

Tobias Galla

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

1,274
citations

20
h-index

30
g-index

111
ext. papers

1,548
ext. citations

3.5
avg, IF

5.22
L-index

#	Paper	IF	Citations
104	Eigenvalues of Random Matrices with Generalized Correlations: A Path Integral Approach.. <i>Physical Review Letters</i> , 2022 , 128, 120601	7.4	0
103	Towards a taxonomy of learning dynamics in 2 \mathbb{D} games?. <i>Games and Economic Behavior</i> , 2021 , 132, 1-1	1.1	0
102	Switching environments, synchronous sex, and the evolution of mating types. <i>Theoretical Population Biology</i> , 2021 , 138, 28-42	1.2	0
101	Beyond the adiabatic limit in systems with fast environments: A leaping algorithm. <i>Physical Review E</i> , 2021 , 104, 014122	2.4	0
100	Degree irregularity and rank probability bias in network meta-analysis. <i>Research Synthesis Methods</i> , 2021 , 12, 316-332	7.2	2
99	Competition delays multi-drug resistance evolution during combination therapy. <i>Journal of Theoretical Biology</i> , 2021 , 509, 110524	2.3	2
98	Zealots in multistate noisy voter models. <i>Physical Review E</i> , 2021 , 103, 012311	2.4	3
97	Geospatial distributions reflect temperatures of linguistic features. <i>Science Advances</i> , 2021 , 7,	14.3	3
96	First-passage times and normal tissue complication probabilities in the limit of large populations. <i>Scientific Reports</i> , 2020 , 10, 8786	4.9	0
95	Ecological communities from random generalized Lotka-Volterra dynamics with nonlinear feedback. <i>Physical Review E</i> , 2020 , 101, 032101	2.4	8
94	Dispersal-induced instability in complex ecosystems. <i>Nature Communications</i> , 2020 , 11, 6032	17.4	7
93	Stochastic fluctuations and quasipattern formation in reaction-diffusion systems with anomalous transport. <i>Physical Review E</i> , 2019 , 99, 052124	2.4	4
92	Classical stochastic systems with fast-switching environments: Reduced master equations, their interpretation, and limits of validity. <i>Physical Review E</i> , 2019 , 99, 032121	2.4	5
91	Model reduction methods for population dynamics with fast-switching environments: Reduced master equations, stochastic differential equations, and applications. <i>Physical Review E</i> , 2019 , 99, 032122	2.4	6
90	Effective diffusion coefficients in reaction-diffusion systems with anomalous transport. <i>Physical Review E</i> , 2019 , 99, 012212	2.4	1
89	Motion, fixation probability and the choice of an evolutionary process. <i>PLoS Computational Biology</i> , 2019 , 15, e1007238	5	2
88	Consensus and diversity in multistate noisy voter models. <i>Physical Review E</i> , 2019 , 100, 022304	2.4	15

87	Quantitative single-cell live imaging links HES5 dynamics with cell-state and fate in murine neurogenesis. <i>Nature Communications</i> , 2019 , 10, 2835	17.4	24
86	Intrinsic noise, Delta-Notch signalling and delayed reactions promote sustained, coherent, synchronized oscillations in the presomitic mesoderm. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20190436	4.1	3
85	Phenotypic switching of populations of cells in a stochastic environment. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018 , 2018, 023501	1.9	11
84	Stirring does not make populations well mixed. <i>Scientific Reports</i> , 2018 , 8, 4068	4.9	12
83	The prevalence of chaotic dynamics in games with many players. <i>Scientific Reports</i> , 2018 , 8, 4902	4.9	12
82	Progress of the attractiveness of Rheumatology among medical speciality training candidates (MIR) in Spain. <i>Reumatología Clínica</i> , 2018 , 14, 150-154	0.9	0
81	Progress of the Attractiveness of Rheumatology Among Medical Speciality Training Candidates (MIR) in Spain. <i>Reumatología Clínica (English Edition)</i> , 2018 , 14, 150-154	0.1	
80	How successful are mutants in multiplayer games with fluctuating environments? Sojourn times, fixation and optimal switching. <i>Royal Society Open Science</i> , 2018 , 5, 172176	3.3	1
79	Dynamically evolved community size and stability of random Lotka-Volterra ecosystems (a). <i>Europhysics Letters</i> , 2018 , 123, 48004	1.6	17
78	Mechanisms of stochastic onset and termination of atrial fibrillation studied with a cellular automaton model. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	16
77	Time scales and species coexistence in chaotic flows. <i>Europhysics Letters</i> , 2017 , 117, 68001	1.6	3
76	Effects of population growth on the success of invading mutants. <i>Journal of Theoretical Biology</i> , 2017 , 420, 232-240	2.3	9
75	The effects of heterogeneity on stochastic cycles in epidemics. <i>Scientific Reports</i> , 2017 , 7, 13008	4.9	2
74	A Taxonomy of Learning Dynamics in 2 2 Games. <i>SSRN Electronic Journal</i> , 2017 ,	1	1
73	Stochastic evolution in populations of ideas. <i>Scientific Reports</i> , 2017 , 7, 40580	4.9	4
72	Bursting noise in gene expression dynamics: linking microscopic and mesoscopic models. <i>Journal of the Royal Society Interface</i> , 2016 , 13, 20150772	4.1	29
71	Intrinsic noise in systems with switching environments. <i>Physical Review E</i> , 2016 , 93, 052119	2.4	50
70	Stochastic transport in the presence of spatial disorder: Fluctuation-induced corrections to homogenization. <i>Physical Review E</i> , 2016 , 94, 042121	2.4	3

