Aneta Stefanovska

List of Publications by Year
in descending order

193	8,168	41258	54797
papers	citations	49 h-index	84 g-index

196	196	196	4228
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	COHERENCE BETWEEN FLUCTUATIONS IN BLOOD FLOW AND OXYGEN SATURATION. , 2022, , 345-356.		1
2	Multiscale Time-resolved Analysis Reveals Remaining Behavioral Rhythms in Mice Without Canonical Circadian Clocks. Journal of Biological Rhythms, 2022, 37, 310-328.	1.4	10
3	Defining the wavelet bispectrum. Applied and Computational Harmonic Analysis, 2021, 51, 171-224.	1.1	8
4	Modelling Oscillating Living Systems: Cell Energy Metabolism as Weighted Networks of Nonautonomous Oscillators. MATRIX Book Series, 2021, , 255-264.	0.2	0
5	Non-asymptotic-time Dynamics. Understanding Complex Systems, 2021, , 111-129.	0.3	2
6	Phase Coherence Between Cardiovascular Oscillations in Malaria: The Basis for a Possible Diagnostic Test. Understanding Complex Systems, 2021, , 401-419.	0.3	0
7	Synchronisation and Non-autonomicity. Understanding Complex Systems, 2021, , 85-110.	0.3	3
8	Stabilization of cyclic processes by slowly varying forcing. Chaos, 2021, 31, 123129.	1.0	7
9	Physics of cellular energy metabolism. Contemporary Physics, 2021, 62, 125-143.	0.8	1
10	Cardiorespiratory interactions during three different temperatures â€“ a case report. , 2020, , .		0
11	Raceâ€specific differences in the phase coherence between blood flow and oxygenation: A simultaneous NIRS, white light spectroscopy and LDF study. Journal of Biophotonics, 2020, 13, e201960131.	1.1	11
12	Relationship between cardiorespiratory phase coherence during hypoxia and genetic polymorphism in humans. Journal of Physiology, 2020, 598, 2001-2019.	1.3	10
13	Modeling Cell Energy Metabolism as Weighted Networks of Non-autonomous Oscillators. Frontiers in Physiology, 2020, 11, 613183.	1.3	8
14	Coupling functions: dynamical interaction mechanisms in the physical, biological and social sciences. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190039.	1.6	17
15	On the suitability of laser-Doppler flowmetry for capturing microvascular blood flow dynamics from darkly pigmented skin. Physiological Measurement, 2019, 40, 074005.	1.2	12
16	Synchronization transitions caused by time-varying coupling functions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190275.	1.6	21
17	Nonautonomous driving induces stability in network of identical oscillators. Physical Review E, 2019, 99, 012309.	0.8	15
18	Human subarachnoid space width oscillations in the resting state. Scientific Reports, 2018, 8, 3057.	1.6	18

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19	Experimental Realization of the Coupling Function Secure Communications Protocol and Analysis of Its Noise Robustness. IEEE Transactions on Information Forensics and Security, 2018, 13, 2591-2601.	4.5	7
20	Stabilization of dynamics of oscillatory systems by nonautonomous perturbation. Physical Review E, 2018, 97, 042209.	0.8	15
21	Surrogate data for hypothesis testing of physical systems. Physics Reports, 2018, 748, 1-60.	10.3	272
22	Recent advances in physiological oscillations. Physiological Measurement, 2017, 38, E1-E7.	1.2	7
23	Coupling functions: Universal insights into dynamical interaction mechanisms. Reviews of Modern Physics, 2017, 89, .	16.4	196
24	Coherence and Coupling Functions Reveal Microvascular Impairment in Treated Hypertension. Frontiers in Physiology, 2017, 8, 749.	1.3	52
25	Neural Cross-Frequency Coupling Functions. Frontiers in Systems Neuroscience, 2017, 11, 33.	1.2	50
26	Noise robustness of communications provided by coupling-function-encryption and dynamical Bayesian inference. , 2017, , .		0
27	Modelling chronotaxicity of cellular energy metabolism to facilitate the identification of altered metabolic states. Scientific Reports, 2016, 6, 29584.	1.6	20
28	Extraction of instantaneous frequencies from ridges in timeâ€“frequency representations of signals. Signal Processing, 2016, 125, 290-303.	2.1	127
29	Alterations in the coupling functions between cortical and cardio-respiratory oscillations due to anaesthesia with propofol and sevoflurane. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150186.	1.6	62
30	Reconstructing Time-Dependent Dynamics. Proceedings of the IEEE, 2016, 104, 223-241.	16.4	43
31	Introduction to Chronotaxic Systems â€“ Systems Far from Thermodynamics Equilibrium that Adjust Their Clocks. Understanding Complex Systems, 2016, , 227-246.	0.3	1
32	Dynamic markers based on blood perfusion fluctuations for selecting skin melanocytic lesions for biopsy. Scientific Reports, 2015, 5, 12825.	1.6	30
33	Nonlinear mode decomposition: A noise-robust, adaptive decomposition method. Physical Review E, 2015, 92, 032916.	0.8	94
34	Detecting Chronotaxic Systems from Single-Variable Time Series with Separable Amplitude and Phase. Entropy, 2015, 17, 4413-4438.	1.1	53
35	Linear and synchrosqueezed timeâ€“frequency representations revisited: Overview, standards of use, resolution, reconstruction, concentration, and algorithms. , 2015, 42, 1-26.		221
36	The discriminatory value of cardiorespiratory interactions in distinguishing awake from anaesthetised states: a randomised observational study. Anaesthesia, 2015, 70, 1356-1368.	1.8	71

