 21,		5
175	The successful discrimination of depression from EEG could be attributed to proper feature extraction and not to a particular classification method. 2020 , 14, 443-455		23
174	MULTISCALE ENTROPY AND MULTISCALE TIME IRREVERSIBILITY ANALYSIS OF RR TIME SERIES DEPENDING ON AMBIENT TEMPERATURE. 2020 , 20, 2050029		1
173	Effect of Aging and Carotid Atherosclerosis on Multifractality of Dental Pulp Blood Flow Oscillations. 2020 , 46, 358-363		2
172	The Reason Why rTMS and tDCS Are Efficient in Treatments of Depression. 2019 , 10, 2923		2
171	Shannon entropy and quantitative time irreversibility for different and even contradictory aspects of complex systems. 2020 , 116, 014101		9
170	Reduced Complexity in Stroke with Motor Deficits: A Resting-State fMRI Study. 2020 , 434, 35-43		5
169	How Age, Cognitive Function and Gender Affect Bimanual Force Control. <i>Frontiers in Physiology</i> , 2020 , 11, 245	4.6	2
168	Baroreceptor denervation reduces inflammatory status but worsens cardiovascular collapse during systemic inflammation. <i>Scientific Reports</i> , 2020 , 10, 6990	4.9	4
167	Integrated linear and nonlinear trunk dynamics identify residual concussion deficits. 2020 , 729, 134975		4

166	Using the entropy of the corneal pulse signal to distinguish healthy eyes from eyes affected by primary open-angle glaucoma. 2020 , 41, 055011		0
165	Suitability of multiscale entropy for complexity quantification of cardiac rhythms in chronic pathological conditions: a similarity patterns based investigation. 2021 , 80, 7675-7686		1
164	Multiscale Entropy Analysis of Instantaneous Frequency Variation to Overcome the Cross-Over Artifact in Rhythmic EEG. 2021 , 9, 12896-12905		0
163	Inverse sample entropy analysis for stock markets. 2021 , 103, 741-758		1
162	Digital oximetry biomarkers for assessing respiratory function: standards of measurement, physiological interpretation, and clinical use. 2021 , 4, 1		89
161	Multilayer network analyses as a toolkit for measuring social structure. 2021 , 67, 81-99		2
160	Multimodal pathophysiological dataset of gradual cerebral ischemia in a cohort of juvenile pigs. 2021 , 8, 4		3
159	AI and Big Data in Healthcare: Towards a More Comprehensive Research Framework for Multimorbidity. 2021 , 10,		12
158	Resting Heartbeat Complexity Predicts All-Cause and Cardiorespiratory Mortality in Middle- to Older-Aged Adults From the UK Biobank. 2021 , 10, e018483		2
157	Conditional Entropy: A Potential Digital Marker for Stress. <i>Entropy</i> , 2021 , 23,	2.8	3
156	Association of transcranial Doppler blood flow velocity slow waves with delayed cerebral ischemia in patients suffering from subarachnoid hemorrhage: a retrospective study. 2021 , 9, 11		2
155	Brain Dynamics Altered by Photic Stimulation in Patients with Alzheimer's Disease and Mild Cognitive Impairment. <i>Entropy</i> , 2021 , 23,	2.8	1
154	Cross-species transcriptomics uncovers genes underlying genetic accommodation of developmental plasticity in spadefoot toads. 2021 , 30, 2220-2234		2
153	Cognitive Effects of Montelukast: A Pharmacology-EEG Study. 2021 , 11,		0
152	On the design of automatic voice condition analysis systems. Part III: review of acoustic modelling strategies. 2021 , 66, 102049		7
151	Did you know? Using entropy and fractal geometry to quantify fluctuations in physiological outputs. 2021 , e13670		1
150	Decrements in Adolescent Cardiac Complexity During Mother-Adolescent Conflicts. 2021 , 46, 259-270		1
149	Time irreversibility and amplitude irreversibility measures for nonequilibrium processes. 2021 , 96, 105688		4

148	Complexity analysis of the time series using inverse dispersion entropy. 2021 , 105, 499-514		1
