Tânia Tomé

List of Publications by Year
in descending order

83 papers	2,015 citations	279778 23 h-index	254170 43 g-index
84 all docs	84 docs citations	84 times ranked	958 citing authors

#	Article	IF	Citations
1	Effect of immunization through vaccination on the SIS epidemic spreading model. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 275602.	2.1	1
2	Stochastic Approach to Epidemic Spreading. Brazilian Journal of Physics, 2020, 50, 832-843.	1.4	9
3	Analysis of earlier times and flux of entropy on the majority voter model with diffusion. Physical Review E, 2020, 101, 012130.	2.1	5
4	The critical behavior of the entropy production in irreversible models with $\mathscr{C}_{3u}$ symmetry. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 385002.	2.1	1
5	Stochastic dynamics for two biological species and ecological niches. Physica A: Statistical Mechanics and Its Applications, 2018, 489, 56-64.	2.6	1
6	Entropy production in a Glauber–Ising irreversible model with dynamical competition. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 063202.	2.3	2
7	Stochastic thermodynamics and entropy production of chemical reaction systems. Journal of Chemical Physics, 2018, 148, 224104.	3.0	9
8	Stochastic spatial structured model for vertically and horizontally transmitted infection. Physica A: Statistical Mechanics and Its Applications, 2017, 468, 131-138.	2.6	3
9	Susceptible–infected–recovered model with recurrent infection. Physica A: Statistical Mechanics and Its Applications, 2017, 467, 21-29.	2.6	11
10	Threshold of coexistence and critical behavior of a predator-prey stochastic model in a fractal landscape. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 083204.	2.3	1
11	Stationary and dynamic critical behavior of the contact process on the Sierpinski carpet. Physical Review E, 2015, 91, 052137.	2.1	4
12	Critical properties of the susceptible-exposed-infected model on a square lattice. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P04014.	2.3	5
13	Entropy production for asymmetric diffusion of particles. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P12004.	2.3	1
14	Critical behavior in lattice models with two symmetric absorbing states. Journal of Statistical Mechanics: Theory and Experiment, 2015, 2015, P01035.	2.3	4
15	Stochastic approach to equilibrium and nonequilibrium thermodynamics. Physical Review E, 2015, 91, 042140.	2.1	66
16	Stochastic Dynamics and Irreversibility. Graduate Texts in Physics, 2015, , .	0.2	60
17	Stochastic dynamics of dengue epidemics. Physical Review E, 2013, 87, 012709.	2.1	12
18	Entropy production in linear Langevin systems. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 395001.	2.1	32

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19	Exact correlation functions in particle-reaction models with immobile particles. Journal of Statistical Mechanics: Theory and Experiment, 2012, 2012, P11006.	2.3	2
20	Entropy Production in Nonequilibrium Systems at Stationary States. Physical Review Letters, 2012, 108, 020601.	7.8	118
21	Susceptible-infected-recovered and susceptible-exposed-infected models. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 095005.	2.1	29
22	A new scale-invariant ratio and finite-size scaling for the stochastic susceptible–infected–recovered model. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P03006.	2.3	17
23	Aging and stationary properties of non-equilibrium symmetrical three-state models. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P02018.	2.3	2
24	Entropy production in irreversible systems described by a Fokker-Planck equation. Physical Review E, 2010, 82, 021120.	2.1	105
25	Stochastic lattice gas model describing the dynamics of the SIRS epidemic process. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 1142-1150.	2.6	47
26	CRITICAL BEHAVIOR AND THRESHOLD OF COEXISTENCE OF A PREDATOR–PREY STOCHASTIC MODEL IN A 2D LATTICE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 309-314.	1.7	7
27	Critical behavior of the susceptible-infected-recovered model on a square lattice. Physical Review E, 2010, 82, 051921.	2.1	56
28	Aging and fluctuation-dissipation ratio in a nonequilibrium q-state lattice model. Physical Review E, 2010, 82, 011133.	2.1	4
29	Probability currents and entropy production in nonequilibrium lattice systems. Physical Review E, 2010, 82, 011105.	2.1	19
30	Role of noise in population dynamics cycles. Physical Review E, 2009, 79, 061128.	2.1	19
31	The stochastic nature of predator–prey cycles. Computer Physics Communications, 2009, 180, 536-539.	7.5	3
32	Conservative ensembles for nonequilibrium lattice-gas systems. European Physical Journal B, 2008, 64, 409-414.	1.5	2
33	Time correlation function in systems with two coexisting biological species. Physical Review E, 2008, 77, 061909.	2.1	12
34	Reaction-diffusion stochastic lattice model for a predator-prey system. Brazilian Journal of Physics, 2008, 38, .	1.4	6
35	The threshold of coexistence and critical behaviour of a predator–prey cellular automaton. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 887-900.	2.1	31
36	Stable oscillations of a predator–prey probabilistic cellular automaton: a mean-field approach. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 12901-12915.	2.1	15