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37	Ageing of the couplings between cardiac, respiratory and myogenic activity in humans. , 2015, 2015, 7366-9.		10
38	Maximum amplitude of limit cycles in LiÃ©nard systems. Physical Review E, 2015, 91, 012927.	0.8	2
39	Coupling functions in networks of oscillators. New Journal of Physics, 2015, 17, 035002.	1.2	65
40	A tutorial on time-evolving dynamical Bayesian inference. European Physical Journal: Special Topics, 2014, 223, 2685-2703.	1.2	35
41	Action of the sympathetic and parasympathetic nervous system on cardiovascular dynamics revealed by blocking drugs. , 2014, , .		0
42	Homogeneous delays in the Kuramoto model with time-variable parameters. Physical Review E, 2014, 90, 052903.	0.8	4
43	Cardiorespiratory coupling functions, synchronization and ageing. , 2014, , .		2
44	Coupling Functions Enable Secure Communications. Physical Review X, 2014, 4, .	2.8	25
45	Chronotaxic systems with separable amplitude and phase dynamics. Physical Review E, 2014, 89, 012922.	0.8	14
46	Discerning non-autonomous dynamics. Physics Reports, 2014, 542, 297-368.	10.3	108
47	The effects of time-varying breathing on human neurophysiological and cardiovascular mechanisms. , 2014, , .		0
48	Generalized chronotaxic systems: Time-dependent oscillatory dynamics stable under continuous perturbation. Physical Review E, 2014, 90, 032921.	0.8	10
49	Inverse approach to chronotaxic systems for single-variable time series. Physical Review E, 2014, 89, 032904.	0.8	18
50	Dynamical inference: Where phase synchronization and generalized synchronization meet. Physical Review E, 2014, 89, 062909.	0.8	20
51	Glassy states and super-relaxation in populations of coupled phase oscillators. Nature Communications, 2014, 5, 4118.	5.8	49
52	Understanding ageing: biological and social perspectives. , 2014, , 25-76.		0
53	Impaired cerebrovascular reactivity after acute traumatic brain injury can be detected by wavelet phase coherence analysis of the intracranial and arterial blood pressure signals. Journal of Clinical Monitoring and Computing, 2013, 27, 375-383.	0.7	34
54	Chronotaxic Systems: A New Class of Self-Sustained Nonautonomous Oscillators. Physical Review Letters, 2013, 111, 024101.	2.9	66

