Erik Mosekilde

List of Publications by Year
in descending order

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230	5,585	76196	128067
papers	citations	40 h-index	60 g-index

256	256	256	2626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling the Insulinâ€“Glucose Feedback System: The Significance of Pulsatile Insulin Secretion. Journal of Theoretical Biology, 2000, 207, 361-375.	0.8	176
2	Cluster synchronization modes in an ensemble of coupled chaotic oscillators. Physical Review E, 2001, 63, 036216.	0.8	162
3	Modeling absorption kinetics of subcutaneous injected soluble insulin. Journal of Pharmacokinetics and Pharmacodynamics, 1989, 17, 67-87.	0.6	114
4	Transverse instability and riddled basins in a system of two coupled logistic maps. Physical Review E, 1998, 57, 2713-2724.	0.8	103
5	Co-existing hidden attractors in a radio-physical oscillator system. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 125101.	0.7	102
6	Multistability and hidden attractors in a multilevel DC/DC converter. Mathematics and Computers in Simulation, 2015, 109, 32-45.	2.4	95
7	Absolute and convective instabilities in a one-dimensional Brusselator flow model. Journal of Chemical Physics, 1997, 106, 7609-7616.	1.2	94
8	Stationary space-periodic structures with equal diffusion coefficients. Physical Review E, 1999, 60, 297-301.	0.8	93
9	Absorption kinetics of insulin after subcutaneous administration. European Journal of Pharmaceutical Sciences, 2009, 36, 78-90.	1.9	86
10	Border collision route to quasiperiodicity: Numerical investigation and experimental confirmation. Chaos, 2006, 16, 023122.	1.0	84
11	Deterministic chaos in the beer productionâ€distribution model. System Dynamics Review, 1988, 4, 131-147.	1.1	79
12	Synchronization phenomena in nephronâ€“nephron interaction. Chaos, 2001, 11, 417-426.	1.0	72
13	Bifurcation analysis of nephron pressure and flow regulation. Chaos, 1996, 6, 280-287.	1.0	70
14	Torus birth bifurcations in a DC/DC converter. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 1839-1850.	0.1	66
15	Pattern formation in the bistable Gray-Scott model. Mathematics and Computers in Simulation, 1996, 40, 371-396.	2.4	65
16	Homoclinic bifurcations leading to the emergence of bursting oscillations in cell models. European Physical Journal E, 2000, 3, 205-219.	0.7	65
17	Quasi-periodicity and border-collision bifurcations in a DC-DC converter with pulsewidth modulation. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1047-1057.	0.1	63
18	Role of multistability in the transition to chaotic phase synchronization. Chaos, 1999, 9, 227-232.	1.0	60

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19	Coherent Regimes of Globally Coupled Dynamical Systems. Physical Review Letters, 2003, 90, 054102.	2.9	60
20	Bifurcation structure of a model of bursting pancreatic cells. BioSystems, 2001, 63, 3-13.	0.9	58
21	Role of the Absorbing Area in Chaotic Synchronization. Physical Review Letters, 1998, 80, 1638-1641.	2.9	56
22	Resonant activation in a stochastic Hodgkin-Huxley model: Interplay between noise and suprathreshold driving effects. European Physical Journal B, 2005, 45, 391-397.	0.6	56
23	Localized structures and front propagation in the Lengyel-Epstein model. Physical Review E, 1994, 50, 736-749.	0.8	53
24	Multistability and hidden attractors in an impulsive Goodwin oscillator with time delay. European Physical Journal: Special Topics, 2015, 224, 1519-1539.	1.2	52
25	Bimodal oscillations in nephron autoregulation. Physical Review E, 2002, 66, 061909.	0.8	51
26	Synchronization among mechanisms of renal autoregulation is reduced in hypertensive rats. American Journal of Physiology - Renal Physiology, 2007, 293, F1545-F1555.	1.3	49
27	The interaction of thin-film flow, bacterial swarming and cell differentiation in colonies of Serratia liquefaciens. Journal of Mathematical Biology, 2000, 40, 27-63.	0.8	48
28	Nonlinear mode-interaction in the macroeconomy. Annals of Operations Research, 1992, 37, 185-215.	2.6	47
29	BORDER-COLLISION BIFURCATIONS AND CHAOTIC OSCILLATIONS IN A PIECEWISE-SMOOTH DYNAMICAL SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 2977-3001.	0.7	46
30	Double-wavelet approach to study frequency and amplitude modulation in renal autoregulation. Physical Review E, 2004, 70, 031915.	0.8	46
31	Instabilities and chaos in nonlinear dynamic systems. System Dynamics Review, 1988, 4, 14-55.	1.1	45
32	Stochastic simulation of vertebral trabecular bone remodeling. Bone, 1994, 15, 655-666.	1.4	45
33	Border-collision bifurcations on a two-dimensional torus. Chaos, Solitons and Fractals, 2002, 13, 1889-1915.	2.5	45
34	Border-collision bifurcations in a dynamic management game. Computers and Operations Research, 2006, 33, 464-478.	2.4	45
35	Partial synchronization and clustering in a system of diffusively coupled chaotic oscillators. Mathematics and Computers in Simulation, 2001, 54, 491-508.	2.4	43
36	Bifurcations and chaotic behavior in a simple model of the economic long wave. System Dynamics Review, 1985, 1, 92-110.	1.1	42