147	Life events are associated with elevated heart rate and reduced heart complexity to acute psychological stress. 2021 , 163, 108116		3
146	Restoring Walking Complexity in Older Adults Through Arm-in-Arm Walking: Were Almurad et'al.'s (2018) Results an Artifact?. 2021 , 25, 475-490		
145	Recurrence Quantification Analysis of Gait Rhythm in Patients Affected by Parkinson's Disease. 2021 ,		1
144	Fatigue-induced changes in knee-extensor torque complexity and muscle metabolic rate are dependent on joint angle. 2021 , 121, 3117-3131		2
143	Beyond traditional visual sleep scoring: massive feature extraction and unsupervised clustering of sleep time series.		0
142	Exploring the Dynamics of Week-to-Week Blood Pressure in Nursing Home Residents Before Death. 2021 ,		1
141	Physiological complexity: influence of ageing, disease and neuromuscular fatigue on muscle force and torque fluctuations. 2021 , 106, 2046-2059		3
140	Detecting Pathogen Exposure During the Non-symptomatic Incubation Period Using Physiological Data: Proof of Concept in Non-human Primates. <i>Frontiers in Physiology</i> , 2021 , 12, 691074	4.6	2
139	Hypothalamic structural integrity and temporal complexity of cortical information processing at rest in migraine without aura patients between attacks. <i>Scientific Reports</i> , 2021 , 11, 18701	4.9	1
138	The futility of long-term predictions in bipolar disorder: mood fluctuations are the result of deterministic chaotic processes. 2021 , 9, 30		1
137	Alteration of power law scaling of spontaneous brain activity in schizophrenia. 2021 , 238, 10-19		1
136	Regularity and randomness in ageing: Differences in resting-state EEG complexity measured by largest Lyapunov exponent. 2021 , 1, 100054		2
135	Theoretical and methodological issues in serial correlation analysis. 2013 , 782, 127-48		14
134	Transforming Monitoring and Improving Care with Variability-Derived Clinical Decision Support. 2018 , 73-82		1
133	Nonlinear Analysis of Physiological Time Series. 2009 , 307-333		9
132	Analysis of Major Adverse Cardiac Events with Entropy-Based Complexity. 2010 , 261-272		1
131	Effect of Spinal Cord Injury on Nonlinear Complexity of Skin Blood Flow Oscillations. 2011 , 345-355		2

130	A Clinico-Mathematical Model of Aging. 2010 , 59-65	1
129	Detecting pathogen exposure during the non-symptomatic incubation period using physiological data.	7
128	A Review of Theoretical Perspectives in Cognitive Science on the Presence of 1/f Scaling in Coordinated Physiological and Cognitive Processes. 2014 , 2014, 1-17	25
127	Determining rhythmicity and determinism of temperature curves in septic and non-septic critically ill patients through chronobiological and recurrence quantification analysis: a pilot study. 2019 , 7, 53	5
126	Human behavioral complexity peaks at age 25. 2017 , 13, e1005408	26
125	Continuous multi-parameter heart rate variability analysis heralds onset of sepsis in adults. 2009 , 4, e6642	150
124	The complexity of standing postural control in older adults: a modified detrended fluctuation analysis based upon the empirical mode decomposition algorithm. 2013 , 8, e62585	18
123	Fatigue effect on low-frequency force fluctuations and muscular oscillations during rhythmic isometric contraction. 2014 , 9, e85578	9
122	Age-Related Changes in Electroencephalographic Signal Complexity. 2015 , 10, e0141995	48
121	Electroencephalographic Fractal Dimension in Healthy Ageing and Alzheimer's Disease. 2016 , 11, e0149587	56
120	Discrimination of emotional states from scalp- and intracranial EEG using multiscale Rnyi entropy. 2017 , 12, e0186916	8