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55	Stationary and Traveling Wave States of the Kuramoto Model with an Arbitrary Distribution of Frequencies and Coupling Strengths. Physical Review Letters, 2013, 110, 064101.	2.9	69
56	Characterizing an ensemble of interacting oscillators: The mean-field variability index. Physical Review E, 2013, 87, 012905.	0.8	14
57	Evolution of cardiorespiratory interactions with age. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20110622.	1.6	95
58	Modelling the anesthetized brain with ensembles of neuronal and astrocytic oscillators. , 2013, , .		0
59	Introducing time-varying parameters in the Kuramoto model for brain dynamics. , 2013, , .		0
60	Mean-field and mean-ensemble frequencies of a system of coupled oscillators. Physical Review E, 2013, 87, .	0.8	42
61	Time-frequency methods and voluntary ramped-frequency breathing: a powerful combination for exploration of human neurophysiological mechanisms. Journal of Applied Physiology, 2013, 115, 1806-1821.	1.2	26
62	Discussion of â€œTime-frequency Techniques in Biomedical Signal Analysis: A Tutorial Review of Similarities and Differencesâ€• Methods of Information in Medicine, 2013, 52, 297-307.	0.7	20
63	Coupled Nonautonomous Oscillators. Lecture Notes in Mathematics, 2013, , 163-197.	0.1	3
64	Discussion of "time-frequency techniques in biomedical signal analysis: a tutorial review of similarities and differences". Methods of Information in Medicine, 2013, 52, 297-307.	0.7	5
65	Application of an Instrumented Tracer in an Abrasion Mill for Rock Abrasion Studies. Strojniski Vestnik/Journal of Mechanical Engineering, 2012, 58, 263-270.	0.6	8
66	Time series analysis of turbulent and non-autonomous systems. , 2012, , .		3
67	Kuramoto model with time-varying parameters. Physical Review E, 2012, 86, 046212.	0.8	53
68	COHERENCE BETWEEN FLUCTUATIONS IN BLOOD FLOW AND OXYGEN SATURATION. Fluctuation and Noise Letters, 2012, 11, 1240013.	1.0	65
69	FLUCTUATIONS AND INTERACTIONS BETWEEN BRAIN WAVES DURING DEEP AND SHALLOW ANESTHESIA. Fluctuation and Noise Letters, 2012, 11, 1240018.	1.0	2
70	THE KURAMOTO MODEL SUBJECT TO A FLUCTUATING ENVIRONMENT: APPLICATION TO BRAINWAVE DYNAMICS. Fluctuation and Noise Letters, 2012, 11, 1240011.	1.0	2
71	Dynamical Bayesian inference of time-evolving interactions: From a pair of coupled oscillators to networks of oscillators. Physical Review E, 2012, 86, 061126.	0.8	50
72	Comment on â€œInference with minimal Gibbs free energy in information field theoryâ€• Physical Review E, 2012, 85, 033101; discussion 033102.	0.8	3

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73	Testing for time-localized coherence in bivariate data. Physical Review E, 2012, 85, 046205.	0.8	75
74	Inference of Time-Evolving Coupled Dynamical Systems in the Presence of Noise. Physical Review Letters, 2012, 109, 024101.	2.9	131
75	Human sympathetic outflows to skin and muscle target organs fluctuate concordantly over a wide range of timeâ€varying frequencies. Journal of Physiology, 2012, 590, 363-375.	1.3	28
76	Oscillatory dynamics of vasoconstriction and vasodilation identified by time-localized phase coherence. Physics in Medicine and Biology, 2011, 56, 3583-3601.	1.6	120
77	Basal sympathetic activity to the microcirculation in tetraplegic man revealed by wavelet transform of laser Doppler flowmetry. Microvascular Research, 2011, 81, 313-318.	1.1	14
78	Reproducibility of LDF blood flow measurements: Dynamical characterization versus averaging. Microvascular Research, 2011, 82, 274-276.	1.1	17
79	Detecting the harmonics of oscillations with time-variable frequencies. Physical Review E, 2011, 83, 016206.	0.8	30
80	Investigation of skin vasoreactivity and blood flow oscillations in hypertensive patients. Journal of Hypertension, 2011, 29, 1569-1576.	0.3	56
81	Extension of the Kuramoto model to encompass time variability in neuronal synchronization and brain dynamics. BMC Neuroscience, 2011, 12, .	0.8	0
82	Nonlinear dynamics of cardiovascular ageing. Physics Reports, 2010, 488, 51-110.	10.3	315
83	Detecting couplings between interacting oscillators with time-varying basic frequencies: Instantaneous wavelet bispectrum and information theoretic approach. Physical Review E, 2010, 81, 036207.	0.8	47
84	Physics of brain dynamics: Fokkerâ€“Planck analysis reveals changes in EEG Î´â€“Î¸ interactions in anÃ¦sthesia. New Journal of Physics, 2009, 11, 103051.	1.2	20
85	Intrinsic dynamics of heart regulatory systems on short timescales: from experiment to modelling. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P01016.	0.9	5
86	Competition between noise and coupling in the induction of synchronisation. Europhysics Letters, 2009, 88, 30005.	0.7	22
87	Pulse transit times to the capillary bed evaluated by laser Doppler flowmetry. Physiological Measurement, 2009, 30, 245-260.	1.2	14
88	Dynamics of blood oxygenation gives better insight into tissue hypoxia than averaged values. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H1224-H1226.	1.5	10
89	â€˜Soap, cells and statistics â€“ random patterns in two dimensionsâ€™ (1984) by D. Weaire and N. Rivier. Contemporary Physics, 2009, 50, 197-197.	0.8	0
90	Asymmetry-induced effects in coupled phase-oscillator ensembles: Routes to synchronization. Physical Review E, 2009, 79, 046210.	0.8	22

