Marek Bodnar

List of Publications by Year
in descending order

56 papers	818 citations	567281 15 h-index	552781 26 g-index
57 all docs	57 docs citations	57 times ranked	600 citing authors

#	Article	IF	Citations
1	An integro-differential equation arising as a limit of individual cell-based models. Journal of Differential Equations, 2006, 222, 341-380.	2.2	97
2	Derivation of macroscopic equations for individual cell-based models: a formal approach. Mathematical Methods in the Applied Sciences, 2005, 28, 1757-1779.	2.3	69
3	Time delays in proliferation process for solid avascular tumour. Mathematical and Computer Modelling, 2003, 37, 1201-1209.	2.0	65
4	THREE TYPES OF SIMPLE DDE'S DESCRIBING TUMOR GROWTH. Journal of Biological Systems, 2007, 15, 453-471.	1.4	50
5	Time Delay In Necrotic Core Formation. Mathematical Biosciences and Engineering, 2005, 2, 461-472.	1.9	45
6	Stochastic Models of Gene Expression with Delayed Degradation. Bulletin of Mathematical Biology, 2011, 73, 2231-2247.	1.9	39
7	ANGIOGENESIS MODEL WITH CARRYING CAPACITY DEPENDING ON VESSEL DENSITY. Journal of Biological Systems, 2009, 17, 1-25.	1.4	31
8	Time delays in regulatory apoptosis for solid avascular tumour. Mathematical and Computer Modelling, 2003, 37, 1211-1220.	2.0	30
9	A mathematical model describes the malignant transformation of low grade gliomas: Prognostic implications. PLoS ONE, 2017, 12, e0179999.	2.5	26
10	Analysis of biochemical reactions models with delays. Journal of Mathematical Analysis and Applications, 2011, 376, 74-83.	1.0	25
11	AÂmathematical model of low grade gliomas treated with temozolomide and its therapeutical implications. Mathematical Biosciences, 2017, 288, 1-13.	1.9	24
12	Mathematical modelling of immune reaction against gliomas: Sensitivity analysis and influence of delays. Nonlinear Analysis: Real World Applications, 2013, 14, 1601-1620.	1.7	22
13	Delay can stabilize: Love affairs dynamics. Applied Mathematics and Computation, 2012, 219, 3923-3937.	2.2	21
14	New approach to modeling of antiangiogenic treatment on the basis of Hahnfeldt et al. model. Mathematical Biosciences and Engineering, 2011, 8, 591-603.	1.9	19
15	Dynamic Oligopoly with Sticky Prices: Off-Steady-state Analysis. Dynamic Games and Applications, 2015, 5, 568-598.	1.9	17
16	Stability of delay induced oscillations in gene expression of Hes1 protein model. Nonlinear Analysis: Real World Applications, 2012, 13, 2227-2239.	1.7	16
17	Gompertz model with delays and treatment: Mathematical analysis. Mathematical Biosciences and Engineering, 2013, 10, 551-563.	1.9	15
18	A modified van der Pol equation with delay in a description of the heart action. International Journal of Applied Mathematics and Computer Science, 2014, 24, 853-863.	1.5	14

