

Vasyl P Martsenyuk

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

141
citations

5
h-index

9
g-index


109
ext. papers

176
ext. citations

0.6
avg, IF

3.28
L-index

#	Paper	IF	Citations
51	Stability, bifurcation and transition to chaos in a model of immunosensor based on lattice differential equations with delay. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2018 , 1-31	0.5	16
50	Taking into account delay in the problem of immune protection of organism. <i>Nonlinear Analysis: Real World Applications</i> , 2001 , 2, 483-496	2.1	15
49	Uncertainties in Medical Processes Control 2006 , 185-192		12
48	Qualitative Analysis of the Antineoplastic Immunity System on the Basis of a Decision Tree. <i>Cybernetics and Systems Analysis</i> , 2015 , 51, 461-470	0.7	11
47	On Model of Interaction of Cell Elements at Bone Tissue Remodeling. <i>Journal of Automation and Information Sciences</i> , 2007 , 39, 68-80	1.9	6
46	On Stability of Immune Protection Model with Regard for Damage of Target Organ: The Degenerate Liapunov Functionals Method. <i>Cybernetics and Systems Analysis</i> , 2004 , 40, 126-136	0.7	5
45	Construction and study of stability of an antitumoral immunity model. <i>Cybernetics and Systems Analysis</i> , 2004 , 40, 778-783	0.7	5
44	Two-Strain COVID-19 Model Using Delayed Dynamic System and Big Data. <i>IEEE Access</i> , 2021 , 9, 113866-113875	1.3	5
43	On Nonlinear Reaction-Diffusion Model with Time Delay on Hexagonal Lattice. <i>Symmetry</i> , 2019 , 11, 758	2.7	4
42	Qualitative analysis of compartmental dynamic system using decision-tree induction 2015 ,		4
41	On the Problem of Chemotherapy Scheme Search Based on Control Theory. <i>Journal of Automation and Information Sciences</i> , 2003 , 35, 46-56	1.9	4
40	Information System of Arterial Oscillography for Primary Diagnostics of Cardiovascular Diseases. <i>Lecture Notes in Computer Science</i> , 2018 , 46-56	0.9	4
39	Using Differential Equations with Time Delay on a Hexagonal Lattice for Modeling Immunosensors. <i>Cybernetics and Systems Analysis</i> , 2019 , 55, 625-637	0.7	3
38	On Conditions of Asymptotic Stability in SIR-Models of Mathematical Epidemiology. <i>Journal of Automation and Information Sciences</i> , 2011 , 43, 59-68	1.9	3
37	Controllability Problems for Differential Gompertzian Dynamic Equations. <i>Cybernetics and Systems Analysis</i> , 2004 , 40, 252-259	0.7	3
36	 <i>Medical Informatics and Engineering</i> , 2018 ,	0.1	3
35	On indirect method of exponential estimation for neural network model with discretely distributed delays. <i>Electronic Journal of Qualitative Theory of Differential Equations</i> , 2017 , 1-16	0.5	3