119	Fractal analyses reveal independent complexity and predictability of gait. 2017 , 12, e0188711	10
118	Biocomplexity and Fractality in the Search of Biomarkers of Aging and Pathology: Focus on Mitochondrial DNA and Alzheimer's Disease. 2017 , 8, 44-56	9
117	Dinâmica não-linear e exercício físico: conceitos e aplicações. 2007 , 13, 331-335	3
116	Classification of Depression Through Resting-State Electroencephalogram as a Novel Practice in Psychiatry: Review. 2020 , 22, e19548	8
115	The Fractal Primate:. 2014 , 30, 95-119	9
114	Attention deficit/hyperactivity disorder (ADHD) is associated with altered heart rate asymmetry. 2014 , 63, S509-19	9
113	Optimal Variability and Complexity. 2013 , 328-351	3

- 112 Lévy Flights, 1/<i>f </i>; Noise and Self Organized Criticality. **2013**, 04, 337-343 4
- 111 Fractal lacunarity of trabecular bone and magnetic resonance imaging: New perspectives for osteoporotic fracture risk assessment. **2015**, 6, 221-35 18
- 110 Ecosystem antifragility: beyond integrity and resilience. **2020**, 8, e8533 6
- 109 Diminished neuromuscular system adaptability following anterior cruciate ligament injury: Examination of knee muscle force variability and complexity. **2021**, 90, 105513 1
- 108 Encyclopedia of Complexity and Systems Science. **2009**, 1615-1634
- 107 Sudden Death in Epilepsy. **2010**,
- 106 Haptic supplementation and postural control in the elderly: Review and perspectives for assistive technologies. **2011**, 101-117
- 105 Heart Rate Variability Analysis in Ischemic Cardiomyopathy and Aortic Stenosis Patients. **2012**, 325-354
- 104 Analysis of Ventilatory Pattern Variability. **2013**, 79-99
- 103 Emotions and Mood States: Modeling, Elicitation, and Classification. **2014**, 9-21
- 102 Analysis of resting state functional magnetic resonance imaging signal complexity of adult major depressive disorder based on fuzzy approximate entropy. **2016**, 65, 218701 3
- 101 [CORRECTION OF HEART RATE VARIABILITY USING DIAPHRAGMATIC BREATHING MODE BIOFEEDBACK IN HEALTHY PEOPLE.]. **2016**, 62, 66-75 2
- 100 The Effect of Physical Characteristic, Lower Body Muscle Mass, Muscle Strength on Short Physical Performance Test, Walking Daily and Gait Performance in Older Adults. **2017**, 56, 735-745
- 99 Linear and Nonlinear Parametric Models in Heart Rate Variability Analysis. **2017**, 87-116
- 98 The Relation Between White Matter Microstructure and Network Complexity: Implications for Processing Efficiency.
- 97 Assessing sustainability in North America's ecosystems using criticality and information theory. 2
- 96 The Female Heart: Sex Differences in the Dynamics of ECG in Response to Stress.
- 95 Baroreceptor denervation reduces inflammatory status and worsens cardiovascular collapse during systemic inflammation.

94	Complexity of Cardiac Autonomic Modulation in Diabetes Mellitus: A New Technique to Perceive Autonomic Dysfunction. 2019 , 26, 279-291	
93	State Change Probability: A Measure of the Complexity of Cardiac RR Interval Time Series Using Physiological State Change with Statistical Hypothesis Testing.	
92	Chaotic global analysis of heart rate variability following power spectral adjustments during exposure to traffic noise in healthy adult women. 2020 , 25, 3739	0
91	Discriminating cognitive performance using biomarkers extracted from linear and nonlinear analysis of EEG signals by machine learning.	2
90	The Application of Complexity Analysis in Brain Blood-Oxygen Signal. 2021 , 11,	0
89	Classification of Depression Through Resting-State Electroencephalogram as a Novel Practice in Psychiatry: Review (Preprint).	
