

Artem S Novozhilov

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,101
citations

623734

14
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin and evolution of the genetic code: The universal enigma. IUBMB Life, 2009, 61, 99-111.	3.4	288
2	Origin and Evolution of the Universal Genetic Code. Annual Review of Genetics, 2017, 51, 45-62.	7.6	132
3	Biological applications of the theory of birth-and-death processes. Briefings in Bioinformatics, 2006, 7, 70-85.	6.5	122
4	Evolution of the genetic code: partial optimization of a random code for robustness to translation error in a rugged fitness landscape. Biology Direct, 2007, 2, 24.	4.6	96
5	Mathematical modeling of tumor therapy with oncolytic viruses: regimes with complete tumor elimination within the framework of deterministic models. Biology Direct, 2006, 1, 6.	4.6	80
6	Mathematical Modeling of Evolution of Horizontally Transferred Genes. Molecular Biology and Evolution, 2005, 22, 1721-1732.	8.9	71
7	On the spread of epidemics in a closed heterogeneous population. Mathematical Biosciences, 2008, 215, 177-185.	1.9	56
8	Mathematical modeling of tumor therapy with oncolytic viruses: effects of parametric heterogeneity on cell dynamics. Biology Direct, 2006, 1, 30.	4.6	44
9	Population models with singular equilibrium. Mathematical Biosciences, 2007, 208, 270-299.	1.9	34
10	Exceptional error minimization in putative primordial genetic codes. Biology Direct, 2009, 4, 44.	4.6	31
11	Epidemiological Models With Parametric Heterogeneity : Deterministic Theory for Closed Populations. Mathematical Modelling of Natural Phenomena, 2012, 7, 147-167.	2.4	23
12	Families of traveling impulses and fronts in some models with cross-diffusion. Nonlinear Analysis: Real World Applications, 2008, 9, 1866-1881.	1.7	15
13	On the asymptotic behaviour of the solutions to the replicator equation. Mathematical Medicine and Biology, 2011, 28, 89-110.	1.2	14
14	Linear algebra of the permutation invariant Crow–Kimura model of prebiotic evolution. Mathematical Biosciences, 2014, 256, 42-57.	1.9	14
15	Exact solutions for the selection–mutation equilibrium in the Crow–Kimura evolutionary model. Mathematical Biosciences, 2015, 266, 1-9.	1.9	9
16	Adaptive fitness landscape for replicator systems: to maximize or not to maximize. Mathematical Modelling of Natural Phenomena, 2018, 13, 25.	2.4	9
17	A note on the replicator equation with explicit space and global regulation. Mathematical Biosciences and Engineering, 2011, 8, 659-676.	1.9	8
18	Replicator Equations and Space. Mathematical Modelling of Natural Phenomena, 2014, 9, 47-67.	2.4	7

#	ARTICLE	IF	CITATIONS
19	Existence and stability of stationary solutions to spatially extended autocatalytic and hypercyclic systems under global regulation and with nonlinear growth rates. <i>Nonlinear Analysis: Real World Applications</i> , 2010, 11, 1897-1917.	1.7	6
20	On the behavior of the leading eigenvalue of Eigen's evolutionary matrices. <i>Mathematical Biosciences</i> , 2014, 258, 134-147.	1.9	6
21	Modeling the dynamics of inhomogeneous natural rotifer populations under toxicant exposure. <i>Ecological Modelling</i> , 2008, 212, 80-85.	2.5	5
22	On Diffusive Stability of Eigen's Quasispecies Model. <i>Journal of Dynamical and Control Systems</i> , 2016, 22, 1-14.	0.8	5
23	Generalized quasispecies model on finite metric spaces: isometry groups and spectral properties of evolutionary matrices. <i>Journal of Mathematical Biology</i> , 2019, 78, 837-878.	1.9	5
24	On the reaction-diffusion replicator systems: spatial patterns and asymptotic behaviour. <i>Russian Journal of Numerical Analysis and Mathematical Modelling</i> , 2012, 26, .	0.6	4
25	On Eigen's Quasispecies Model, Two-Valued Fitness Landscapes, and Isometry Groups Acting on Finite Metric Spaces. <i>Bulletin of Mathematical Biology</i> , 2016, 78, 991-1038.	1.9	4
26	How trait distributions evolve in populations with parametric heterogeneity. <i>Mathematical Biosciences</i> , 2019, 315, 108235.	1.9	4
27	Open quasispecies models: Stability, optimization, and distributed extension. <i>Journal of Mathematical Analysis and Applications</i> , 2020, 481, 123477.	1.0	4
28	Solutions with a bounded support promote permanence of a distributed replicator equation. <i>Applicable Analysis</i> , 2017, 96, 2652-2668.	1.3	2
29	Rigorous Mathematical Analysis of the Quasispecies Model: From Manfred Eigen to the Recent Developments. <i>STEAM-H: Science, Technology, Engineering, Agriculture, Mathematics & Health</i> , 2019, , 27-51.	0.0	2
30	Origin and evolution of the genetic code: The universal enigma. <i>IUBMB Life</i> , 2009, 61, spcone-spcone.	3.4	1