Vitalii Akimenko

List of Publications by Year
in descending order

28	125	1477746	1473754
papers	citations	6	9
		h-index	g-index

29	29	29	46
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An age-structured SIR epidemic model with fixed incubation period of infection. Computers and Mathematics With Applications, 2017, 73, 1485-1504.	1.4	16
2	Steady states and outbreaks of two-phase nonlinear age-structured model of population dynamics with discrete time delay. Journal of Biological Dynamics, 2017, 11, 75-101.	0.8	15
3	Asymptotically stable states of non-linear age-structured monocyclic population model II. Numerical simulation. Mathematics and Computers in Simulation, 2017, 133, 24-38.	2.4	11
4	Asymptotically stable states of nonlinear age-structured monocyclic population model I. Travelling wave solution. Mathematics and Computers in Simulation, 2017, 133, 2-23.	2.4	10
5	Simulation of Two-Dimensional Transport Processes Using Nonlinear Monotone Second-Order Schemes. Cybernetics and Systems Analysis, 2003, 39, 839-853.	0.4	8
6	Nonlinear age-structured models of polycyclic population dynamics with death rates as power functions with exponent n. Mathematics and Computers in Simulation, 2017, 133, 175-205.	2.4	8
7	Identification of parameters of evolutionary model of monocyclic cells aggregation with the hop plants example. Computers and Mathematics With Applications, 2013, 66, 1547-1553.	1.4	7
8	Two-compartment age-structured model of solitarious and gregarious locust population dynamics. Mathematical Methods in the Applied Sciences, 2018, 41, 8636-8672.	1.2	7
9	Modeling the Dynamics of Age-Structured Polycyclic Population of Biological Cells on the Parameterized Set of Algebraic Functions. Cybernetics and Systems Analysis, 2014, 50, 578-593.	0.4	6
10	Asymptotic stability of delayed consumer age-structured population models with an Allee effect. Mathematical Biosciences, 2018, 306, 170-179.	0.9	6
11	Optimal control models for interregional migration under social risks. Cybernetics and Systems Analysis, 2006, 42, 398-410.	0.4	5
12	Modeling the dynamics of a monocyclic cell aggregation system. Cybernetics and Systems Analysis, 2011, 47, 29-43.	0.4	5
13	Stability analysis of an age-structured model of cervical cancer cells and HPV dynamics. Mathematical Biosciences and Engineering, 2021, 18, 6155-6177.	1.0	4
14	An optimal control model for a system of degenerate parabolic integro-differential equations. Cybernetics and Systems Analysis, 2007, 43, 838-847.	0.4	3
15	Stability Analysis of Delayed Age-Structured Resource-Consumer Model of Population Dynamics With Saturated Intake Rate. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	3
16	Modeling of Vortical Flows on the Background of Two-Dimensional Process of Convective Heat and Mass Transfer. Journal of Automation and Information Sciences, 2004, 36, 35-45.	0.7	3
17	Planning a physical experiment on determination of the parameters of a material by using mathematical methods. Journal of Engineering Physics, 1991, 61, 941-946.	0.0	2
18	A model of optimal control over a nonlinear multidimensional innovation diffusion process. Cybernetics and Systems Analysis, 2008, 44, 564-574.	0.4	2

#	Article	IF	Citations
19	Scenarios of optimal control of transregional migration processes under risk. Cybernetics and Systems Analysis, 2007, 43, 12-24.	0.4	1
20	Numerical Method for Solving the Diffusive Lotke-Volterra Model with Discontinuous Coefficients for the Problem of Companies Competition. Journal of Automation and Information Sciences, 2012, 44, 71-80.	0.7	1
21	Age-structured delayed SIPCV epidemic model of HPV and cervical cancer cells dynamics I. Numerical method. Biomath, 2021, 10, 2110027.	0.3	1
22	Effect of high-temperature heating of bimetallic steel billets. Journal of Engineering Physics, 1990, 58, 281-289.	0.0	0
23	Optimization of heating bimetallic steel stock to high temperatures. Metal Science and Heat Treatment, 1990, 32, 105-112.	0.2	0
24	Control of cooling during hardening taking into account the effect of stresses on phase transformations. Journal of Engineering Physics, 1991, 61, 1425-1429.	0.0	0
25	Modeling convection–diffusion processes based on a multidimensional integro-differential equation with degenerate parabolicity. Cybernetics and Systems Analysis, 2009, 45, 232-244.	0.4	0
26	Model of the optimal control of funds and competitiveness of the information-communication company. Cybernetics and Systems Analysis, 2012, 48, 722-735.	0.4	0
27	The Model of Nonlinear Filtration Optimal Control for the Problem of Areas Underflooding. Journal of Automation and Information Sciences, 2010, 42, 65-82.	0.7	0
28	Continuous Monocyclic and Polycyclic Age Structured Models of Population Dynamics. Communication in Biomathematical Sciences, 2019, 2, 85.	0.1	0