69	A Stochastic Individual-Based Model of the Progression of Atrial Fibrillation in Individuals and Populations. <i>PLoS ONE</i> , 2016 , 11, e0152349	3.7	9
68	Emergence of Cooperative Long-Term Market Loyalty in Double Auction Markets. <i>PLoS ONE</i> , 2016 , 11, e0154606	3.7	4
67	Stochasticity in the miR-9/Hes1 oscillatory network can account for clonal heterogeneity in the timing of differentiation. <i>ELife</i> , 2016 , 5,	8.9	28
66	Fitness-based models and pairwise comparison models of evolutionary games are typically different—Even in unstructured populations. <i>New Journal of Physics</i> , 2015 , 17, 023043	2.9	35
65	Stochastic tunneling and metastable states during the somatic evolution of cancer. <i>Genetics</i> , 2015 , 199, 1213-28	4	9
64	Competition for resources can explain patterns of social and individual learning in nature. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282,	4.4	17
63	When the mean is not enough: Calculating fixation time distributions in birth-death processes. <i>Physical Review E</i> , 2015 , 92, 042154	2.4	13
62	Generating functionals and Gaussian approximations for interruptible delay reactions. <i>Physical Review E</i> , 2015 , 92, 042105	2.4	
61	Decentralized Optimisation of Resource Allocation in Disaster Management 2015 , 89-106		1
60	Assessing measures of atrial fibrillation clustering via stochastic models of episode recurrence and disease progression 2015 ,		1
59	Quantitative Decision-Making Rules for the Next Generation of Smarter Evacuations 2015 , 63-87		
58	Gaussian approximations for stochastic systems with delay: chemical Langevin equation and application to a Brusselator system. <i>Journal of Chemical Physics</i> , 2014 , 140, 124112	3.9	15
57	microRNA input into a neural ultradian oscillator controls emergence and timing of alternative cell states. <i>Nature Communications</i> , 2014 , 5, 3399	17.4	38
56	Fixation in finite populations evolving in fluctuating environments. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140663	4.1	49
55	Pattern formation in individual-based systems with time-varying parameters. <i>Physical Review E</i> , 2013 , 88, 062104	2.4	2
54	Complex dynamics in learning complicated games. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 1232-6	11.5	90
53	Stochastic processes with distributed delays: chemical Langevin equation and linear-noise approximation. <i>Physical Review Letters</i> , 2013 , 110, 250601	7.4	47
52	Demographic noise and resilience in a semi-arid ecosystem model. <i>Ecological Complexity</i> , 2013 , 15, 97-108	6	12

51	Computing complexity measures for quantum states based on exponential families. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 125301	2	17
50	Voter models with conserved dynamics. <i>Physical Review E</i> , 2013 , 87, 052114	2.4	4
49	Stochastic oscillations of adaptive networks: application to epidemic modelling. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P08018	1.9	18
48	The mechanics of stochastic slowdown in evolutionary games. <i>Journal of Theoretical Biology</i> , 2012 , 311, 94-106	2.3	31
47	Mixing times in evolutionary game dynamics. <i>Physical Review Letters</i> , 2012 , 109, 028101	7.4	23
46	Demographic noise and piecewise deterministic Markov processes. <i>Physical Review E</i> , 2012 , 86, 011137	2.4	8
45	Effects of noise on convergent game-learning dynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012 , 45, 105001	2	3
44	Fluctuations in meta-population exclusion processes. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P03008	1.9	
43	Relative population size, cooperation pressure and strategy correlation in two-population evolutionary dynamics. <i>Philosophical Magazine</i> , 2012 , 92, 324-340	1.6	3
42	Agent-specific impact of single trades in financial markets. <i>Physical Review E</i> , 2012 , 85, 036103	2.4	6
41	Complexity measures, emergence, and multiparticle correlations. <i>Physical Review E</i> , 2012 , 85, 046209	2.4	9
40	Fixation and escape times in stochastic game learning. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012 , 2012, P10022	1.9	6
39	Stochastic waves in a Brusselator model with nonlocal interaction. <i>Physical Review E</i> , 2011 , 84, 026201	2.4	33
38	Cycles of cooperation and defection in imperfect learning. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, N08001	1.9	2
37	Imitation, internal absorption and the reversal of local drift in stochastic evolutionary games. <i>Journal of Theoretical Biology</i> , 2011 , 269, 46-56	2.3	11
36	Optimizing evacuation flow in a two-channel exclusion process. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P09004	1.9	4
35	Cycles of cooperation and defection in imperfect learning. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011 , 2011, P08007	1.9	10
34	Learning dynamics in public goods games. <i>Physical Review E</i> , 2011 , 84, 041132	2.4	6