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91	Diverse routes to oscillation death in a coupled-oscillator system. Europhysics Letters, 2009, 85, 38008.	0.7	33
92	The effect of low-frequency oscillations on cardio-respiratory synchronization. European Physical Journal B, 2008, 65, 425-433.	0.6	37
93	Nonlinear Relationship between Level of Blood Flow and Skin Temperature for Different Dynamics of Temperature Change. Biophysical Journal, 2008, 94, L78-L80.	0.2	33
94	Neuronal Synchrony during Anesthesia: A Thalamocortical Model. Biophysical Journal, 2008, 95, 2722-2727.	0.2	52
95	Low-frequency blood flow oscillations in congestive heart failure and after Î²1-blockade treatment. Microvascular Research, 2008, 76, 224-232.	1.1	95
96	Phase coupling in the cardiorespiratory interaction. IET Systems Biology, 2008, 2, 48-54.	0.8	15
97	Skin Blood Flow and Its Oscillatory Components in Patients with Acute Myocardial Infarction. Journal of Vascular Research, 2008, 45, 164-172.	0.6	24
98	Routes to synchrony between asymmetrically interacting oscillator ensembles. Physical Review E, 2008, 78, 025201.	0.8	19
99	Direction of Coupling from Phases of Interacting Oscillators: A Permutation Information Approach. Physical Review Letters, 2008, 100, 084101.	2.9	100
100	High-order synchronization, transitions, and competition among Arnold tongues in a rotator under harmonic forcing. Physical Review E, 2008, 77, 056203.	0.8	10
101	Commentary on Viewpoint: The human cutaneous circulation as a model of generalized microvascular function. Journal of Applied Physiology, 2008, 105, 387-387.	1.2	0
102	Wavelet bispectral analysis for the study of interactions among oscillators whose basic frequencies are significantly time variable. Physical Review E, 2007, 76, 046221.	0.8	22
103	Modeling high-order synchronization epochs and transitions in the cardiovascular system. , 2007, 6802, 179.		0
104	Fluctuations in a coupled-oscillator model of the cardiovascular system. , 2007, , .		1
105	The cardiorespiratory interaction: a nonlinear stochastic model and its synchronization properties. , 2007, , .		0
106	The Effects of General Anesthesia on Human Skin Microcirculation Evaluated by Wavelet Transform. Anesthesia and Analgesia, 2007, 105, 1012-1019.	1.1	81
107	Continuous wavelet transform of laser-Doppler signals from facial microcirculation reveals vasomotion asymmetry. Microvascular Research, 2007, 74, 45-50.	1.1	19
108	The cardio-respiratory couplings observed in the LDF signal using wavelet bispectrum. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4072-5.	0.5	2

