

Ryszard Rudnicki

List of Publications by Year in descending order

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81
papers

1,326
citations

430442

18
h-index

377514

34
g-index

85
all docs

85
docs citations

85
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	Cell cycle length and long-time behavior of an age-size model. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 5797-5820.	1.2	3
2	Replicator dynamics for the game theoretic selection models based on state. <i>Journal of Theoretical Biology</i> , 2020, 526, 110540.	0.8	1
3	On convergence and asymptotic behaviour of semigroups of operators. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190613.	1.6	0
4	From nest site lottery to host lottery: continuous model of growth suppression driven by the availability of nest sites for newborns or hosts for parasites and its impact on the selection of life history strategies. <i>Theory in Biosciences</i> , 2020, 139, 171-188.	0.6	2
5	Dynamics of antibody levels: Asymptotic properties. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 10490-10499.	1.2	4
6	Asymptotic Properties of Stochastic Semigroups with Applications to Piecewise Deterministic Markov Processes. <i>Springer Proceedings in Mathematics and Statistics</i> , 2020, , 329-347.	0.1	0
7	Applications of stochastic semigroups to cell cycle models. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2019, 24, 2365-2381.	0.5	2
8	One and two-phase cell cycle models. <i>Biomath</i> , 2019, 8, 1905261.	0.3	0
9	Asymptotic decomposition of substochastic semigroups and applications. <i>Stochastics and Dynamics</i> , 2018, 18, 1850001.	0.6	13
10	Stability of stochastic semigroups and applications to Stein's neuronal model. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2018, 23, 377-385.	0.5	3
11	Does assortative mating lead to a polymorphic population? A toy model justification. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2018, 23, 459-472.	0.5	0
12	Nest site lottery revisited: towards a mechanistic model of population growth suppressed by the availability of nest sites. <i>Journal of Theoretical Biology</i> , 2017, 420, 279-289.	0.8	10
13	On Asymptotic Stability and Sweeping of Collisionless Kinetic Equations. <i>Acta Applicandae Mathematicae</i> , 2017, 147, 19-38.	0.5	10
14	Piecewise Deterministic Processes in Biological Models. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , .	0.2	28
15	Biological Models. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 1-32.	0.2	2
16	Asymptotic Properties of Stochastic Semigroups Applications. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 129-147.	0.2	0
17	Operator Semigroups. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 63-82.	0.2	0
18	Markov Processes. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2017, , 33-62.	0.2	0

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19	Stochastic Semigroups. SpringerBriefs in Applied Sciences and Technology, 2017, , 83-114.	0.2	0
20	Asymptotic decomposition of substochastic operators and semigroups. Journal of Mathematical Analysis and Applications, 2016, 436, 305-321.	0.5	17
21	Stochastic Operators and Semigroups and Their Applications in Physics and Biology. Lecture Notes in Mathematics, 2015, , 255-318.	0.1	10
22	On a stochastic gene expression with pre-mRNA, mRNA and protein contribution. Journal of Theoretical Biology, 2015, 387, 54-67.	0.8	8
23	An ergodic theory approach to chaos. Discrete and Continuous Dynamical Systems, 2015, 35, 757-770.	0.5	5
24	Model of phenotypic evolution in hermaphroditic populations. Journal of Mathematical Biology, 2015, 70, 1295-1321.	0.8	11
25	Piecewise Deterministic Markov Processes in Biological Models. Springer Proceedings in Mathematics and Statistics, 2015, , 235-255.	0.1	13
26	SIZE DISTRIBUTION OF GENE FAMILIES IN A GENOME. Mathematical Models and Methods in Applied Sciences, 2014, 24, 697-717.	1.7	13
27	On a nonlinear age-structured model of semelparous species. Discrete and Continuous Dynamical Systems - Series B, 2014, 19, 2641-2656.	0.5	6
28	Stochastic semigroups and their applications to biological models. Demonstratio Mathematica, 2012, 45, .	0.6	1
29	Asynchronous Exponential Growth of a General Structured Population Model. Acta Applicandae Mathematicae, 2012, 119, 149-166.	0.5	39
30	Chaoticity and invariant measures for a cell population model. Journal of Mathematical Analysis and Applications, 2012, 393, 151-165.	0.5	19
31	Stochastic Optimal Growth with Nonconvexities. , 2012, , 261-288.		1
32	Asymptotic Analysis of a Semelparous Species Model. Fundamenta Informaticae, 2010, 103, 219-233.	0.3	2
33	Chaoticity of the blood cell production system. Chaos, 2009, 19, 043112.	1.0	6
34	Global Solvability of a Fragmentation-Coagulation Equation With Growth and Restricted Coagulation. Journal of Nonlinear Mathematical Physics, 2009, 16, 13.	0.8	7
35	Models of population dynamics and their applications in genetics. Series on Advances in Mathematics for Applied Sciences, 2009, , 103-147.	0.0	6
36	Reinforced walk on graphs and neural networks. Studia Mathematica, 2008, 189, 255-268.	0.4	2