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37	Mode locking and spatiotemporal chaos in periodically driven Gunn diodes. Physical Review B, 1990, 41, 2298-2306.	1.1	41
38	Desynchronization of chaos in coupled logistic maps. Physical Review E, 1999, 60, 2817-2830.	0.8	40
39	Loss of synchronization in coupled RÃ¶ssler systems. Physica D: Nonlinear Phenomena, 2001, 154, 26-42.	1.3	40
40	Complex Patterns of Metabolic and Ca2+ Entrainment in Pancreatic Islets by Oscillatory Glucose. Biophysical Journal, 2013, 105, 29-39.	0.2	40
41	Unraveling Cell Processes: Interference Imaging Interwoven with Data Analysis. Journal of Biological Physics, 2006, 32, 191-208.	0.7	39
42	Emergence of quasiperiodicity in symmetrically coupled, identical period-doubling systems. Physical Review E, 1995, 52, 1418-1435.	0.8	37
43	Vascular coupling induces synchronization, quasiperiodicity, and chaos in a nephron tree. Chaos, 2007, 17, 015114.	1.0	37
44	Nonlinear dynamic phenomena in the beer model. System Dynamics Review, 2007, 23, 229-252.	1.1	37
45	Bifurcations and chaos in a generic management model. European Journal of Operational Research, 1988, 35, 80-88.	3.5	36
46	The significance of an erroneous recording of the centre of mandibular rotation in orthognathic surgery. Journal of Cranio-Maxillo-Facial Surgery, 1991, 19, 254-259.	0.7	36
47	Application of wavelet-based tools to study the dynamics of biological processes. Briefings in Bioinformatics, 2006, 7, 375-389.	3.2	36
48	Phaseâ€locking regions in a forced model of slow insulin and glucose oscillations. Chaos, 1995, 5, 193-199.	1.0	34
49	Bifurcations in two coupled RÃ¶ssler systems. Mathematics and Computers in Simulation, 1996, 40, 247-270.	2.4	34
50	Using system dynamics to analyse interactions in duopoly competition. System Dynamics Review, 2000, 16, 113-133.	1.1	34
51	Interference Microscopy under Double-Wavelet Analysis: A New Approach to Studying Cell Dynamics. Physical Review Letters, 2005, 94, 218103.	2.9	34
52	Birth of bilayered torus and torus breakdown in a piecewise-smooth dynamical system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 351, 167-174.	0.9	34
53	Equilibrium-torus bifurcation in nonsmooth systems. Physica D: Nonlinear Phenomena, 2008, 237, 930-936.	1.3	34
54	Torus-Bifurcation Mechanisms in a DC/DC Converter With Pulsewidth-Modulated Control. IEEE Transactions on Power Electronics, 2011, 26, 1270-1279.	5.4	34