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109	Importance of wavelet analysis in laser Doppler flowmetry time series. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4064-7.	0.5	14
110	Interactions between cardiac, respiratory and EEG-Î´ oscillations in rats during anaesthesia. Journal of Physiology, 2007, 580, 315-326.	1.3	105
111	Incipient cardiovascular autonomic imbalance revealed by wavelet analysis of heart rate variability in Type 2 diabetic patients. Diabetic Medicine, 2007, 24, 18-26.	1.2	28
112	Coupled Oscillatros: Complex But Not Complicated Cardiovascular and Brain Interactions. IEEE Engineering in Medicine and Biology Magazine, 2007, 26, 25-29.	1.1	105
113	Coupled oscillators: Complex but not complicated cardiovascular and brain interactions. , 2006, 2006, 437-40.		11
114	Macro- and microcirculation in the lower extremitiesâ€"Possible relationship. Diabetes Research and Clinical Practice, 2006, 73, 166-173.	1.1	30
115	Low-frequency oscillations of the laser Doppler perfusion signal in human skin. Microvascular Research, 2006, 72, 120-127.	1.1	305
116	Human Skin Microcirculation after Brachial Plexus Block Evaluated by Wavelet Transform of the Laser Doppler Flowmetry Signal. Anesthesiology, 2006, 105, 478-484.	1.3	62
117	Left-right asymmetry of the facial microvascular control. Clinical Autonomic Research, 2006, 16, 58-60.	1.4	18
118	Coupled oscillators: Complex but not complicated cardiovascular and brain interactions. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
119	Quantitative assessment of oscillatory components in blood circulation: classification of the effect of aging, diabetes, and acute myocardial infarction. , 2005, 5692, 163.		3
120	Nonlinear dynamics of congestive heart failure (Invited Paper). , 2005, 5841, 133.		0
121	Brachial plexus blockade impairs sympathetic activity and endothelial function in human skin microcirculation, evaluated by wavelet transform. European Journal of Anaesthesiology, 2005, 22, 99.	0.7	0
122	Fault diagnosis of vacuum cleaner motors. Control Engineering Practice, 2005, 13, 177-187.	3.2	13
123	Lyapunov Exponents of Laser Doppler Flowmetry Signals in Healthy and Type 1 Diabetic Subjects. Annals of Biomedical Engineering, 2005, 33, 1574-1581.	1.3	2
124	â€œ1/f Spectraâ€• Noise, Chaotic Dynamics â€" Or Phase Coupled Oscillators?. AIP Conference Proceedings, 2005, , .	0.3	0
125	Stochastic Dynamics of AnÃ¦sthesia. AIP Conference Proceedings, 2005, , .	0.3	0
126	Interactions between cardiac, respiratory, and brain activity in humans. , 2005, , .		1

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127	Fragmentation of erythrocyte aggregates by low intensity laser heating. Journal of Optics, 2005, 7, S308-S317.	1.5	1
128	Inference of a Nonlinear Stochastic Model of the Cardiorespiratory Interaction. Physical Review Letters, 2005, 94, 098101.	2.9	79
129	Nonlinear statistical modeling and model discovery for cardiorespiratory data. Physical Review E, 2005, 72, 021905.	0.8	18
130	INFERENCE OF SYSTEMS WITH DELAY AND APPLICATIONS TO CARDIOVASCULAR DYNAMICS. Stochastics and Dynamics, 2005, 05, 321-331.	0.6	3
131	Skin Blood Flow in the Upper and Lower Extremities of Diabetic Patients with and without Autonomic Neuropathy. Journal of Vascular Research, 2004, 41, 535-545.	0.6	60
132	Stochastic dynamics of the cardiovascular system. , 2004, , .		0
133	Nonlinear cardio-respiratory interactions revealed by time-phase bispectral analysis. Physics in Medicine and Biology, 2004, 49, 4407-4425.	1.6	63
134	Role of Transdermal Potential Difference During Iontophoretic Drug Delivery. IEEE Transactions on Biomedical Engineering, 2004, 51, 1683-1685.	2.5	6
135	Wavelet Phase Coherence Analysis: Application to Skin Temperature and Blood Flow. Cardiovascular Engineering (Dordrecht, Netherlands), 2004, 4, 89-93.	1.0	132
136	Causality Between the Amplitude and Frequency of Cardiac Oscillations. Cardiovascular Engineering (Dordrecht, Netherlands), 2004, 4, 127-132.	1.0	6
137	Fault diagnosis of a vacuum cleaner motor by means of sound analysis. Journal of Sound and Vibration, 2004, 276, 781-806.	2.1	36
138	Wavelet analysis of blood flow dynamics: effect on the individual oscillatory components of iontophoresis with pharmacologically neutral electrolytes. Physics in Medicine and Biology, 2004, 49, N111-N117.	1.6	14
139	Noise and synchronization on micro and macroscopic scales. , 2004, 5467, 273.		1
140	Enhanced endothelial activity reflected in cutaneous blood flow oscillations of athletes. European Journal of Applied Physiology, 2003, 90, 16-22.	1.2	26
141	Time-phase bispectral analysis. Physical Review E, 2003, 68, 016201.	0.8	36
142	Regulation of human cutaneous circulation evaluated by laser Doppler flowmetry, iontophoresis, and spectral analysis: importance of nitric oxide and prostaglandines. Microvascular Research, 2003, 65, 160-171.	1.1	177
143	Cardiovascular oscillations: in search of a nonlinear parametric model. , 2003, , .		1
144	Involvement of sympathetic nerve activity in skin blood flow oscillations in humans. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1638-H1646.	1.5	210

