Svetlana Bunimovich-Mendrazitsky

List of Publications by Year
in descending order

35 papers	616 citations	687363 13 h-index	642732 23 g-index
41 all docs	41 docs citations	41 times ranked	507 citing authors

#	ARTICLE	IF	CITATIONS
1	Pandemic management by a spatioâ€“temporal mathematical model. International Journal of Nonlinear Sciences and Numerical Simulation, 2023, 24, 2307-2324.	1.0	20
2	Spatio-Temporal influence of Non-Pharmaceutical interventions policies on pandemic dynamics and the economy: the case of COVID-19. Economic Research-Ekonomska Istrazivanja, 2022, 35, 1833-1861.	4.7	13
3	Generic approach for mathematical model of multi-strain pandemics. PLoS ONE, 2022, 17, e0260683.	2.5	21
4	Predicting acute kidney injury following open partial nephrectomy treatment using SAT-pruned explainable machine learning model. BMC Medical Informatics and Decision Making, 2022, 22, 133.	3.0	8
5	Differential Response to Cytotoxic Drugs Explains the Dynamics of Leukemic Cell Death: Insights from Experiments and Mathematical Modeling. Symmetry, 2022, 14, 1269.	2.2	2
6	Mathematical analysis of tumor-free equilibrium in BCG treatment with effective IL-2 infusion for bladder cancer model. AIMS Mathematics, 2022, 7, 16388-16406.	1.6	1
7	PDE based geometry model for BCG immunotherapy of bladder cancer. BioSystems, 2021, 200, 104319.	2.0	12
8	STABILITY ANALYSIS OF A MATHEMATICAL MODEL FOR CHRONIC MYELOID LEUKEMIA ERADICATION. Journal of Biological Systems, 2021, 29, 169-191.	1.4	0
9	The Signature Features of COVIDâ€19 Pandemic in a Hybrid Mathematical Modelâ€”Implications for Optimal Workâ€“School Lockdown Policy. Advanced Theory and Simulations, 2021, 4, 2000298.	2.8	23
10	Novel Method to Analytically Obtain the Asymptotic Stable Equilibria States of Extended SIR-Type Epidemiological Models. Symmetry, 2021, 13, 1120.	2.2	8
11	Experimental Validation of a Mathematical Model to Describe the Drug Cytotoxicity of Leukemic Cells. Symmetry, 2021, 13, 1760.	2.2	5
12	Improved Geometric Configuration for the Bladder Cancer BCG-Based Immunotherapy Treatment Model. Lecture Notes in Computer Science, 2021, , 63-67.	1.3	0
13	Analysis of a breast cancer mathematical model by a new method to find an optimal protocol for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mrow><mml:mi>H</mml:mi><mml:mi>E</mml:mi><mml:mi>R</mml:mi><mml:mn>2</mml:mn></mml:mrow> cancer. BioSystems, 2020, 197, 104191.	2.0	11
14	Stability Analysis of Delayed Tumor-Antigen-ActivatedImmune Response in Combined BCG and IL-2Immunotherapy of Bladder Cancer. Processes, 2020, 8, 1564.	2.8	3
15	Metastasis Initiation Precedes Detection of Primary Cancerâ€”Analysis of Metastasis Growth in vivo in a Colorectal Cancer Test Case. Frontiers in Physiology, 2020, 11, 533101.	2.8	1
16	Additional Extension of the Mathematical Model for BCG Immunotherapy of Bladder Cancer and Its Validation by Auxiliary Tool. International Journal of Nonlinear Sciences and Numerical Simulation, 2019, 20, 675-689.	1.0	13
17	Metastases Growth Patterns in vivoâ€”A Unique Test Case of a Metastatic Colorectal Cancer Patient. Frontiers in Applied Mathematics and Statistics, 2019, 5, .	1.3	4
18	Optimization of Interferonâ€“Alpha and Imatinib Combination Therapy for Chronic Myeloid Leukemia: A Modeling Approach. Advanced Theory and Simulations, 2019, 2, 1800081.	2.8	7

#	Article	IF	Citations
19	BCG and IL â^' 2 model for bladder cancer treatment with fast and slow dynamics based on SPVF methodâ€"stability analysis. Mathematical Biosciences and Engineering, 2019, 16, 5346-5379.	1.9	12
20	Stability Analysis of Delayed Immune Response BCG Infection in Bladder Cancer Treatment Model by Stochastic Perturbations. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-9.	1.3	12
21	Optimization of Combined Leukemia Therapy by Finite-Dimensional Optimal Control Modeling. Journal of Optimization Theory and Applications, 2017, 175, 218-235.	1.5	6
22	Key signaling pathways in the muscleâ€invasive bladder carcinoma: Clinical markers for disease modeling and optimized treatment. International Journal of Cancer, 2016, 138, 2562-2569.	5.1	34
23	Improving Bacillus Calmette-GuÃ©rin (BCG) immunotherapy for bladder cancer by adding interleukin 2 (IL-2): a mathematical model. Mathematical Medicine and Biology, 2016, 33, 159-188.	1.2	28
24	Dynamical properties and tumor clearance conditions for a nine-dimensional model of bladder cancer immunotherapy. Mathematical Biosciences and Engineering, 2016, 13, 1059-1075.	1.9	17
25	Modeling and simulation of a low-grade urinary bladder carcinoma. Computers in Biology and Medicine, 2015, 58, 118-129.	7.0	10
26	Stability and Controllability Issues in Mathematical Modeling of the Intensive Treatment of Leukemia. Journal of Optimization Theory and Applications, 2015, 167, 326-341.	1.5	11
27	Treatment of non-muscle invasive bladder cancer with Bacillus Calmetteâ€"Guerin (BCG): Biological markers and simulation studies. BBA Clinical, 2015, 4, 27-34.	4.1	39
28	Reconstruction of the natural history of metastatic cancer and assessment of the effects of surgery: Gompertzian growth of the primary tumor. Mathematical Biosciences, 2014, 247, 47-58.	1.9	21
29	Hybrid discrete-continuous model of invasive bladder cancer. Mathematical Biosciences and Engineering, 2013, 10, 729-742.	1.9	6
30	A mathematical model with time-varying delays in the combined treatment of chronic myeloid leukemia. Advances in Difference Equations, 2012, 2012, .	3.5	7
31	A mathematical model of combined bacillus Calmette-Guerin (BCG) and interleukin (IL)-2 immunotherapy of superficial bladder cancer. Journal of Theoretical Biology, 2011, 277, 27-40.	1.7	42
32	Use of quasi-normal form to examine stability of tumor-free equilibrium in a mathematical model of bcg treatment of bladder cancer. Mathematical Biosciences and Engineering, 2011, 8, 529-547.	1.9	13
33	Mathematical Model of Pulsed Immunotherapy forÂSuperficial Bladder Cancer. Bulletin of Mathematical Biology, 2008, 70, 2055-2076.	1.9	76
34	Mathematical Model of BCG Immunotherapy inÂSuperficial Bladder Cancer. Bulletin of Mathematical Biology, 2007, 69, 1847-1870.	1.9	77
35	Modeling polio as a disease of development. Journal of Theoretical Biology, 2005, 237, 302-315.	1.7	43