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55	One-dimensional map lattices: Synchronization, bifurcations, and chaotic structures. Physical Review E, 1996, 54, 3196-3203.	0.8	31
56	HYPERBOLIC PLYKIN ATTRACTOR CAN EXIST IN NEURON MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 3567-3578.	0.7	31
57	Direct transition from a stable equilibrium to quasiperiodicity in non-smooth systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2237-2246.	0.9	31
58	Empirical indication of economic long waves in aggregate production. European Journal of Operational Research, 1989, 42, 279-293.	3.5	30
59	Multiscality in the dynamics of coupled chaotic systems. Physica A: Statistical Mechanics and Its Applications, 2002, 316, 233-249.	1.2	30
60	Onset of chaos in a single-phase power electronic inverter. Chaos, 2015, 25, 043114.	1.0	29
61	EFFECTS OF A PARAMETER MISMATCH ON THE SYNCHRONIZATION OF TWO COUPLED CHAOTIC OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 2629-2648.	0.7	28
62	Quasiperiodicity and torus breakdown in a power electronic dc/dc converter. Mathematics and Computers in Simulation, 2007, 73, 364-377.	2.4	28
63	Loss of lag synchronization in coupled chaotic systems. Physical Review E, 1999, 60, 6560-6565.	0.8	27
64	COOPERATIVE PHASE DYNAMICS IN COUPLED NEPHRONS. International Journal of Modern Physics B, 2001, 15, 3079-3098.	1.0	27
65	Double-wavelet approach to studying the modulation properties of nonstationary multimode dynamics. Physiological Measurement, 2005, 26, 351-362.	1.2	27
66	Multistability and hidden attractors in a relay system with hysteresis. Physica D: Nonlinear Phenomena, 2015, 306, 6-15.	1.3	27
67	Modeâ€locking and entrainment of endogenous economic cycles. System Dynamics Review, 1995, 11, 177-198.	1.1	26
68	Xâ€RAY DIFFRACTION FROM PIEZOELECTRICALLY AMPLIFIED SHEAR WAVES IN THE 50â€GHz RANGE. Applied Physics Letters, 1971, 18, 330-332.	1.5	25
69	Gene therapy of T helper cells in HIV infection: Mathematical model of the criteria for clinical effect. Bulletin of Mathematical Biology, 1997, 59, 725-745.	0.9	25
70	Scaling features of multimode motions in coupled chaotic oscillators. Chaos, Solitons and Fractals, 2003, 16, 801-810.	2.5	25
71	Synchronization in driven chaotic systems: Diagnostics and bifurcations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 253, 66-74.	0.9	24
72	BIFURCATIONS AND CHAOTIC OSCILLATIONS IN AN AUTOMATIC CONTROL RELAY SYSTEM WITH HYSTERESIS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1193-1231.	0.7	24

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73	Chaotic dynamics from interspike intervals. Physical Review E, 2001, 63, 036205.	0.8	24
74	Multilayered tori in a system of two coupled logistic maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 946-951.	0.9	24
75	Computer simulation of Turing structures in the chlorite-iodide-malonic acid system. Physica Scripta, 1996, 53, 243-251.	1.2	23
76	WAVE-SPLITTING IN THE BISTABLE GRAY-SCOTT MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 1077-1092.	0.7	23
77	Extracting dynamics from threshold-crossing interspike intervals: Possibilities and limitations. Physical Review E, 2000, 61, 5033-5044.	0.8	23
78	Torus Destruction and Chaosâ€“Chaos Intermittency in a Commodity Distribution Chain. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 1225-1242.	0.7	22
79	Transitions from phase-locked dynamics to chaos in a piecewise-linear map. Physical Review E, 2008, 77, 026206.	0.8	22
80	Insulin aspart pharmacokinetics: An assessment of its variability and underlying mechanisms. European Journal of Pharmaceutical Sciences, 2014, 62, 65-75.	1.9	22
81	Parallel computer simulation of nearest-neighbour interaction in a system of nephrons. Parallel Computing, 1989, 12, 113-120.	1.3	21
82	MULTIPLE-ATTRACTOR BIFURCATIONS AND QUASIPERIODICITY IN PIECEWISE-SMOOTH MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1775-1789.	0.7	21
83	Phase synchronized quasiperiodicity in power electronic inverter systems. Physica D: Nonlinear Phenomena, 2014, 268, 14-24.	1.3	21
84	PARTIAL SYNCHRONIZATION IN A SYSTEM OF COUPLED LOGISTIC MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 1051-1066.	0.7	20
85	Noise-Induced Macroscopic Bifurcations in Globally Coupled Chaotic Units. Physical Review Letters, 2004, 92, 254101.	2.9	20
86	NOISE CONTROLLED SYNCHRONIZATION IN POTASSIUM COUPLED NEURAL MODELS. International Journal of Neural Systems, 2007, 17, 105-113.	3.2	20
87	Transcritical loss of synchronization in coupled chaotic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 275, 401-406.	0.9	19
88	Torus breakdown in noninvertible maps. Physical Review E, 2003, 67, 046215.	0.8	19
89	Synchronization of time-continuous chaotic oscillators. Chaos, 2003, 13, 388-400.	1.0	19
90	Analysis of the noise-induced bursting-spiking transition in a pancreaticÎ²-cell model. Physical Review E, 2004, 69, 041910.	0.8	19