88	Age-related changes in the fractal dimension of the retinal microvasculature, effects of cardiovascular risk factors and smoking behaviour. 2021 ,	1
87	A novel parameter for nonequilibrium analysis in reconstructed state spaces. 2021 , 153, 111568	0
86	We think what we eat: Animal-based diet influences cerebral and microbiota networks connectivity in early ages. A study case of an indigenous community in Mexico.	
85	SMORASO-DT : A hybrid machine learning classification model to classify individuals based on working memory load in mental arithmetic task.	
84	Spatial variability of low frequency brain signal differentiates brain states. 2020 , 15, e0242330	1
83	Aging Liver: Can Exercise be a Better Way to Delay the Process than Nutritional and Pharmacological Intervention? Focus on Lipid Metabolism. 2020 , 26, 4982-4991	0
82	Effect of three different jaw positions on postural stability during standing. 2015 , 30, 53-7	9
81	Cardiovascular risk and aging: the need for a more comprehensive understanding. 2021 , 18, 462-478	2
80	Excessive and less complex body movement in children with autism during face-to-face conversation: An objective approach to behavioral quantification. 2021 ,	1
79	Neurofeedback Training Based on Motor Imagery Strategies Increases EEG Complexity in Elderly Population.. <i>Entropy</i> , 2021 , 23,	2.8 1
78	Multiscale Increment Entropy: An approach for quantifying the physiological complexity of biomedical time series. 2021 ,	0
77	The Structural Information Potential and Its Application to Document Triage. 2021 , 1-1	0

76	Long term correlation and inhomogeneity of the inverted pendulum sway time-series under the intermittent control paradigm. 2022 , 108, 106198		3
75	Multivariate Classification of Brain Blood-Oxygen Signal Complexity for the Diagnosis of Children with Tourette Syndrome.. 2022 , 59, 1249		
74	Multiscale Entropy Analysis of Retinal Signals Reveals Reduced Complexity in a Mouse Model of Alzheimer's Disease.		
73	Temporal and Spatial Dynamics of EEG Features in Female College Students with Subclinical Depression.. 2022 , 19,		1
72	The multiscale dynamics of beat-to-beat blood pressure fluctuation mediated the relationship between frailty and arterial stiffness in older adults.. 2022 ,		1
71	Sample entropy discriminates balance performance of older cannabis users from non-users.. 2022 , 93, 105593		0
70	Investigation on the Prediction of Cardiovascular Events Based on Multi-Scale Time Irreversibility Analysis. 2021 , 13, 2424		
69	Another Godot who is still not coming: More on biomarkers for depression. <i>Revista De Psiquiatria Y Salud Mental</i> , 2021 ,	2.7	1
68	?????????????????. <i>Scientia Sinica Vitae</i> , 2022 ,	1.4	
67	The Multiscale Dynamics of Beat-to-Beat Blood Pressure Fluctuation Links to Functions in Older Adults.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 833125	5.4	0
66	Postural control strategies are revealed by the complexity of fractional components of COP.. <i>Journal of Neurophysiology</i> , 2022 ,	3.2	2
65	Machine Learning Models and Statistical Complexity to Analyze the Effects of Posture on Cerebral Hemodynamics.. <i>Entropy</i> , 2022 , 24,	2.8	1
