Michael C Mackey

List of Publications by Year
in descending order

183 papers	9,780 citations	41258 49 h-index	54797 84 g-index
192 all docs	192 docs citations	192 times ranked	4350 citing authors

#	Article	IF	Citations
1	Chaos, Fractals, and Noise. Applied Mathematical Sciences (Switzerland), 1994, , .	0.4	1,014
2	PATHOLOGICAL CONDITIONS RESULTING FROM INSTABILITIES IN PHYSIOLOGICAL CONTROL SYSTEMS*. Annals of the New York Academy of Sciences, 1979, 316, 214-235.	1.8	280
3	A mathematical model of hematopoiesisâ€"I. Periodic chronic myelogenous leukemia. Journal of Theoretical Biology, 2005, 237, 117-132.	0.8	234
4	Cyclical Neutropenia and Other Periodic Hematological Disorders: A Review of Mechanisms and Mathematical Models. Blood, 1998, 92, 2629-2640.	0.6	209
5	Feedback Regulation in the Lactose Operon: A Mathematical Modeling Study and Comparison with Experimental Data. Biophysical Journal, 2003, 84, 2841-2851.	0.2	201
6	Dynamical Diseases. Annals of the New York Academy of Sciences, 1987, 504, 16-32.	1.8	181
7	Hematopoietic Model with Moving Boundary Condition and State Dependent Delay: Applications in Erythropoiesis. Journal of Theoretical Biology, 1998, 190, 135-146.	0.8	165
8	Age-structured and two-delay models for erythropoiesis. Mathematical Biosciences, 1995, 128, 317-346.	0.9	163
9	Commodity price fluctuations: Price dependent delays and nonlinearities as explanatory factors. Journal of Economic Theory, 1989, 48, 497-509.	0.5	154
10	The dynamic origin of increasing entropy. Reviews of Modern Physics, 1989, 61, 981-1015.	16.4	145
11	A simple model for phase locking of biological oscillators. Journal of Mathematical Biology, 1979, 7, 339-352.	0.8	144
12	Oscillations in cyclical neutropenia: new evidence based on mathematical modeling. Journal of Theoretical Biology, 2003, 223, 283-298.	0.8	141
13	Noise and critical behavior of the pupil light reflex at oscillation onset. Physical Review A, 1990, 41, 6992-7005.	1.0	133
14	Chaos in neurobiology. IEEE Transactions on Systems, Man, and Cybernetics, 1983, SMC-13, 790-798.	0.9	128
15	A mathematical model of hematopoiesis: II. Cyclical neutropenia. Journal of Theoretical Biology, 2005, 237, 133-146.	0.8	120
16	Cell kinetic status of haematopoietic stem cells. Cell Proliferation, 2001, 34, 71-83.	2.4	113
17	Dynamic hematological disease: a review. Journal of Mathematical Biology, 2009, 58, 285-322.	0.8	112
18	Dynamic regulation of the tryptophan operon: A modeling study and comparison with experimental data. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 1364-1369.	3.3	109