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19	A model of immune system with time-dependent immune reactivity. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 1049-1058.	1.1	13
20	A simple model of carcinogenic mutations with time delay and diffusion. Mathematical Biosciences and Engineering, 2013, 10, 861-872.	1.9	13
21	Model of tumour angiogenesis -- analysis of stability with respect to delays. Mathematical Biosciences and Engineering, 2013, 10, 19-35.	1.9	12
22	Global stability and the Hopf bifurcation for some class of delay differential equation. Mathematical Methods in the Applied Sciences, 2008, 31, 1197-1207.	2.3	11
23	Stability analysis of the family of tumour angiogenesis models with distributed time delays. Communications in Nonlinear Science and Numerical Simulation, 2016, 31, 124-142.	3.3	11
24	Friction dominated dynamics of interacting particles locally close to a crystallographic lattice. Mathematical Methods in the Applied Sciences, 2013, 36, 1206-1228.	2.3	10
25	Influence of distributed delays on the dynamics of aÂgeneralized immune system cancerous cells interactions model. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 389-415.	3.3	10
26	Logistic type equations with discrete delay and quasi-periodic suppression rate. Applied Mathematics Letters, 2013, 26, 607-611.	2.7	9
27	Three-Player Games with Strategy-Dependent Time Delays. Dynamic Games and Applications, 2020, 10, 664-675.	1.9	9
28	General model of a cascade of reactions with time delays: Global stability analysis. Journal of Differential Equations, 2015, 259, 777-795.	2.2	8
29	Mathematical and numerical analysis of low-grade gliomas model and the effects of chemotherapy. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 552-564.	3.3	8
30	Periodic dynamics in a model of immune system. Applicationes Mathematicae, 2000, 27, 113-126.	0.1	8
31	Negativity of delayed induced oscillations in a simple linear DDE. Applied Mathematics Letters, 2011, 24, 982-986.	2.7	7
32	Model of AIDS-related tumour with time delay. Applicationes Mathematicae, 2009, 36, 263-278.	0.1	7
33	Existence and stability of oscillating solutions for a class of delay differential equations. Nonlinear Analysis: Real World Applications, 2013, 14, 1780-1794.	1.7	6
34	Asymptotic dynamics of some t-periodic one-dimensional model with application to prostate cancer immunotherapy. Journal of Mathematical Biology, 2016, 73, 867-883.	1.9	6
35	About a generalized model of lymphoma. Journal of Mathematical Analysis and Applications, 2012, 386, 813-829.	1.0	5
36	Logistic Equation with Treatment Function and Discrete Delays. Mathematical Population Studies, 2014, 21, 166-183.	2.2	5

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37	Evolution of populations with strategy-dependent time delays. Physical Review E, 2021, 103, 012414.	2.1	5
38	Influence of time delays on the Hahnfeldt et al. angiogenesis model dynamics. Applicationes Mathematicae, 2009, 36, 251-262.	0.1	5
39	On the differences and similarities of the first order delay and ordinary differential equations. Journal of Mathematical Analysis and Applications, 2004, 300, 172-188.	1.0	4
40	Delays do not cause oscillations in aÂcorrected model of humoral mediated immune response. Applied Mathematics and Computation, 2016, 289, 7-21.	2.2	4
41	Mathematical analysis of a generalised p53-Mdm2 protein gene expression model. Applied Mathematics and Computation, 2018, 328, 26-44.	2.2	3
42	Angiogenesis model with Erlang distributed delays. Mathematical Biosciences and Engineering, 2017, 14, 1-15.	1.9	3
43	Modeling of drug resistance: Comparison of two hypotheses for slowly proliferating tumors on the example of lowâ€grade gliomas. Mathematical Methods in the Applied Sciences, 2022, 45, 4161-4184.	2.3	2
44	Time delay in necrotic core formation. Mathematical Biosciences and Engineering, 2005, 2, 461-72.	1.9	2
45	Tractable Model of Malignant Gliomas Immunotherapy with Discrete Time Delays. Mathematical Population Studies, 2014, 21, 127-145.	2.2	1
46	Deterministic and Stochastic Study for a Microscopic Angiogenesis Model: Applications to the Lewis Lung Carcinoma. PLoS ONE, 2016, 11, e0155553.	2.5	1
47	Mathematical analysis of a generalised model of chemotherapy for low grade gliomas. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 2149-2167.	0.9	1
48	Distributed delays in Hes1 gene expression model. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 2125-2147.	0.9	1
49	Some remarks on modelling of drug resistance for low grade gliomas. Mathematica Applicanda, 2019, 47, .	0.0	1
50	Justification of quasi-stationary approximation in models of gene expression of aÂself-regulating protein. Communications in Nonlinear Science and Numerical Simulation, 2020, 84, 105166.	3.3	1
51	Norm conservation for generalized kinetic population models with delay. Mathematical and Computer Modelling, 2002, 35, 765-778.	2.0	0
52	Mathematical model for path selection by ants between nest and food source. Mathematical Biosciences, 2017, 285, 14-24.	1.9	0
53	On the nonlocal discretization of the simplified Anderson-May model of viral infection. Mathematica Applicanda, 2018, 46, .	0.0	0
54	Analysis of a delay differential equations modelling tumor growth with angiogenesis. Mathematica Applicanda, 2019, 47, .	0.0	0

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55	The NF-Î° B network as an example of a regulatory network with a positive and negative feedback loop. Mathematica Applicanda, 2019, 47, .	0.0	0
56	Cancer as a Killer Tsunami. , 2020, , 62-63.		0