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37	Anisotropic probabilistic cellular automaton for a predator-prey system. Brazilian Journal of Physics, 2007, 37, 466-471.	1.4	2
38	Entropy production in nonequilibrium systems described by a Fokker-Planck equation. Brazilian Journal of Physics, 2006, 36, 1285-1289.	1.4	83
39	Fluctuation-dissipation theorem and the linear Glauber model. Physical Review E, 2006, 73, 056117.	2.1	10
40	SELF-ORGANIZED PATTERNS OF COEXISTENCE OUT OF A PREDATOR-PREY CELLULAR AUTOMATON. International Journal of Modern Physics C, 2006, 17, 1647-1662.	1.7	23
41	Mario SchÃ¶nberg e a introduÃ§Ã£o do espaÃ§o de Fock na fÃsica estatÃstica clÃ¡ssica. Revista Brasileira De Ensino De Fisica, 2005, 27, 447-462.	0.2	4
42	Stationary distribution of finite-size systems with absorbing states. Physical Review E, 2005, 72, 026130.	2.1	12
43	Entropy production in the majority-vote model. Physical Review E, 2005, 72, 057103.	2.1	61
44	Glassy states in lattice models with many coexisting crystalline phases. Europhysics Letters, 2004, 65, 20-26.	2.0	16
45	PROBABILISTIC CELLULAR AUTOMATA DESCRIBING A BIOLOGICAL TWO-SPECIES SYSTEM. Modern Physics Letters B, 2004, 18, 873-880.	1.9	11
46	Crystal vs. glass formation in lattice models with many coexisting ordered phases. Physica A: Statistical Mechanics and Its Applications, 2004, 342, 97-103.	2.6	11
47	Emergence of Glassy States in Lattice Models with no a Priori Disorder. AIP Conference Proceedings, 2003, , .	0.4	0
48	Stochastic dynamics of coupled systems and damage spreading. Brazilian Journal of Physics, 2003, 33, 458-463.	1.4	2
49	Sandpiles with height restrictions. Physical Review E, 2002, 66, 016111.	2.1	45
50	Cumulants of the three-state Potts model and of nonequilibrium models with C3v symmetry. Journal of Physics A, 2002, 35, 5379-5390.	1.6	23
51	SHORT TIME CORRELATIONS IN A TWO-DIMENSIONAL ISING MODEL WITH A LINE OF DEFECTS. Modern Physics Letters B, 2001, 15, 1141-1146.	1.9	4
52	Nonequilibrium Model for the Contact Process in an Ensemble of Constant Particle Number. Physical Review Letters, 2001, 86, 5643-5646.	7.8	37
53	Symmetry and universality in nonequilibrium models. Physica A: Statistical Mechanics and Its Applications, 2000, 283, 107-112.	2.6	3
54	Short-time behavior and universality in irreversible models. Brazilian Journal of Physics, 2000, 30, 152-156.	1.4	5