64	Dynamical Complexity Fingerprints of Occupation-Dependent Brain Functional Networks in Professional Seafarers.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 830808	5.1	1
63	Progress in Objective Detection of Depression and Online Monitoring of Patients Based on Physiological Complexity.. <i>Frontiers in Psychiatry</i> , 2022 , 13, 828773	5	
62	Comparison of aging effect between cardiac complexity and baroreceptor sensitivity. 2021 ,		
61	The Refined Composite Downsampling Permutation Entropy Is a Relevant Tool in the Muscle Fatigue Study Using sEMG Signals.. <i>Entropy</i> , 2021 , 23,	2.8	0
60	Mitochondrial DNA Profiling by Fractal Lacunarity to Characterize the Senescent Phenotype as Normal Aging or Pathological Aging. <i>Fractal and Fractional</i> , 2022 , 6, 219	3	
59	Improvement of Sympathovagal Balance by Regular Exercise May Counteract the Ageing Process. A Study by the Analysis of QT Variability.. <i>Frontiers in Physiology</i> , 2022 , 13, 880250	4.6	

58	Image_1.eps. 2020 ,		
57	Image_2.eps. 2020 ,		
56	Image_3.eps. 2020 ,		
55	Table_1.DOCX. 2020 ,		
54	Table_1.DOCX. 2018 ,		
53	Table_1.DOCX. 2020 ,		
52	Machine learning techniques versus complexity theory in the cerebral haemodynamics of traumatic brain injury patients. 2021 ,		
51	Decreased Postural Complexity in Overweight to Obese Children and Adolescents: A Cross-Sectional Study.. <i>Frontiers in Human Neuroscience</i> , 2022 , 16, 850548	3.3	
50	More than just statics: Altered complexity of dynamic amplitude of low-frequency fluctuations in the resting brain after stroke. <i>Journal of Neural Engineering</i> ,	5	0
49	Multiscale entropy analysis of retinal signals reveals reduced complexity in a mouse model of Alzheimer's disease. <i>Scientific Reports</i> , 2022 , 12,	4.9	1
48	Heterogeneity of ILC2s in the Lungs. <i>Frontiers in Immunology</i> , 13,	8.4	0
47	Predictive Capacity of Beat-to-Beat Blood Pressure Variability for Cardioautonomic and Vascular Dysfunction in Early Metabolic Challenge. <i>Frontiers in Pharmacology</i> , 13,	5.6	1
46	When heart beats differently in depression: a review of nonlinear HRV measures (Preprint).		1
45	About-Weekly Pattern in the Dynamic Complexity of a Healthy Subject's Cellular Immune Activity: A Biopsychosocial Analysis. <i>Frontiers in Psychiatry</i> , 13,	5	
44	Recognizing the relationship between the groundwater level and hydrological time-series: a case study of the Ardabil Plain. <i>Journal of Water and Climate Change</i> ,	2.3	
43	Another Godot who is still not coming: More on biomarkers for depression. <i>Revista De Psiquiatria Y Salud Mental (English Edition)</i> , 2022 , 15, 153-154	0.2	
42	Multimodal Brain Signal Complexity Predicts Human Intelligence.		
41	Machine Learning Identifies Chronic Low Back Pain Patients from an Instrumented Trunk Bending and Return Test. <i>Sensors</i> , 2022 , 22, 5027	3.8	1

40	Ageing and skeletal muscle force control: current perspectives and future directions. <i>Scandinavian Journal of Medicine and Science in Sports</i> ,	4.6	○