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19	The dynamics of production and destruction: Analytic insight into complex behavior. Journal of Mathematical Biology, 1982, 16, 75-101.	0.8	107
20	Solution moment stability in stochastic differential delay equations. Physical Review E, 1995, 52, 3366-3376.	0.8	99
21	Solution multistability in firstâ€order nonlinear differential delay equations. Chaos, 1993, 3, 167-176.	1.0	92
22	Periodic chronic myelogenous leukaemia: spectral analysis of blood cell counts and aetiological implications. British Journal of Haematology, 1999, 104, 336-345.	1.2	89
23	Influence of Catabolite Repression and Inducer Exclusion on the Bistable Behavior of the lac Operon. Biophysical Journal, 2004, 86, 1282-1292.	0.2	87
24	Contribution to the study of periodic chronic myelogenous leukemia. Comptes Rendus - Biologies, 2004, 327, 235-244.	0.1	86
25	Origin of Bistability in the lac Operon. Biophysical Journal, 2007, 92, 3830-3842.	0.2	86
26	Consumer memory and price fluctuations in commodity markets: An integrodifferential model. Journal of Dynamics and Differential Equations, 1989, 1, 299-325.	1.0	83
27	Modelling transcriptional feedback loops: the role of Gro/TLE1 in Hes1 oscillations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 1155-1170.	1.6	83
28	Occurrence of periodic oscillations in the differential blood counts of congenital, idiopathic, and cyclical neutropenic patients before and during treatment with G-CSF. Experimental Hematology, 1999, 27, 401-409.	0.2	81
29	Sufficient conditions for stability of linear differential equations with distributed delay. Discrete and Continuous Dynamical Systems - Series B, 2001, 1, 233-256.	0.5	81
30	Global stability in a delayed partial differential equation describing cellular replication. Journal of Mathematical Biology, 1994, 33, 89-109.	0.8	80
31	Dynamics and bistability in a reduced model of thelacoperon. Chaos, 2004, 14, 279-292.	1.0	80
32	The dynamics of recurrent inhibition. Journal of Mathematical Biology, 1984, 19, 211-225.	0.8	77
33	Globally asymptotic properties of proliferating cell populations. Journal of Mathematical Biology, 1984, 19, 43-62.	0.8	76
34	Complex dynamics and bifurcations in neurology. Journal of Theoretical Biology, 1989, 138, 129-147.	0.8	76
35	Long Period Oscillations in aG0Model of Hematopoietic Stem Cells. SIAM Journal on Applied Dynamical Systems, 2005, 4, 312-332.	0.7	76
36	Analysis of Cell Kinetics Using a Cell Division Marker: Mathematical Modeling of Experimental Data. Biophysical Journal, 2003, 84, 3414-3424.	0.2	74

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37	Cyclical Neutropenia and the Peripheral Control of White Blood Cell Production. Journal of Theoretical Biology, 1998, 192, 167-181.	0.8	73
38	Periodic auto-immune hemolytic anemia: An induced dynamical disease. The Bulletin of Mathematical Biophysics, 1979, 41, 829-834.	0.5	72
39	Mackey-Glass equation. Scholarpedia Journal, 2010, 5, 6908.	0.3	69
40	Unstable dynamics of a periodically driven oscillator in the presence of noise. Journal of Theoretical Biology, 1980, 86, 455-475.	0.8	66
41	Stochastic Differential Delay Equation, Moment Stability, and Application to Hematopoietic Stem Cell Regulation System. SIAM Journal on Applied Mathematics, 2007, 67, 387-407.	0.8	65
42	A Mathematical Model of Granulopoiesis Incorporating the Negative Feedback Dynamics and Kinetics of G-CSF/Neutrophil Binding and Internalization. Bulletin of Mathematical Biology, 2016, 78, 2304-2357.	0.9	64
43	Modeling Complex Neutrophil Dynamics in the Grey Collie. Journal of Theoretical Biology, 2000, 204, 505-519.	0.8	63
44	Organelle formation from pinocytotic elements in neuntes of cultured sympathetic ganglia. Journal of Neurocytology, 1972, 1, 311-340.	1.6	60
45	Regulation of Platelet Production: The Normal Response to Perturbation and Cyclical Platelet Disease. Journal of Theoretical Biology, 2000, 206, 585-603.	0.8	60
46	Quantitative approaches to the study of bistability in the lac operon of Escherichia coli. Journal of the Royal Society Interface, 2008, 5, S29-39.	1.5	60
47	Resonance in Periodic Chemotherapy: A Case Study of Acute Myelogenous Leukemia. Journal of Theoretical Biology, 2001, 209, 113-130.	0.8	59
48	Timeâ€™s Arrow: The Origins of Thermodynamic Behavior. , 1992, , .		59
49	Dynamic Behavior of Stochastic Gene Expression Models in the Presence of Bursting. SIAM Journal on Applied Mathematics, 2013, 73, 1830-1852.	0.8	54
50	Mathematical model for G-CSF administration after chemotherapy. Journal of Theoretical Biology, 2009, 257, 27-44.	0.8	51
51	Minimizing therapeutically induced anemia. Journal of Mathematical Biology, 1981, 13, 149-158.	0.8	50
52	Relaxation Oscillations in a Class of Delay Differential Equations. SIAM Journal on Applied Mathematics, 2002, 63, 299-323.	0.8	50
53	Bifurcations in a white-blood-cell production model. Comptes Rendus - Biologies, 2004, 327, 201-210.	0.1	49
54	Cost-effective G-CSF therapy strategies for cyclical neutropenia: Mathematical modelling based hypotheses. Journal of Theoretical Biology, 2006, 238, 754-763.	0.8	48