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55	Universal behavior in an irreversible model with C3v symmetry. Physical Review E, 1999, 60, 3666-3669.	2.1	26
56	CRITICAL BEHAVIOR OF A FOUR-STATE IRREVERSIBLE MODEL WITH POTTS SYMMETRY. Modern Physics Letters B, 1999, 13, 471-477.	1.9	4
57	Critical behavior of a probabilistic cellular automaton describing a biological system. Physica A: Statistical Mechanics and Its Applications, 1998, 255, 189-200.	2.6	12
58	Irreversible stochastic dynamics with Potts symmetry. Physica A: Statistical Mechanics and Its Applications, 1998, 257, 334-340.	2.6	6
59	Nonclassical critical exponents out of mean-field results. Physica A: Statistical Mechanics and Its Applications, 1998, 260, 99-105.	2.6	2
60	Short Time Dynamics of an Irreversible Probabilistic Cellular Automaton. Modern Physics Letters B, 1998, 12, 873-879.	1.9	15
61	Short-time dynamics of critical nonequilibrium spin models. Physical Review E, 1998, 58, 4242-4245.	2.1	52
62	Renormalization group of the Domany-Kinzel cellular automaton. Physical Review E, 1997, 55, 4000-4004.	2.1	14
63	Joint Evolution of Two Domany–Kinzel Cellular Automata. International Journal of Modern Physics B, 1997, 11, 1245-1255.	2.0	3
64	Spatial instabilities and local oscillations in a lattice gas Lotka-Volterra model. Journal of Mathematical Biology, 1997, 35, 344-358.	1.9	22
65	Stochastic mechanics of nonequilibrium systems. Brazilian Journal of Physics, 1997, 27, 525-532.	1.4	3
66	Probabilistic cellular automaton describing a biological immune system. Physical Review E, 1996, 53, 3976-3981.	2.1	25
67	Stochastic lattice gas model for a predator-prey system. Physical Review E, 1994, 49, 5073-5079.	2.1	142
68	Inhomogeneous random sequential adsorption on bipartite lattices. Physical Review E, 1994, 50, 4523-4527.	2.1	4
69	Spreading of damage in the Domany-Kinzel cellular automaton: A mean-field approach. Physica A: Statistical Mechanics and Its Applications, 1994, 212, 99-109.	2.6	23
70	Chiral-symmetry-breaking in nonequilibrium chemical systems: The racemization influence. Origins of Life and Evolution of Biospheres, 1993, 23, 125-136.	1.9	1
71	Ziff-Gulari-Barshad model with CO desorption: An Ising-like nonequilibrium critical point. Physical Review E, 1993, 47, 948-952.	2.1	58
72	Anisotropic random sequential adsorption of dimers on a square lattice. Physical Review A, 1992, 46, 6294-6299.	2.5	27

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73	Non-equilibrium Ising model with competing Glauber dynamics. Journal of Physics A, 1991, 24, 3677-3686.	1.6	44
74	First-order phase transition in a one-dimensional nonequilibrium model. Physical Review A, 1991, 44, 4833-4838.	2.5	74
75	Decay-kinetics study of atomic hydrogen ina-Si:(H,O,N) and natural beryl. Physical Review B, 1990, 42, 5966-5972.	3.2	11
76	Dynamic phase transition in the kinetic Ising model under a time-dependent oscillating field. Physical Review A, 1990, 41, 4251-4254.	2.5	287
77	Self-organization in a kinetic Ising model. Physical Review A, 1989, 40, 6643-6646.	2.5	55
78	Modulated phases and chaotic behavior in a spin-1 Ising model with competing interactions. Physical Review A, 1989, 39, 2206-2213.	2.5	11
79	Complete devil's staircase in an Ising model with competing interactions. Journal of Physics A, 1988, 21, L311-L314.	1.6	2
80	Polar semiconductors under continuous photoexcitation. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1987, 144, 376-390.	0.9	7
81	Steady state of photoexcited plasma in semiconductors. Solid State Communications, 1986, 59, 661-663.	1.9	2
82	Effect of Immunization Through Vaccination on Deterministic Models for Epidemic Spreading. Brazilian Journal of Physics, 0, , 1.	1.4	3
83	Epidemic spreading. Revista Brasileira De Ensino De Fisica, 0, 42, .	0.2	5