

Richard A Blythe

List of Publications by Year in descending order

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74
papers

3,295
citations

236833

25
h-index

149623

56
g-index

74
all docs

74
docs citations

74
times ranked

1916
citing authors

#	ARTICLE	IF	CITATIONS
1	Language Is a Complex Adaptive System: Position Paper. <i>Language Learning</i> , 2009, 59, 1-26.	1.4	678
2	Nonequilibrium steady states of matrix-product form: a solver's guide. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, R333-R441.	0.7	536
3	Stochastic models of evolution in genetics, ecology and linguistics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2007, 2007, P07018-P07018.	0.9	144
4	S-curves and the mechanisms of propagation in language change. <i>Language</i> , 2012, 88, 269-304.	0.3	137
5	Modeling language change: An evaluation of Trudgill's theory of the emergence of New Zealand English. <i>Language Variation and Change</i> , 2009, 21, 257-296.	0.3	118
6	Cross-Situational Learning: An Experimental Study of Word-Learning Mechanisms. <i>Cognitive Science</i> , 2011, 35, 480-498.	0.8	111
7	Lattice models of nonequilibrium bacterial dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2011, 2011, P02029.	0.9	102
8	Utterance selection model of language change. <i>Physical Review E</i> , 2006, 73, 046118.	0.8	96
9	Jamming and Attraction of Interacting Run-and-Tumble Random Walkers. <i>Physical Review Letters</i> , 2016, 116, 218101.	2.9	79
10	The Lee-Yang theory of equilibrium and nonequilibrium phase transitions. <i>Brazilian Journal of Physics</i> , 2003, 33, 464-475.	0.7	76
11	Executive functions predict conceptual learning of science. <i>British Journal of Developmental Psychology</i> , 2016, 34, 261-275.	0.9	71
12	Building social cognitive models of language change. <i>Trends in Cognitive Sciences</i> , 2009, 13, 464-469.	4.0	66
13	How do communication systems emerge?. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 1943-1949.	1.2	62
14	Exact Asymptotics for One-Dimensional Diffusion with Mobile Traps. <i>Physical Review Letters</i> , 2002, 89, 150601.	2.9	61
15	Learning Times for Large Lexicons Through Cross-Situational Learning. <i>Cognitive Science</i> , 2010, 34, 620-642.	0.8	61
16	Fixation and Consensus Times on a Network: A Unified Approach. <i>Physical Review Letters</i> , 2008, 101, 258701.	2.9	56
17	Survival probability of a diffusing particle in the presence of Poisson-distributed mobile traps. <i>Physical Review E</i> , 2003, 67, 041101.	0.8	52
18	Nonequilibrium dynamics in low-dimensional systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 313, 110-152.	1.2	47

#	ARTICLE	IF	CITATIONS
19	Exact solution of the multi-allelic diffusion model. <i>Mathematical Biosciences</i> , 2007, 209, 124-170.	0.9	44
20	Why is combinatorial communication rare in the natural world, and why is language an exception to this trend?. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130520.	1.5	39
21	Assembly of microbial communities in replicate nutrient-cycling model ecosystems follows divergent trajectories, leading to alternate stable states. <i>Environmental Microbiology</i> , 2017, 19, 3374-3386.	1.8	39
22	Formal solution of a class of reaction-diffusion models: Reduction to a single-particle problem. <i>Physical Review E</i> , 2003, 67, 060102.	0.8	34
23	Exact solution of two interacting run-and-tumble random walkers with finite tumble duration. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 375601.	0.7	33
24	Exact spectral solution of two interacting run-and-tumble particles on a ring lattice. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 013204.	0.9	33
25	Stochastic Ballistic Annihilation and Coalescence. <i>Physical Review Letters</i> , 2000, 85, 3750-3753.	2.9	27
26	Momentum in Language Change. <i>Language Dynamics and Change</i> , 2016, 6, 171-198.	0.4	25
27	Cross-Situational Learning: A Mathematical Approach. <i>Lecture Notes in Computer Science</i> , 2006, , 31-44.	1.0	25
28	Ordering in voter models on networks: exact reduction to a single-coordinate diffusion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 385003.	0.7	23
29	NEUTRAL EVOLUTION: A NULL MODEL FOR LANGUAGE DYNAMICS. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1150015.	0.9	23
30	Mechanism for the failure of the Edwards hypothesis in the Sherrington-Kirkpatrick spin glass. <i>Physical Review B</i> , 2006, 74, .	1.1	22
31	Dynamical transition in the open-boundary totally asymmetric exclusion process. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 035003.	0.7	22
32	Dyck paths, Motzkin paths and traffic jams. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2004, 2004, P10007.	0.9	21
33	Spatiotemporally Complete Condensation in a Non-Poissonian Exclusion Process. <i>Physical Review Letters</i> , 2014, 112, 050603.	2.9	20
34	Free-energy landscapes, dynamics, and the edge of chaos in mean-field models of spin glasses. <i>Physical Review B</i> , 2006, 74, .	1.1	19
35	Evidence for a Role of Executive Functions in Learning Biology. <i>Infant and Child Development</i> , 2014, 23, 67-83.	0.9	19
36	Continued fractions and the partially asymmetric exclusion process. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 325002.	0.7	17