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55	Deterministic Brownian motion: The effects of perturbing a dynamical system by a chaotic semi-dynamical system. Physics Reports, 2006, 422, 167-222.	10.3	45
56	A new criterion for the global stability of simultaneous cell replication and maturation processes. Journal of Mathematical Biology, 1999, 38, 195-219.	0.8	44
57	Hematopoietic dynamics in grey collies. Experimental Hematology, 1999, 27, 1139-1148.	0.2	42
58	Molecular distributions in gene regulatory dynamics. Journal of Theoretical Biology, 2011, 274, 84-96.	0.8	42
59	Could dark energy be measured in the lab?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 605, 295-300.	1.5	41
60	The segmentation clock in mice: Interaction between the Wnt and Notch signalling pathways. Journal of Theoretical Biology, 2007, 248, 37-47.	0.8	39
61	Periodic Oscillations of Blood Cell Populations in Chronic Myelogenous Leukemia. SIAM Journal on Mathematical Analysis, 2006, 38, 166-187.	0.9	38
62	Universality classes for asymptotic behavior of relaxation processes in systems with dynamical disorder: Dynamical generalizations of stretched exponential. Journal of Mathematical Physics, 1996, 37, 2279-2306.	0.5	37
63	Multistability in an age-structured model of hematopoiesis: Cyclical neutropenia. Journal of Theoretical Biology, 2011, 270, 143-153.	0.8	37
64	Neutrophil dynamics during concurrent chemotherapy and G-CSF administration: Mathematical modelling guides dose optimisation to minimise neutropenia. Journal of Theoretical Biology, 2015, 385, 77-89.	0.8	37
65	Understanding cyclical thrombocytopenia: A mathematical modeling approach. Journal of Theoretical Biology, 2008, 251, 297-316.	0.8	35
66	Neutropenia in Barth syndrome: characteristics, risks, and management. Current Opinion in Hematology, 2019, 26, 6-15.	1.2	35
67	A Model for the Regulation of Mammalian Platelet Production. Annals of the New York Academy of Sciences, 1987, 504, 280-282.	1.8	34
68	Generating functional approach to multichannel parallel relaxation with application to the problem of direct energy transfer in fractal systems with dynamic disorder. Journal of Mathematical Physics, 1995, 36, 1834-1853.	0.5	34
69	The rate of apoptosis in post mitotic neutrophil precursors of normal and neutropenic humans. Cell Proliferation, 2003, 36, 27-34.	2.4	34
70	Neutrophil dynamics after chemotherapy and G-CSF: The role of pharmacokinetics in shaping the response. Journal of Theoretical Biology, 2012, 315, 97-109.	0.8	34
71	Cell division and the stability of cellular populations. Journal of Mathematical Biology, 1999, 38, 241-261.	0.8	32
72	A Proposed Mechanism for the Interaction of the Segmentation Clock and the Determination Front in Somitogenesis. PLoS ONE, 2008, 3, e1561.	1.1	32