34	On Model of Interaction of Cell Elements in the Process of Remodeling Bone Tissue on the Basis of Nonlinear Partial Differential Equations. <i>Journal of Automation and Information Sciences</i> , 2007 , 39, 75-83 ^{1.9}		3
33	Multispectral control of water bodies for biological diversity with the index of phytoplankton 2016 ,		3
32	On multivariate method of qualitative analysis of Hodgkin-Huxley model with decision tree induction 2016 ,		3
31	Estimating the solutions in the model of antitumor immunity with impulsive disturbances. <i>Cybernetics and Systems Analysis</i> , 2012 , 48, 200-204	0.7	2
30	Optimization method for stability analysis of delayed linear systems. <i>Cybernetics and Systems Analysis</i> , 1996 , 32, 534-538	0.7	2
29	 <i>Medical Informatics and Engineering</i> , 2018 ,	0.1	2
28	Computation Model of Cyber-Physical Immunosensor System. <i>IEEE Access</i> , 2019 , 7, 62325-62337	3.5	1
27	2019 ,		1
26	On an Approach of the Solution of Machine Learning Problems Integrated with Data from the Open-Source System of Electronic Medical Records: Application for Fractures Prediction. <i>Lecture Notes in Computer Science</i> , 2019 , 228-239	0.9	1
25	Stability estimation method for compartmental models with delay. <i>Cybernetics and Systems Analysis</i> , 2013 , 49, 81-85	0.7	1
24	Impedance spectroscopy of supercapacitors on the basis on modified by the ultrasound activated carbon material 2017 ,		1
23	On the existence and stability of periodic solutions in the absence of immunity in an impulsive model based on Gompertzian dynamics. <i>Cybernetics and Systems Analysis</i> , 2012 , 48, 586-591	0.7	1
22	Global Asymptotic Stability and Nonlinear Analysis of the Model of the Square Immunopixels Array Based on Delay Lattice Differential Equations. <i>Symmetry</i> , 2020 , 12, 40	2.7	1
21	Analysis of Stability in Enzyme Biosensor Based on Michaelis-Menten Model with Time Delays. <i>Acta Physica Polonica A</i> , 2019 , 135, 375-379	0.6	1
20	On Code Refactoring for Decision Making Component Combined with the Open-Source Medical Information System. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 196-208	0.4	1
19	Modeling and Stability Investigation of Investment of Health Sector on Regional Level. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 121-131	0.4	1
18	On Development of Machine Learning Models with Aim of Medical Differential Diagnostics of the Comorbid States 2019 ,		1
17	On Data Mining Technique for Differential Diagnostics Based on Data of Arterial Oscillography. <i>Mechanisms and Machine Science</i> , 2020 , 253-262	0.3	1

16	On qualitative analysis of the nonstationary delayed model of coexistence of two-strain virus: Stability, bifurcation, and transition to chaos. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 128, 103630	2.8	1
15	Stability Investigation of Biosensor Model Based on Finite Lattice Difference Equations. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020 , 297-321	0.2	0
14	A Method for Maximum Coverage of the Territory by Sensors with Minimization of Cost and Assessment of Survivability. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3059	2.6	0
13	On Machine Learning Approach for the Design of Pharmaceutical Technology of Tablets: Acetyl Salicylic Acid with Atorvastatin. <i>Lecture Notes in Computer Science</i> , 2019 , 216-227	0.9	
12	Constructing exponential estimates in compartmental systems with distributed delays: an approach based on the Hale-Lunel inequality. <i>Cybernetics and Systems Analysis</i> , 2013 , 49, 347-352	0.7	
11	An optimization method for constructing Lyapunov-Krasovskii functionals in stationary lag systems. <i>Journal of Mathematical Sciences</i> , 1999 , 97, 3992-3998	0.4	
10	Minimax Combined with Machine Learning to Cope with Uncertainties in Medical Application. <i>Lecture Notes in Networks and Systems</i> , 2022 , 713-720	0.5	
9	 <i>Medical Informatics and Engineering</i> , 2019 , 25-38	0.1	
8	Study of Improvement of Biosensor Matrix Stability. <i>Mechanisms and Machine Science</i> , 2020 , 153-161	0.3	
7	Numerical Simulation of Cyber-physical Biosensor Systems on the Basis of Lattice Difference Equations. <i>Advances in Cyber-Physical Systems</i> , 2019 , 4, 91-99	0.1	
6	Investigation of Biosensor Potential Component Stability Caused by Influence of External Condition. <i>Ecological Chemistry and Engineering S</i> , 2019 , 26, 665-674	1.3	
5	Methods for Estimating the Discrete Rhythmic Structure of Cyclic Random Processes Using Adaptive Interpolation. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 614-627	0.4	
4	On Optimization Techniques for the Construction of an Exponential Estimate for Delayed Recurrent Neural Networks. <i>Symmetry</i> , 2020 , 12, 1731	2.7	
3	A meta-analysis of the influence of the external conditions on the biosensor receptor layer component stability. <i>Acta Biochimica Polonica</i> , 2021 , 68, 325-330	2	
2	On Application of Kertesz Method for Exponential Estimation of Neural Network Model with Discrete Delays. <i>Mechanisms and Machine Science</i> , 2020 , 165-176	0.3	
1	On Investigation of Stability and Bifurcation of Neural Network with Discrete and Distributed Delays. <i>Lecture Notes in Computer Science</i> , 2018 , 300-313	0.9	