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37	A DISCRETE MODEL OF EVOLUTION OF SMALL PARALOG FAMILIES. <i>Mathematical Models and Methods in Applied Sciences</i> , 2007, 17, 933-955.	1.7	12
38	Influence of stochastic perturbation on prey-predator systems. <i>Mathematical Biosciences</i> , 2007, 206, 108-119.	0.9	133
39	Asymptotic behavior of distributions of mRNA and protein levels in a model of stochastic gene expression. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 333, 753-769.	0.5	45
40	Stochastic optimal growth with nonconvexities. <i>Journal of Mathematical Economics</i> , 2006, 42, 74-96.	0.4	12
41	A model for the evolution of paralog families in genomes. <i>Journal of Mathematical Biology</i> , 2006, 53, 759-770.	0.8	11
42	Fragmentation-Coagulation Models of Phytoplankton. <i>Bulletin of the Polish Academy of Sciences Mathematics</i> , 2006, 54, 175-191.	0.4	26
43	The diffusion in the quantum Smoluchowski equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2005, 351, 60-68.	1.2	31
44	Approximation of delays in biochemical systems. <i>Mathematical Biosciences</i> , 2005, 198, 190-216.	0.9	34
45	Chaos for some infinite-dimensional dynamical systems. <i>Mathematical Methods in the Applied Sciences</i> , 2004, 27, 723-738.	1.2	23
46	Phytoplankton dynamics. <i>Comptes Rendus - Biologies</i> , 2004, 327, 961-969.	0.1	22
47	A Case Study of Genome Evolution: From Continuous to Discrete Time Model. <i>Lecture Notes in Computer Science</i> , 2004, , 1-24.	1.0	5
48	Long-time behaviour of a stochastic prey-predator model. <i>Stochastic Processes and Their Applications</i> , 2003, 108, 93-107.	0.4	166
49	Finite volume effects in a model grain growth. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 325, 284-291.	1.2	8
50	Pointwise dimensions and Rényi dimensions. <i>Proceedings of the American Mathematical Society</i> , 2002, 130, 1981-1982.	0.4	3
51	On the Box Dimension of Typical Measures. <i>Monatshefte Fur Mathematik</i> , 2002, 136, 143-150.	0.5	4
52	Stability versus chaos for a partial differential equation. <i>Chaos, Solitons and Fractals</i> , 2002, 14, 607-612.	2.5	5
53	On the typical structure of compact sets. <i>Archiv Der Mathematik</i> , 2001, 76, 119-126.	0.3	6
54	Continuous Markov Semigroups and Stability of Transport Equations. <i>Journal of Mathematical Analysis and Applications</i> , 2000, 249, 668-685.	0.5	78