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91	New insights offered by a computational model of deep brain stimulation. Journal of Physiology (Paris), 2007, 101, 56-63.	2.1	19
92	Characterizing multimode interaction in renal autoregulation. Physiological Measurement, 2008, 29, 945-958.	1.2	19
93	Technical economic succession and the economic long wave. European Journal of Operational Research, 1986, 25, 27-38.	3.5	18
94	Iterated-map approach to die tossing. Physical Review A, 1990, 42, 4493-4502.	1.0	18
95	Chaotic Synchronization between Coupled Pancreatic Î²-Cells. Progress of Theoretical Physics Supplement, 2000, 139, 164-177.	0.2	18
96	Quantitative Effects of Medium Hardness and Nutrient Availability on the Swarming Motility of Serratia liquefaciens. Bulletin of Mathematical Biology, 2002, 64, 565-587.	0.9	18
97	Role of asymmetric clusters in desynchronization of coherent motion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 302, 171-181.	0.9	18
98	Giant Glial Cell: New Insight Through Mechanism-Based Modeling. Journal of Biological Physics, 2008, 34, 441-457.	0.7	18
99	Excitation block in a nerve fibre model owing to potassium-dependent changes in myelin resistance. Interface Focus, 2011, 1, 86-100.	1.5	18
100	Bioavailability and variability of biphasic insulin mixtures. European Journal of Pharmaceutical Sciences, 2012, 46, 198-208.	1.9	18
101	Chaotic Hierarchy in a Model of Competing Populations. Journal of Theoretical Biology, 1993, 165, 593-607.	0.8	17
102	Phase-modulation laser interference microscopy: an advance in cell imaging and dynamics study. Journal of Biomedical Optics, 2008, 13, 034004.	1.4	17
103	Non-invasive study of nerve fibres using laser interference microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3463-3481.	1.6	17
104	Novel routes to chaos through torus breakdown in non-invertible maps. Physica D: Nonlinear Phenomena, 2009, 238, 589-602.	1.3	17
105	Generators of quasiperiodic oscillations with three-dimensional phase space. European Physical Journal: Special Topics, 2013, 222, 2391-2398.	1.2	17
106	Modelling energy consumption, loss of firmness and enzyme inactivation in an industrial blanching process. Journal of Food Engineering, 1986, 5, 251-267.	2.7	16
107	Phase diagrams for periodically driven Gunn diodes. Physica D: Nonlinear Phenomena, 1993, 66, 143-153.	1.3	16
108	DYNAMICAL SYSTEMS OF DIFFERENT CLASSES AS MODELS OF THE KICKED NONLINEAR OSCILLATOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2001, 11, 1065-1077.	0.7	16