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145	Direction of coupling from phases of interacting oscillators: An information-theoretic approach. Physical Review E, 2003, 67, 055201.	0.8	218
146	INTERACTIONS AND SYNCHRONIZATION IN THE CARDIOVASCULAR SYSTEM. Fluctuation and Noise Letters, 2003, 03, L167-L176.	1.0	2
147	Cardiovascular Dynamics â€" Multiple Time Scales, Oscillations and Noise. AIP Conference Proceedings, 2003, , .	0.3	0
148	Time-Varying Cardiovascular Oscillations. Solid Mechanics and Its Applications, 2003, , 455-464.	0.1	3
149	Noise and determinism in cardiovascular dynamics. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 69-76.	1.2	23
150	The cardiovascular system as coupled oscillators?. Physiological Measurement, 2001, 22, 535-550.	1.2	67
151	Modelling couplings among the oscillators of the cardiovascular system. Physiological Measurement, 2001, 22, 551-564.	1.2	47
152	Karhunenâ€"LoÃ¨ve decomposition of peripheral blood flow signal. Physica A: Statistical Mechanics and Its Applications, 2000, 280, 587-601.	1.2	16
153	Synchronization and modulation in the human cardiorespiratory system. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 451-461.	1.2	139
154	Reversible Transitions between Synchronization States of the Cardiorespiratory System. Physical Review Letters, 2000, 85, 4831-4834.	2.9	160
155	The contribution of lumbar sympathetic neurones activity to ratâ€™s skin blood flow oscillations. Pflugers Archiv European Journal of Physiology, 2000, 439, r158-r160.	1.3	26
156	Characteristic frequencies of the human blood distribution system. AIP Conference Proceedings, 2000, , .	0.3	9
157	Spatial Synchronization in the Human Cardiovascular System. Progress of Theoretical Physics Supplement, 2000, 139, 270-282.	0.2	29
158	Spectral components of heart rate variability determined by wavelet analysis. Physiological Measurement, 2000, 21, 441-457.	1.2	128
159	The contribution of lumbar sympathetic neurones activity to ratâ€™s skin blood flow oscillations. Pflugers Archiv European Journal of Physiology, 2000, 439, R158-R160.	1.3	1
160	The contribution of lumbar sympathetic neurones activity to rat's skin blood flow oscillations. Pflugers Archiv European Journal of Physiology, 2000, 439, R158-60.	1.3	3
161	Linear and nonlinear analysis of blood flow in healthy subjects and in subjects with Raynaudâ€™s phenomenon. Technology and Health Care, 1999, 7, 225-241.	0.5	4
162	Reconstructing cardiovascular dynamics. Control Engineering Practice, 1999, 7, 161-172.	3.2	18