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73	Noise and statistical periodicity. Physica D: Nonlinear Phenomena, 1987, 28, 143-154.	1.3	31
74	Noise-induced global asymptotic stability. Journal of Statistical Physics, 1990, 60, 735-751.	0.5	31
75	Modeling operon dynamics: the tryptophan and lactose operons as paradigms. Comptes Rendus - Biologies, 2004, 327, 211-224.	0.1	31
76	Neutrophil dynamics in response to chemotherapy and G-CSF. Journal of Theoretical Biology, 2012, 293, 111-120.	0.8	31
77	Oscillatory modes in a nonlinear second-order differential equation with delay. Journal of Dynamics and Differential Equations, 1990, 2, 423-449.	1.0	30
78	Understanding, Treating and Avoiding Hematological Disease: Better Medicine Through Mathematics?. Bulletin of Mathematical Biology, 2015, 77, 739-757.	0.9	30
79	Dynamic Haematological Disorders of Stem Cell Origin. , 1979, , 373-409.		29
80	Dynamics and density evolution in piecewise deterministic growth processes. Annales Polonici Mathematici, 2008, 94, 111-129.	0.2	28
81	Noise and stability in differential delay equations. Journal of Dynamics and Differential Equations, 1994, 6, 395-426.	1.0	27
82	The Kinetics of Mechanically Coupled Myosins Exhibit Group Size-Dependent Regimes. Biophysical Journal, 2013, 105, 1466-1474.	0.2	27
83	Normal and pathological dynamics of platelets in humans. Journal of Mathematical Biology, 2017, 75, 1411-1462.	0.8	27
84	Statistical cycling in coupled map lattices. Physical Review E, 1994, 50, 843-856.	0.8	26
85	Propagating fronts, chaos and multistability in a cell replication model. Chaos, 1996, 6, 477-492.	1.0	26
86	The statistical dynamics of recurrent biological events. Journal of Mathematical Biology, 1992, 30, 775.	0.8	25
87	Nonequilibrium fluctuationâ€“dissipation relations for independent random rate processes with dynamical disorder. Journal of Mathematical Physics, 1996, 37, 803.	0.5	25
88	Cyclical Thrombocytopenia: Characterization by Spectral Analysis and a Review. Journal of Theoretical Medicine, 2000, 2, 81-91.	0.5	25
89	Bifurcation and Bistability in a Model of Hematopoietic Regulation. SIAM Journal on Applied Dynamical Systems, 2007, 6, 378-394.	0.7	24
90	Adiabatic reduction of a model of stochastic gene expression with jump Markov process. Journal of Mathematical Biology, 2014, 68, 1051-1070.	0.8	24

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91	Generating functional approach to space- and time-dependent colored noise. Physical Review E, 1994, 50, 798-821.	0.8	23
92	G-CSF treatment of canine cyclical neutropenia: A comprehensive mathematical model. Experimental Hematology, 2007, 35, 898-907.	0.2	23
93	Stochastic perturbation of dynamical systems: The weak convergence of measures. Journal of Mathematical Analysis and Applications, 1989, 138, 232-248.	0.5	22
94	High frequency spikes in long period blood cell oscillations. Journal of Mathematical Biology, 2006, 53, 499-519.	0.8	22
95	Deterministic Brownian motion generated from differential delay equations. Physical Review E, 2011, 84, 041105.	0.8	22
96	Measurability of vacuum fluctuations and dark energy. Physica A: Statistical Mechanics and Its Applications, 2007, 379, 101-110.	1.2	21
97	Bifurcations and traveling waves in a delayed partial differential equation. Chaos, 1992, 2, 231-244.	1.0	20
98	Phase transitions in networks of chaotic elements with short and long range interactions. Physica D: Nonlinear Phenomena, 1995, 81, 177-203.	1.3	20
99	Propagation of population pulses and fronts in a cell replication problem: Non-locality and dependence on the initial function. Physica D: Nonlinear Phenomena, 1995, 86, 373-395.	1.3	20
100	Recurrent Inhibitory Dynamics: The Role of State-Dependent Distributions of Conduction Delay Times. Journal of Theoretical Biology, 2002, 216, 31-50.	0.8	20
101	Asymptotic periodicity and banded chaos. Physica D: Nonlinear Phenomena, 1991, 53, 295-318.	1.3	19
102	Coupled map lattices as models of deterministic and stochastic differential delay equations. Physical Review E, 1995, 52, 115-128.	0.8	19
103	Neural ensemble coding and statistical periodicity: Speculations on the operation of the mind's eye. Journal of Physiology (Paris), 2000, 94, 489-503.	2.1	18
104	Dynamic behavior in mathematical models of the tryptophan operon. Chaos, 2001, 11, 261.	1.0	18
105	The limiting dynamics of a bistable molecular switch with and without noise. Journal of Mathematical Biology, 2016, 73, 367-395.	0.8	17
106	The extinction of slowly evolving dynamical systems. Journal of Mathematical Biology, 1980, 10, 333-345.	0.8	16
107	Dynamic behaviour of the B12riboswitch. Physical Biology, 2005, 2, 29-35.	0.8	16
108	ELECTROMAGNETIC DARK ENERGY. International Journal of Modern Physics D, 2008, 17, 71-80.	0.9	16