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109	Synchronization of tubular pressure oscillations in interacting nephrons. Chaos, Solitons and Fractals, 2003, 15, 343-369.	2.5	16
110	Coexistence between silent and bursting states in a biophysical Hodgkin-Huxley-type of model. Chaos, 2017, 27, 123101.	1.0	16
111	High-Feedback Operation of Power Electronic Converters. Electronics (Switzerland), 2013, 2, 113-167.	1.8	15
112	Transient current decay in semiconducting ZnO due to the acousto - electric effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 1967, 24, 155-156.	0.9	14
113	Transitions betweenÎ²andÎ³rhythms in neural systems. Physical Review E, 2002, 66, 041901.	0.8	14
114	INTER-PATTERN TRANSITIONS IN A NOISY BURSTING CELL. Fluctuation and Noise Letters, 2004, 04, L521-L533.	1.0	14
115	Role of the driving frequency in a randomly perturbed Hodgkin-Huxley neuron with suprathreshold forcing. European Physical Journal B, 2006, 53, 529-536.	0.6	14
116	Coupling-induced complexity in nephron models of renal blood flow regulation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R997-R1006.	0.9	14
117	Quantification of remodeling parameter sensitivityâ€"assessed by a computer simulation model. Bone, 1996, 19, 505-511.	1.4	13
118	Comment on â€œFlow-distributed oscillations: Stationary chemical waves in a reacting flowâ€• Physical Review E, 2000, 62, 2992-2993.	0.8	13
119	Oscillator clustering in a resource distribution chain. Chaos, 2005, 15, 013704.	1.0	13
120	TORUS BIFURCATIONS IN MULTILEVEL CONVERTER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2343-2356.	0.7	13
121	Bifurcation structure of the -type period-doubling transition. Physica D: Nonlinear Phenomena, 2012, 241, 488-496.	1.3	13
122	Border collisions inside the stability domain of a fixed point. Physica D: Nonlinear Phenomena, 2016, 321-322, 1-15.	1.3	13
123	Hyperchaotic Phenomena in Dynamic Decision Making. NATO ASI Series Series B: Physics, 1991, , 397-420.	0.2	13
124	Bifurcation sequence in a simple model of migratory dynamics. System Dynamics Review, 1988, 4, 208-217.	1.1	12
125	A model of enhancement and inhibition of HIV infection of monocytes by antibodies against HIV. Journal of Biological Physics, 1993, 19, 133-145.	0.7	12
126	Nonlinear dynamics of a vectored thrust aircraft. Physica Scripta, 1996, T67, 176-183.	1.2	12

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127	Bifurcation analysis of the Henon map. Discrete Dynamics in Nature and Society, 2000, 5, 203-221.	0.5	12
128	Transcritical riddling in a system of coupled maps. Physical Review E, 2001, 63, 036201.	0.8	12
129	NEURAL SYNCHRONIZATION VIA POTASSIUM SIGNALING. International Journal of Neural Systems, 2006, 16, 99-109.	3.2	12
130	From multi-layered resonance tori to period-doubled ergodic tori. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 2534-2538.	0.9	12
131	PHASE CHAOS IN THE DISCRETE KURAMOTO MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1811-1823.	0.7	12
132	Bistability in autoimmune diseases. Autoimmunity, 2011, 44, 256-260.	1.2	12
133	Multistability and Torus Reconstruction in a DCâ€“DC Converter With Multilevel Control. IEEE Transactions on Industrial Informatics, 2013, 9, 1937-1946.	7.2	12
134	Compensation in pancreatic beta-cell function in subjects with glucokinase mutations. Diabetes, 1994, 43, 718-723.	0.3	12
135	Quantum theory of acoustoelectric interaction. Physical Review B, 1974, 9, 682-689.	1.1	11
136	Invariant manifolds and cluster synchronization in a family of locally coupled map lattices. Discrete Dynamics in Nature and Society, 2000, 4, 245-256.	0.5	11
137	Nonlinear characteristics of randomly excited transonic flutter. Mathematics and Computers in Simulation, 2002, 58, 385-405.	2.4	11
138	CATASTROPHE THEORETIC CLASSIFICATION OF NONLINEAR OSCILLATORS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1241-1266.	0.7	11
139	Cascades of alternating pitchfork and flip bifurcations in H-bridge inverters. Physica D: Nonlinear Phenomena, 2017, 345, 27-39.	1.3	11
140	Unfolding of the riddling bifurcation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 262, 355-360.	0.9	10
141	Phase multistability of self-modulated oscillations. Physical Review E, 2002, 66, 036224.	0.8	10
142	Effects of microscopic disorder on the collective dynamics of globally coupled maps. Physica D: Nonlinear Phenomena, 2005, 205, 25-40.	1.3	10
143	DYNAMICS AND SYNCHRONIZATION OF NOISE PERTURBED ENSEMBLES OF PERIODICALLY ACTIVATED NEURON CELLS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2807-2815.	0.7	10
144	Coexisting tori and torus bubbling in non-smooth systems. Physica D: Nonlinear Phenomena, 2011, 240, 397-405.	1.3	10

