# Vitalii Akimenko

## List of Publications by Year
in descending order

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|---|---|---|---|
| **28**<br>papers | **125**<br>citations | 1477746<br>**6**<br>h-index | 1473754<br>**9**<br>g-index |
| **29**<br>all docs | **29**<br>docs citations | **29**<br>times ranked | **46**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Age-structured delayed SIPCV epidemic model of HPV and cervical cancer cells dynamics I. Numerical method. Biomath, 2021, 10, 2110027. | 0.3 | 1 |
| 4 | Continuous Monocyclic and Polycyclic Age Structured Models of Population Dynamics. Communication in Biomathematical Sciences, 2019, 2, 85. | 0.1 | 0 |
| 5 | Asymptotic stability of delayed consumer age-structured population models with an Allee effect. Mathematical Biosciences, 2018, 306, 170-179. | 0.9 | 6 |
| 6 | Twoâ€compartment ageâ€structured model of solitarious and gregarious locust population dynamics. Mathematical Methods in the Applied Sciences, 2018, 41, 8636-8672. | 1.2 | 7 |
| 7 | 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 |
| 8 | 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 |
| 9 | An age-structured SIR epidemic model with fixed incubation period of infection. Computers and Mathematics With Applications, 2017, 73, 1485-1504. | 1.4 | 16 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Modeling the dynamics of a monocyclic cell aggregation system. Cybernetics and Systems Analysis, 2011, 47, 29-43. | 0.4 | 5 |
| 17 | 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 |
| 18 | Modeling convectionâ€"diffusion processes based on a multidimensional integro-differential equation with degenerate parabolicity. Cybernetics and Systems Analysis, 2009, 45, 232-244. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | A model of optimal control over a nonlinear multidimensional innovation diffusion process. Cybernetics and Systems Analysis, 2008, 44, 564-574. | 0.4 | 2 |
| 20 | Scenarios of optimal control of transregional migration processes under risk. Cybernetics and Systems Analysis, 2007, 43, 12-24. | 0.4 | 1 |
| 21 | An optimal control model for a system of degenerate parabolic integro-differential equations. Cybernetics and Systems Analysis, 2007, 43, 838-847. | 0.4 | 3 |
| 22 | Optimal control models for interregional migration under social risks. Cybernetics and Systems Analysis, 2006, 42, 398-410. | 0.4 | 5 |
| 23 | 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 |
| 24 | Simulation of Two-Dimensional Transport Processes Using Nonlinear Monotone Second-Order Schemes. Cybernetics and Systems Analysis, 2003, 39, 839-853. | 0.4 | 8 |
| 25 | 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 |
| 26 | 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 |
| 27 | Effect of high-temperature heating of bimetallic steel billets. Journal of Engineering Physics, 1990, 58, 281-289. | 0.0 | 0 |
| 28 | Optimization of heating bimetallic steel stock to high temperatures. Metal Science and Heat Treatment, 1990, 32, 105-112. | 0.2 | 0 |