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55	Modeling Complex Neutrophil Dynamics in the Grey Collie. Journal of Theoretical Biology, 2000, 204, 505-519.	0.8	63
56	Box and Packing Dimensions of Typical Compact Sets. Monatshefte Fur Mathematik, 2000, 131, 223-226.	0.5	10
57	MARKOV SEMIGROUPS AND STABILITY OF THE CELL MATURITY DISTRIBUTION. Journal of Biological Systems, 2000, 08, 69-94.	0.5	17
58	Global stability of cellular populations with unequal division. , 2000, 8, 185-202.		11
59	Markov operators: applications to diffusion processes and population dynamics. Applicationes Mathematicae, 2000, 27, 67-79.	0.1	4
60	Strong and weak stability of some Markov operators. Colloquium Mathematicum, 2000, 84, 255-263.	0.2	0
61	Random walk with memory. Journal of Mathematical Physics, 1999, 40, 3072-3083.	0.5	3
62	A new criterion for the global stability of simultaneous cell replication and maturation processes. Journal of Mathematical Biology, 1999, 38, 195-219.	0.8	44
63	Further comments on "Vector norms as Lyapunov functions for linear systems". IEEE Transactions on Automatic Control, 1998, 43, 289-291.	3.6	22
64	Stability of Markov Semigroups and Applications to Parabolic Systems. Journal of Mathematical Analysis and Applications, 1997, 215, 56-74.	0.5	65
65	Randomly flashing diffusion: Asymptotic properties. Journal of Statistical Physics, 1996, 83, 1149-1164.	0.5	8
66	Stability inL 1 of some integral operators. Integral Equations and Operator Theory, 1996, 24, 320-327.	0.4	4
67	LONG-TIME ASYMPTOTICS FOR DIFFUSING CLUSTERS WITH POISSON GROWTH STATISTICS. Fractals, 1996, 04, 543-546.	1.8	3
68	Limit theorems for stochastically perturbed dynamical systems. Journal of Applied Probability, 1995, 32, 459-469.	0.4	9
69	Asymptotic properties of the Fokker-Planck equation. , 1995, , 517-521.		6
70	Global stability in a delayed partial differential equation describing cellular replication. Journal of Mathematical Biology, 1994, 33, 89-109.	0.8	80
71	Asymptotic Similarity and Malthusian Growth in Autonomous and Nonautonomous Populations. Journal of Mathematical Analysis and Applications, 1994, 187, 548-566.	0.5	10
72	Asymptotical Stability in L1 of Parabolic Equations. Journal of Differential Equations, 1993, 102, 391-401.	1.1	12

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73	Strangely sweeping one-dimensional diffusion. <i>Annales Polonici Mathematici</i> , 1993, 58, 37-45.	0.2	3
74	Asymptotic behaviour of a transport equation. <i>Annales Polonici Mathematici</i> , 1992, 57, 45-55.	0.2	6
75	A note on the convolution and the product in D^2 and S^2 . <i>International Journal of Mathematics and Mathematical Sciences</i> , 1991, 14, 275-282.	0.3	0
76	Relative entropy and stability of stochastic semigroups. <i>Annales Polonici Mathematici</i> , 1991, 53, 139-145.	0.2	11
77	On a one-dimensional analogue of the Smale horseshoe. <i>Annales Polonici Mathematici</i> , 1991, 54, 147-153.	0.2	5
78	Strong ergodic properties of a first-order partial differential equation. <i>Journal of Mathematical Analysis and Applications</i> , 1988, 133, 14-26.	0.5	27
79	Stability of iterates of Markov operators. <i>Annales Polonici Mathematici</i> , 1988, 48, 95-104.	0.2	1
80	Invariant measures for the flow of a first order partial differential equation. <i>Ergodic Theory and Dynamical Systems</i> , 1985, 5, 437-443.	0.4	31
81	Does a population with the highest turnover coefficient win competition?. <i>Journal of Difference Equations and Applications</i> , 0, , 1-13.	0.7	2