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145	Trapping Effects and Acoustoelectric Current Saturation in ZnO Single Crystals. Physical Review B, 1970, 2, 3234-3248.	1.1	9
146	Homoclinic Bifurcation as a Mechanism of Chaotic Phase Synchronization. Physical Review Letters, 1999, 83, 1942-1945.	2.9	9
147	CHAOTIC HIERARCHY IN HIGH DIMENSIONS. International Journal of Modern Physics B, 2000, 14, 2511-2527.	1.0	9
148	Transition to synchronized chaos via suppression of the natural dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 283, 195-200.	0.9	9
149	Complex phase dynamics in coupled bursters. Physical Review E, 2003, 67, 016215.	0.8	9
150	Formation and destruction of multilayered tori in coupled map systems. Chaos, 2008, 18, 037124.	1.0	9
151	Synchronization of period-doubling oscillations in vascular coupled nephrons. Chaos, 2011, 21, 033128.	1.0	9
152	A Comprehensive Approach to Benefitâ€“Risk Assessment in Drug Development. Basic and Clinical Pharmacology and Toxicology, 2012, 111, 65-72.	1.2	9
153	Deterministic analysis of the probability machine. Physica Scripta, 1995, 51, 35-45.	1.2	8
154	Computerized determination of 3-D connectivity density in human iliac crest bone biopsies. Mathematics and Computers in Simulation, 1996, 40, 411-423.	2.4	8
155	Re-Entrant Hexagons and Locked Turingâ€“Hopf Fronts in the CIMA Reaction. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1003-1012.	0.7	8
156	Particle in the Brusselator model with flow. Physica D: Nonlinear Phenomena, 2002, 163, 80-88.	1.3	8
157	Mechanism-Based Modeling of Complex Biomedical Systems. Basic and Clinical Pharmacology and Toxicology, 2005, 96, 212-224.	1.2	8
158	Two-mode dynamics in pulse-modulated control systems. Annual Reviews in Control, 2010, 34, 62-70.	4.4	8
159	C-type period-doubling transition in nephron autoregulation. Interface Focus, 2011, 1, 132-142.	1.5	8
160	Minimal model for Ca2+-dependent oscillations in excitable cells. Journal of Theoretical Biology, 1992, 156, 309-326.	0.8	7
161	Devil's staircase and chaos from macroeconomic mode interaction. Journal of Economic Dynamics and Control, 1993, 17, 759-769.	0.9	7
162	Anomalous Statistics for Type-III Intermittency. Open Systems and Information Dynamics, 1997, 4, 393-405.	0.5	7