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109	The utility of simple mathematical models in understanding gene regulatory dynamics. In Silico Biology, 2015, 12, 23-53.	0.4	16
110	What Has Mathematics Done for Biology?. Bulletin of Mathematical Biology, 2015, 77, 735-738.	0.9	16
111	Stability properties of proliferatively coupled cell replication models. Acta Biotheoretica, 1991, 39, 1-14.	0.7	15
112	Coupling induced statistical cycling in two diffusively coupled maps. Physica D: Nonlinear Phenomena, 1994, 72, 324-342.	1.3	15
113	Simple Mathematical Models of Gene Regulatory Dynamics. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , .	0.1	15
114	Asymptotic stability of densities in coupled map lattices. Physica D: Nonlinear Phenomena, 1995, 80, 1-17.	1.3	14
115	Evolution of probability densities in stochastic coupled map lattices. Physical Review E, 1995, 52, 1403-1417.	0.8	14
116	The timing of cyclic cytotoxic chemotherapy can worsen neutropenia and neutrophilia. British Journal of Clinical Pharmacology, 2021, 87, 687-693.	1.1	14
117	Noise-induced asymptotic periodicity in a piecewise linear map. Journal of Statistical Physics, 1991, 63, 585-612.	0.5	13
118	A Hopf-like equation and perturbation theory for differential delay equations. Journal of Statistical Physics, 1992, 69, 1025-1046.	0.5	12
119	Transitions and kinematics of reaction-convection fronts in a cell population model. Physica D: Nonlinear Phenomena, 1995, 80, 120-139.	1.3	12
120	Molecular, metabolic, and genetic control: An introduction. Chaos, 2001, 11, 81.	1.0	12
121	Origins of oscillation patterns in cyclical thrombocytopenia. Journal of Theoretical Biology, 2019, 462, 432-445.	0.8	12
122	Periodic hematological disorders: Quintessential examples of dynamical diseases. Chaos, 2020, 30, 063123.	1.0	12
123	Passage over a random energy barrier with dynamical disorder. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 292-299.	0.9	11
124	Stochastic renormalization-group approach to space-dependent supercritical branched chain processes. Physical Review E, 1995, 51, 3104-3119.	0.8	11
125	Mathematical model of GAL regulon dynamics in Saccharomyces cerevisiae. Journal of Theoretical Biology, 2012, 293, 219-235.	0.8	11
126	Cyclic thrombocytopenia with statistically significant neutrophil oscillations. Clinical Case Reports (discontinued), 2018, 6, 1347-1352.	0.2	11