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163	Wavelet analysis of oscillations in the peripheral blood circulation measured by laser Doppler technique. IEEE Transactions on Biomedical Engineering, 1999, 46, 1230-1239.	2.5	576
164	Physics of the human cardiovascular system. Contemporary Physics, 1999, 40, 31-55.	0.8	223
165	Oscillations in the Human Cutaneous Blood Perfusion Signal Modified by Endothelium-Dependent and Endothelium-Independent Vasodilators. Microvascular Research, 1999, 57, 298-309.	1.1	216
166	Linear and nonlinear analysis of blood flow in healthy subjects and in subjects with Raynaud's phenomenon. Technology and Health Care, 1999, 7, 225-41.	0.5	1
167	Enhanced endothelium-dependent vasodilatation in human skin vasculature induced by physical conditioning. European Journal of Applied Physiology, 1998, 79, 30-36.	1.2	59
168	Nonlinear Dynamics of the Blood Flow Studied by Lyapunov Exponents. Bulletin of Mathematical Biology, 1998, 60, 417-433.	0.9	20
169	Wavelet-based Analysis of Human Blood-flow Dynamics. Bulletin of Mathematical Biology, 1998, 60, 919-935.	0.9	187
170	Spectral Analysis of the Laser Doppler Perfusion Signal in Human Skin before and after Exercise. Microvascular Research, 1998, 56, 173-182.	1.1	152
171	Lyapunov Exponents of Simulated and Measured Quasi-Periodic Flows. Applied and Numerical Harmonic Analysis, 1998, , 479-488.	0.1	2
172	On the overestimation of the correlation dimension. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 235, 24-30.	0.9	26
173	Local and Global Lyapunov Exponents of Blood Flow. Open Systems and Information Dynamics, 1997, 4, 435-456.	0.5	4
174	Correlation Integral and Frequency Analysis of Cardiovascular Functions. Open Systems and Information Dynamics, 1997, 4, 457-478.	0.5	51
175	Therapeutic neural effects of electrical stimulation. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1996, 4, 218-230.	1.4	61
176	Revealing oscillators calculation of the dimension of attractors. Open Systems and Information Dynamics, 1995, 3, 149-178.	0.5	2
177	Low frequency pulsed current and pressure ulcer healing. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1994, 2, 225-233.	1.4	32
178	Continuous low amplitude direct current stimulation of the crushed peripheral nerve accelerates the early recovery of choline acetyltransferase but not of acetylcholinesterase activity in fast and slow muscles. Restorative Neurology and Neuroscience, 1994, 7, 89-94.	0.4	4
179	Treatment of chronic wounds by means of electric and electromagnetic fields. Medical and Biological Engineering and Computing, 1993, 31, 213-220.	1.6	67
180	Muscle force recovery after continuous direct current stimulation of a crushed nerve. Restorative Neurology and Neuroscience, 1992, 4, 331-338.	0.4	1

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181	Biochemical, morphological, and functional changes during peripheral nerve regeneration. Molecular and Chemical Neuropathology, 1991, 15, 143-157.	1.0	21
182	Human skeletal muscle: Phasic type of electrical stimulation increases its contractile speed. Annals of Biomedical Engineering, 1990, 18, 479-490.	1.3	6
183	FES and spasticity. IEEE Transactions on Biomedical Engineering, 1989, 36, 738-745.	2.5	58
184	Chronic electrical stimulation for the modification of spasticity in hemiplegic patients. Scandinavian Journal of Rehabilitation Medicine Supplement, 1988, 17, 115-21.	0.0	4
185	Electrical stimulation for control of paralysis and therapy of abnormal movements. Scandinavian Journal of Rehabilitation Medicine Supplement, 1988, 17, 91-7.	0.0	3
186	Rigidity in parkinsonism: characteristics and influences of passive exercise and electrical nerve stimulation. Functional Neurology, 1988, 3, 55-68.	1.3	4
187	Effects of stimulation parameters on modification of spinal spasticity. Medical and Biological Engineering and Computing, 1987, 25, 439-442.	1.6	15
188	Some properties of spastic ankle joint muscles in hemiplegia. Medical and Biological Engineering and Computing, 1986, 24, 19-26.	1.6	16
189	Change in muscle force following electrical stimulation. Dependence on stimulation waveform and frequency. Journal of Rehabilitation Medicine, 1985, 17, 141-6.	1.1	32
190	Self-organization Of Pathological Systems Induced By Electric Currents. , 0, , .		0
191	Lyapunov exponents of blood flow. , 0, , .		0
192	Time-delay feedback control of ferroresonant chaotic oscillations. , 0, , .		3
193	Beyond the Baroreflex: A New Measure of Autonomic Regulation Based on the Time-Frequency Assessment of Variability, Phase Coherence and Couplings. Frontiers in Network Physiology, 0, 2, .	0.8	7