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163	Two-parameter analysis of the scaling behavior at the onset of chaos: tricritical and pseudo-tricritical points. Physica A: Statistical Mechanics and Its Applications, 2001, 300, 367-385.	1.2	7
164	Two-mode chaos and its synchronization properties. Physical Review E, 2005, 72, 056208.	0.8	7
165	MULTIPLE ATTRACTOR BIFURCATIONS IN A PIECEWISE-SMOOTH MAP WITH QUASIPERIODICITY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 427-432.	0.4	7
166	Multimode dynamics in a network with resource mediated coupling. Chaos, 2008, 18, 015114.	1.0	7
167	Hyperbolic chaotic attractor in amplitude dynamics of coupled self-oscillators with periodic parameter modulation. Physical Review E, 2011, 84, 016228.	0.8	7
168	Transient heat flow from an epitaxial layer into the substrate. Proceedings of the IEEE, 1971, 59, 1030-1032.	16.4	6
169	Riddled basins of attraction for synchronized type-I intermittency. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 238, 358-364.	0.9	6
170	Gene therapy of T helper cells in HIV infection: Mathematical model of the criteria for clinical effect. Bulletin of Mathematical Biology, 1997, 59, 725-745.	0.9	5
171	Dynamical system approach to phyllotaxis. Physical Review E, 2000, 61, 354-365.	0.8	5
172	Coupled map lattices with complex order parameter. Physica A: Statistical Mechanics and Its Applications, 2001, 291, 299-316.	1.2	5
173	Scaling properties of bicritical dynamics in unidirectionally coupled period-doubling systems in the presence of noise. Physical Review E, 2001, 64, 066207.	0.8	5
174	Synchronization between interacting ensembles of globally coupled chaotic maps. Physica D: Nonlinear Phenomena, 2004, 199, 45-60.	1.3	5
175	Numerical experiments with MG continuation algorithms. Applied Numerical Mathematics, 2006, 56, 844-861.	1.2	5
176	Using wavelet analysis to detect the influence of low frequency magnetic fields on human physiological tremor. Physiological Measurement, 2007, 28, 321-333.	1.2	5
177	Phase chaos and multistability in the discrete Kuramoto model. Nonlinear Oscillations, 2008, 11, 229-241.	0.1	5
178	Exploring the Behaviour of a Centralised Supply Chain at Draeger Safety UK. International Journal of Information Systems and Supply Chain Management, 2009, 2, 34-54.	0.6	5
179	The effect of L-NAME on intra- and inter-nephron synchronization. European Journal of Pharmaceutical Sciences, 2009, 36, 39-50.	1.9	5
180	Advancing systems medicine and therapeutics through biosimulation. Interface Focus, 2011, 1, 3-6.	1.5	5

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181	Acoustoelectric interaction in degenerately doped piezoelectric semiconductors. Journal of Applied Physics, 1972, 43, 4957-4963.	1.1	4
182	Synchronization in ensembles of coupled maps with a major element. Discrete Dynamics in Nature and Society, 2005, 2005, 239-255.	0.5	4
183	Low-Dimensional Chaos in Populations of Strongly-Coupled Noisy Maps. Progress of Theoretical Physics Supplement, 2006, 161, 27-42.	0.2	4
184	Rhythmic components in renal autoregulation: Nonlinear modulation phenomena. Chaos, Solitons and Fractals, 2009, 41, 930-938.	2.5	4
185	Stochastic switching in systems with rare and hidden attractors. European Physical Journal: Special Topics, 2018, 227, 747-756.	1.2	4
186	Magnetoacoustoelectric Effects in InP. Journal of Applied Physics, 1971, 42, 925-929.	1.1	3
187	Entrainment in a disaggregated economic long wave model. Open Systems and Information Dynamics, 1995, 3, 255-274.	0.5	3
188	Parametric transverse patterns in broad aperture lasers. Dynamical Systems, 1998, 13, 319-336.	0.7	3
189	Bifurcation analysis of spiral growth processes in plants. Mathematics and Computers in Simulation, 1999, 49, 41-56.	2.4	3
190	Absorption Kinetics of Insulin Mixtures after Subcutaneous Administration. , 2011, , 329-359.		3
191	Dataâ€Driven Assessment of the Association of Polymorphisms in 5â€Fluorouracil Metabolism Genes with Outcome in Adjuvant Treatment of Colorectal Cancer. Basic and Clinical Pharmacology and Toxicology, 2012, 111, 189-197.	1.2	3
192	Quantum anomaly in acoustic parametric interaction. Journal of Physics C: Solid State Physics, 1974, 7, 4281-4292.	1.5	2
193	Bifurcation structure of an optical ring cavity. Physica Scripta, 1996, T67, 167-175.	1.2	2
194	Synchronization in systems with bimodal dynamics. Physica A: Statistical Mechanics and Its Applications, 2006, 371, 280-292.	1.2	2
195	Simulation in Clinical Drug Development. , 0, , 1-26.		2
196	Chaos in Pulse-Width Modulated Control Systems. , 0, , 771-791.		2
197	CHARACTERIZATION OF RENAL BLOOD FLOW REGULATION BASED ON WAVELET COEFFICIENTS. Fluctuation and Noise Letters, 2010, 09, 259-270.	1.0	2
198	An integrated frame-of-reference for modelling management systems. Human Systems Management, 2006, 25, 247-254.	0.5	2