33	ON NON-ERGODIC PHASES IN MINORITY GAMES. <i>New Mathematics and Natural Computation</i> , 2011 , 07, 249-265	0.6	1
32	Evolutionary dynamics, intrinsic noise, and cycles of cooperation. <i>Physical Review E</i> , 2010 , 81, 066122	2.4	43
31	Independence and interdependence in the nest-site choice by honeybee swarms: Agent-based models, analytical approaches and pattern formation. <i>Journal of Theoretical Biology</i> , 2010 , 262, 186-96	2.3	8
30	Intrinsic fluctuations in stochastic delay systems: theoretical description and application to a simple model of gene regulation. <i>Physical Review E</i> , 2009 , 80, 021909	2.4	39
29	Limit cycles, complex Floquet multipliers, and intrinsic noise. <i>Physical Review E</i> , 2009 , 79, 051131	2.4	48
28	Intrinsic noise in game dynamical learning. <i>Physical Review Letters</i> , 2009 , 103, 198702	7.4	36
27	Effects of noise and confidence thresholds in nominal and metric Axelrod dynamics of social influence. <i>Physical Review E</i> , 2009 , 79, 046108	2.4	30
26	Minority games, evolving capitals and replicator dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009 , 2009, P11012	1.9	11
25	Spherical grand-canonical minority games with and without score discounting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 095007	2	1
24	Stability and dynamical properties of material flow systems on random networks. <i>European Physical Journal B</i> , 2009 , 68, 587-600	1.2	2
23	Effects of Tobin taxes in minority game markets. <i>Journal of Economic Behavior and Organization</i> , 2009 , 70, 231-240	1.6	21
22	How limit cycles and quasi-cycles are related in systems with intrinsic noise. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008 , 2008, P09001	1.9	42
21	The transition to efficiency in minority games. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 324003	2	5
20	Algebraic coarsening in voter models with intermediate states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008 , 41, 435003	2	20
19	Rank abundance relations in evolutionary dynamics of random replicators. <i>Physical Review E</i> , 2008 , 78, 031924	2.4	13
18	Statistical mechanics and stability of a model eco-system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007 , 2007, P09003-P09003	1.9	18
17	Two-population replicator dynamics and number of Nash equilibria in matrix games. <i>Europhysics Letters</i> , 2007 , 78, 20005	1.6	9
16	Random replicators with asymmetric couplings. <i>Journal of Physics A</i> , 2006 , 39, 3853-3869		28

15	Adapting to heterogeneous comfort levels. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006 , 2006, P12004-P12004	1.9	6
14	Statistical mechanics of combinatorial auctions. <i>Physical Review Letters</i> , 2006 , 97, 128701	7.4	6
13	Price return autocorrelation and predictability in agent-based models of financial markets. <i>Quantitative Finance</i> , 2005 , 5, 569-576	1.6	5
12	Statistical mechanics of dilute batch minority games with random external information. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, P01002	1.9	1
11	Dynamics of random replicators with Hebbian interactions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, P11005-P11005	1.9	9
10	Dynamics of adaptive agents with asymmetric information. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, P08008-P08008	1.9	2
9	Stationary states of a spherical Minority Game with ergodicity breaking. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005 , 2005, P10009-P10009	1.9	6
8	The minority game: effects of strategy correlations and timing of adaptation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 324, 25-29	3.3	10
7	Defect formation in the Swift-Hohenberg equation. <i>Physical Review E</i> , 2003 , 67, 035101	2.4	10
6	Lattice supersymmetric ward identities. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002 , 106-107, 938-940		4
5	SUSY Ward identities in 1-loop perturbation theory. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2002 , 106-107, 941-943		6
4	SUSY Ward identities in N=1 SYM theory on the lattice. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001 , 94, 787-790		6
3	On the 1-loop lattice perturbation theory of the supersymmetric ward identities. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2001 , 94, 791-794		4
2	Quantitative single-cell live imaging links HES5 dynamics with cell-state and fate in murine neurogenesis		1
1	Mutators drive evolution of multi-resistance to antibiotics		2