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127	Asymptotic Similarity and Malthusian Growth in Autonomous and Nonautonomous Populations. Journal of Mathematical Analysis and Applications, 1994, 187, 548-566.	0.5	10
128	Understanding and Treating Cytopenia Through Mathematical Modeling. Advances in Experimental Medicine and Biology, 2014, 844, 279-302.	0.8	10
129	Observations on the Pathophysiology and Mechanisms for Cyclic Neutropenia. Mathematical Modelling of Natural Phenomena, 2006, 1, 45-69.	0.9	9
130	Noise and conditional entropy evolution. Physica A: Statistical Mechanics and Its Applications, 2006, 365, 360-382.	1.2	9
131	Molecular Mechanical Differences between Isoforms of Contractile Actin in the Presence of Isoforms of Smooth Muscle Tropomyosin. PLoS Computational Biology, 2013, 9, e1003273.	1.5	9
132	Cyclical Neutropenia and Other Periodic Hematological Disorders: A Review of Mechanisms and Mathematical Models. Blood, 1998, 92, 2629-2640.	0.6	9
133	Temporal Behavior of the Conditional and Gibbsâ€™ Entropies. Journal of Statistical Physics, 2006, 124, 1443-1470.	0.5	8
134	Dynamic stability versus thermodynamic performance in a simple model for a Brownian motor. Physical Review E, 2008, 78, 061122.	0.8	8
135	Characterizing Chemotherapy-Induced Neutropenia and Monocytopenia Through Mathematical Modelling. Bulletin of Mathematical Biology, 2020, 82, 104.	0.9	8
136	A Mitotic Oscillator with a Strange Attractor and Distributions of Cell Cycle Times. Lecture Notes in Biomathematics, 1986, , 34-45.	0.3	8
137	Central limit theorem behavior in the skew tent map. Chaos, Solitons and Fractals, 2008, 38, 789-805.	2.5	7
138	Phosphate and ADP Differently Inhibit Coordinated Smooth Muscle Myosin Groups. Biophysical Journal, 2015, 108, 622-631.	0.2	7
139	A Deterministic Cell Cycle Model with Transition Probability-Like Behaviour. Springer Series in Synergetics, 1985, , 315-320.	0.2	7
140	Admittance properties of electrodiffusion membrane models. Mathematical Biosciences, 1975, 25, 67-80.	0.9	6
141	Long memory and scaling for multiplicative stochastic processes with application to the study of population oscillations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 208, 99-107.	0.9	6
142	Oscillations in a Maturation Model of Blood Cell Production. SIAM Journal on Applied Mathematics, 2006, 66, 2027-2048.	0.8	6
143	Small delay, big waves: a minimal delayed negative feedback model captures Escherichia coli single cell SOS kinetics. Molecular BioSystems, 2011, 7, 2599-2607.	2.9	6
144	An upper bound for the half-removal time of neutrophils from circulation. Blood, 2016, 128, 1989-1991.	0.6	6

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145	Understanding Normal and Pathological Hematopoietic Stem Cell Biology Using Mathematical Modelling. Current Stem Cell Reports, 2021, 7, 109-120.	0.7	6
146	Operon dynamics with state dependent transcription and/or translation delays. Journal of Mathematical Biology, 2022, 84, 2.	0.8	6
147	Maximum information entropy approach to non-markovian random jump processes with long memory: application to surprisal analysis in molecular dynamics. Physica A: Statistical Mechanics and Its Applications, 1995, 215, 339-360.	1.2	4
148	Response of an oscillatory differential delay equation to a single stimulus. Journal of Mathematical Biology, 2017, 74, 1139-1196.	0.8	4
149	Response of an oscillatory differential delay equation to a periodic stimulus. Journal of Mathematical Biology, 2019, 78, 1637-1679.	0.8	4
150	Ensemble and trajectory statistics in a nonlinear partial differential equation. Journal of Statistical Physics, 1993, 70, 281-295.	0.5	3
151	Jump clustering, Shlesinger-Hughes stochastic renormalization, and interacting LÃ©vy flights. Physical Review E, 1995, 51, 3120-3125.	0.8	3
152	Evolution towards ergodic behavior of stationary fractal random processes with memory: application to the study of long-range correlations of nucleotide sequences in DNA. Physica A: Statistical Mechanics and Its Applications, 1996, 229, 312-342.	1.2	3
153	ZEROPOINT FLUCTUATIONS AND DARK ENERGY IN JOSEPHSON JUNCTIONS. Fluctuation and Noise Letters, 2007, 07, C27-C35.	1.0	3
154	Mathematical model of galactose regulation and metabolic consumption in yeast. Journal of Theoretical Biology, 2016, 407, 238-258.	0.8	3
155	Asymptotic (statistical) periodicity in two-dimensional maps. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 4285.	0.5	3
156	How can we describe density evolution under delayed dynamics?. Chaos, 2021, 31, 043114.	1.0	3
157	Dependence on initial conditions in nonlocal PDE's and hereditary dynamical systems. , 1996, , 3125-3136.		3
158	Self-similar potentials in random media, fractal evolutionary landscapes and Kimura's neutral theory of molecular evolution. Physica A: Statistical Mechanics and Its Applications, 1996, 229, 343-364.	1.2	2
159	FRACTAL TIME, LONG-RANGE CORRELATIONS AND STRETCHED OR COMPRESSED EXPONENTIAL SURVIVAL STATISTICS. Fractals, 1996, 04, 59-72.	1.8	2
160	Random Numbers from a Delay Equation. Journal of Nonlinear Science, 2016, 26, 1311-1327.	1.0	2
161	The Lysis-Lysogeny Switch. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 99-114.	0.1	2
162	Statistical fractals with cutoffs, Shlesinger-Hughes renormalization, and the onset of an epidemic. Physical Review E, 1996, 53, 1382-1398.	0.8	1