39	Cardio-Hypothalamic-Pituitary Coupling during Rest and in Response to Exercise. 2022 , 24, 1045		○
38	Multiscale Analysis of Runoff Complexity in the Yanhe Watershed. 2022 , 24, 1088		
37	Nonlinear Neural Patterns Are Revealed In High Frequency fNIRS Analysis.		
36	Pressure Injury Link to Entropy of Abdominal Temperature. 2022 , 24, 1127		
35	Correlation between heart rate variability and polysomnography-derived scores of obstructive sleep apnea. 2,		1
34	Usefulness of Surface Electromyography Complexity Analyses to Assess the Effects of Warm-Up and Stretching during Maximal and Sub-Maximal Hamstring Contractions: A Cross-Over, Randomized, Single-Blind Trial. 2022 , 11, 1337		○
33	Postural Sway and Muscle Activity Dynamics of Upright Standing on Sloped Surfaces. 2022 , 26, 591-607		○
32	Ensemble entropy: A low bias approach for data analysis. 2022 , 256, 109876		○
31	Multivariate Pattern Analysis of Entropy estimates in Fast- and Slow-Wave Functional Near Infrared Spectroscopy: A Preliminary Cognitive Stress study. 2022 ,		○
30	Effects of a body manipulation of Japanese martial arts on interpersonal correlation of postural sway. 2022 , 17, e0274294		○
29	Multi-Moment Multiscale Local Sample Entropy and Its Application to Complex Physiological Time Series. 2022 , 32,		○
28	Non-invasive prognostic biomarker of lung cancer patients with brain metastases: Recurrence quantification analysis of heart rate variability. 13,		○
27	Integrative Approach to Rhinosinusitis. 2022 ,		○
26	Mental fatigue decreases complexity: Evidence from multiscale entropy analysis of instantaneous frequency variation in alpha rhythm. 16,		○
25	Brain signal complexity in adults with Down syndrome: Potential application in the detection of mild cognitive impairment. 14,		1
24	A Hypothalamic Mechanism Regulates the Duration of a Migraine Attack: Insights from Microstructural and Temporal Complexity of Cortical Functional Networks Analysis. 2022 , 23, 13238		○
23	Brain Complexity Predicts Response to Adrenocorticotrophic Hormone in Infantile Epileptic Spasms Syndrome: A Retrospective Study.		○

- 22 Altered neuromuscular control in the vastus medialis following anterior cruciate ligament injury: A recurrence quantification analysis of electromyogram recruitment. **2022**, 100, 105798
- 21 Research on the Recognition of Various Muscle Fatigue States in Resistance Strength Training. **2022**, 10, 2292
- 20 When heart beats differently in depression: a review of nonlinear HRV measures (Preprint).
- 19 Relation of gait measures with mild unilateral knee pain during walking using machine learning. **2022**, 12,
- 18 Detection of cardiac arrhythmia patterns in ECG through H ∞ plane. **2022**, 32, 123118
- 17 Neuromotor changes in participants with a concussion history can be detected with a custom smartphone app. **2022**, 17, e0278994
- 16 The use of non-linear tools to analyze the variability of force production as an index of fatigue: A systematic review. 13,
- 15 Heart Rate Complexity and Autonomic Modulation Are Associated with Psychological Response Inhibition in Healthy Subjects. **2023**, 25, 152
- 14 Multifractal Nonlinearity Moderates Feedforward and Feedback Responses to Suprapostural Perturbations. 003151252211491
- 13 Variations induced by the use of unstable surface do not facilitate motor adaptation to a throwing skill. 11, e14434
- 12 Day-night patterns in heart rate variability and complexity: differences with age and cardiopulmonary disease.
- 11 Multimodal Brain Signal Complexity Predicts Human Intelligence. **2023**, 10, ENEURO.0345-22.2022
- 10 Nutritional status and the risk of malnutrition in older adults with chronic kidney disease â implications for low protein intake and nutritional care: A critical review endorsed by ERN-ERA and ESPEN. **2023**,
- 9 Exploring the Interplay between BOLD Signal Variability, Complexity, and Static and Dynamic Functional Brain Network Features during Movie Viewing.
- 8 Deviation distance entropy: A method for quantifying the dynamic features of biomedical time series. **2023**, 168, 113157
- 7 Running gait produces long range correlations: A systematic review. **2023**, 102, 171-179
- 6 Characterization of autonomic states by complex sympathetic and parasympathetic dynamics*. **2023**, 44, 035004
- 5 Ontology (1): The Modern Economics of Death and Its Trade-Offs. **2023**, 331-380

- 4 One-Leg Stance Postural Sway Is Not Benefited by Bicycle Motocross Practice in Elite Riders. **2023**, 8, 25
- 3 The effect of lifelong physical (in)activity on knee extensor force control.
- 2 Use of Sample Entropy to Assess Sub-Maximal Physical Load for Avoiding Exercise-Induced Cardiac Fatigue. **2023**, 13, 3813
- 1 Biological networks and complexity in early-onset motor neuron diseases. 13,