#	Article	IF	Citations
199	Nonlinear Interactions in the Economy. Lecture Notes in Economics and Mathematical Systems, 1992, , 35-61.	0.3	2
200	Acoustoelectric Gain in Magnetic Fields. Journal of Applied Physics, 1972, 43, 1284-1285.	1.1	1
201	Comments on the Theory of Unimodal Maps. Open Systems and Information Dynamics, 1997, 4, 379-392.	0.5	1
202	Type-II intermittency in a class of two coupled one-dimensional maps. Discrete Dynamics in Nature and Society, 2000, 5, 233-245.	0.5	1
203	Extracting dynamics from return times. AIP Conference Proceedings, 2000, , .	0.3	1
204	CHAOTIC SYNCHRONIZATION AND ANTISYNCHRONIZATION IN COUPLED SINE MAPS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2161-2177.	0.7	1
205	Optimizing Temporal Patterns of Anticancer Drug Delivery by Simulations of a Cell Cycle Automaton. , 0, , 273-297.		1
206	Preface. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3437-3444.	1.6	1
207	On the structure of phase synchronized chaos. Chaos, Solitons and Fractals, 2013, 46, 28-37.	2.5	1
208	A classifier driven approach to find biomarkers for affective disorders from transcription profiles in blood. Advances in Precision Medicine, 2016, 1, 34.	0.1	1
209	Simulating the Energy Requirements of a Country's Industrial Production. Simulation, 1981, 37, 109-118.	1.1	0
210	Mode-locking and chaos in a model of two coupled thermostatically controlled radiators. Open Systems and Information Dynamics, 1995, 3, 201-213.	0.5	0
211	Dynamics of a food web model of an aquatic ecosystem. Open Systems and Information Dynamics, 1995, 3, 237-254.	0.5	0
212	SHIFT OF THE SYNCHRONIZED STATE IN A SYSTEM OF TWO COUPLED NONINDENTICAL OSCILLATORS. , 2000, , .		0
213	Chaotic synchronization in a system of two coupled Î²-cells. AIP Conference Proceedings, 2000, , .	0.3	0
214	Border-Collision Bifurcations on a Two-Dimensional Torus and Transitions to Chaos in a Control System with Pulse-Width Modulation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 155-160.	0.4	0
215	Preface. Journal of Biological Physics, 2006, 32, 183-189.	0.7	0
216	Border-Collision Bifurcations in a DC/DC Converter with Multilevel Pulse-Width Modulation. , 2006, , .		0

#	Article	IF	Citations
217	Constructing a Virtual Proteasome. , 0, , 373-400.		0
218	TRANSITION FROM A STABLE NODE EQUILIBRIUM TO QUASIPERIODICITY IN PIECEWISE-SMOOTH SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 218-223.	0.4	0
219	Silicon Cell Models: Construction, Analysis, and Reduction. , 0, , 401-423.		0
220	Biosimulation and Its Contribution to the Three Rs. , 0, , 485-496.		0
221	Complexity in Neurology and Psychiatry. Journal of Biological Physics, 2008, 34, 249-252.	0.7	0
222	A study of renal blood flow regulation using the discrete wavelet transform. Proceedings of SPIE, 2010, , .	0.8	0
223	Modeling in Biomedical Research and Health Care. , 2011, , 1-18.		0
224	Concepts in Mechanism Based Modeling. , 2011, , 19-41.		0
225	The Approach to Model Building. , 2011, , 43-68.		0
226	The transition to chaotic phase synchronization. , 2012, , .		0
227	Disrupted bandcount doubling in an AC-DC boost PFC circuit modeled by a time varying map. Journal of Physics: Conference Series, 2016, 692, 012003.	0.3	0
228	Application of Dynamic Analysis in a Centralised Supply Chain. , 2011, , 33-53.		0
229	Economic Cycles in a Behavioral Disequilibrium Perspective. Lecture Notes in Economics and Mathematical Systems, 1997, , 29-49.	0.3	0
230	Application of Dynamic Analysis in a Centralised Supply Chain. , 0, , 1638-1658.		0