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163	Fluctuating Poissonian clocks, fractal random processes and dynamical Porter-Thomas distributions: Applications to evolutionary molecular biology, enhanced diffusion and dynamical relaxation. Physica Scripta, 1996, 54, 581-593.	1.2	1
164	Generic Deterministic Models of Prokaryotic Gene Regulation. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 3-6.	0.1	1
165	The combined effects of Feller diffusion and transcriptional/translational bursting in simple gene networks. Journal of Mathematical Analysis and Applications, 2019, 470, 931-953.	0.5	1
166	Density Evolution Under Delayed Dynamics. Fields Institute Monographs, 2020, , .	0.4	1
167	Randomly switching evolution equations. Nonlinear Analysis: Hybrid Systems, 2021, 39, 100948.	2.1	1
168	Andrew Fielding Huxley (1917-2012). Notices of the American Mathematical Society, 2013, 60, 576.	0.1	1
169	The Mathematical Legacy of Andrzej Lasota. , 2012, 48, .	0.0	1
170	The Tryptophan Operon. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 87-97.	0.1	1
171	Erratum to â€œphase transitions in networks of chaotic elements with short and long range interactionsâ€•[Physica D 81 (1995) 177â€“203]. Physica D: Nonlinear Phenomena, 1995, 83, 499-500.	1.3	0
172	Crossover from geometrical to stochastic fractal statistics for translationally invariant random distributions of independent particles in n-dimensional Euclidean space. Chaos, Solitons and Fractals, 1996, 7, 337-348.	2.5	0
173	Dynamic spatial pattern formation in the sea urchin embryo. Journal of Mathematical Biology, 2014, 68, 581-608.	0.8	0
174	Barth Syndrome: An Under-Recognized Cause of Chronic Neutropenia. Blood, 2015, 126, 2195-2195.	0.6	0
175	Application of Spectral Density/Periodogram Analysis to Serial Neutrophil Counts to Diagnose Cyclic Neutropenia. Blood, 2015, 126, 4608-4608.	0.6	0
176	Noise Effects in Gene Regulation: Intrinsic Versus Extrinsic. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 49-69.	0.1	0
177	Master Equation Modeling Approaches. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 31-47.	0.1	0
178	General Dynamic Considerations. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 7-27.	0.1	0
179	The Lactose Operon. Lecture Notes on Mathematical Modelling in the Life Sciences, 2016, , 73-85.	0.1	0
180	The Hopf Functional Approach. Fields Institute Monographs, 2020, , 45-78.	0.4	0

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181	Density Evolution in Systems with Finite-Dimensional Dynamics. Fields Institute Monographs, 2020, , 9-16.	0.4	0
182	Turning a Differential Delay Equation into a High-Dimensional Map. Fields Institute Monographs, 2020, , 99-114.	0.4	0
183	Approximate â€œLiouville-Likeâ€•Equation and Invariant Densities for Delay Differential Equations. Fields Institute Monographs, 2020, , 115-130.	0.4	0