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37	Stochastic Dynamics of Lexicon Learning in an Uncertain and Nonuniform World. <i>Physical Review Letters</i> , 2013, 110, 258701.	2.9	17
38	The Speech Community in Evolutionary Language Dynamics. <i>Language Learning</i> , 2009, 59, 47-63.	1.4	15
39	Noise-Induced Dynamical Transition in Systems with Symmetric Absorbing States. <i>Physical Review Letters</i> , 2011, 106, 165702.	2.9	15
40	How individuals change language. <i>PLoS ONE</i> , 2021, 16, e0252582.	1.1	15
41	Word learning under infinite uncertainty. <i>Cognition</i> , 2016, 151, 18-27.	1.1	13
42	Generic modes of consensus formation in stochastic language dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P02059.	0.9	12
43	Parasites on parasites: Coupled fluctuations in stacked contact processes. <i>Europhysics Letters</i> , 2013, 101, 50001.	0.7	12
44	A comparison of dynamical fluctuations of biased diffusion and run-and-tumble dynamics in one dimension. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 425002.	0.7	12
45	The grand-canonical asymmetric exclusion process and the one-transit walk. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2004, 2004, P06001.	0.9	11
46	Resource spectrum engineering by specialist species can shift the specialist-generalist balance. <i>Theoretical Ecology</i> , 2020, 13, 149-163.	0.4	11
47	Challenges in detecting evolutionary forces in language change using diachronic corpora. <i>Glossa</i> , 2020, 5, 45.	0.2	11
48	Zero-range processes with saturated condensation: the steady state and dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P02013.	0.9	9
49	Colloquium: Hierarchy of scales in language dynamics. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	9
50	Slow crossover to Kardar-Parisi-Zhang scaling. <i>Physical Review E</i> , 2001, 64, 051101.	0.8	8
51	The propagation of a cultural or biological trait by neutral genetic drift in a subdivided population. <i>Theoretical Population Biology</i> , 2007, 71, 454-472.	0.5	8
52	Rényi entropy of the totally asymmetric exclusion process. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 475005.	0.7	8
53	Conceptual Similarity and Communicative Need Shape Colexification: An Experimental Study. <i>Cognitive Science</i> , 2021, 45, e13035.	0.8	7
54	An introduction to phase transitions in stochastic dynamical systems. <i>Journal of Physics: Conference Series</i> , 2006, 40, 1-12.	0.3	6

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55	Fast fixation with a generic network structure. <i>Physical Review E</i> , 2012, 86, 031142.	0.8	6
56	Minimal stochastic field equations for one-dimensional flocking. <i>Physical Review E</i> , 2018, 98, .	0.8	6
57	Can a Scienceâ€™Humanities Collaboration Be Successful?. <i>Adaptive Behavior</i> , 2010, 18, 12-20.	1.1	5
58	Coupled differentiation and division of embryonic stem cells inferred from clonal snapshots. <i>Physical Biology</i> , 2020, 17, 065009.	0.8	5
59	Combinatorial mappings of exclusion processes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 123001.	0.7	5
60	Publisherâ€™s Note: Exact Asymptotics for One-Dimensional Diffusion with Mobile Traps [<i>Phys. Rev. Lett.</i> 89, 150601 (2002)]. <i>Physical Review Letters</i> , 2002, 89, .	2.9	4
61	Macroscopically observable probability currents in finite populations. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2013, 2013, P06008.	0.9	4
62	Simulating the Real Origins of Communication. <i>PLoS ONE</i> , 2014, 9, e113636.	1.1	4
63	Maintenance of order in a moving strong condensate. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P11029.	0.9	4
64	Solvable model of a many-filament Brownian ratchet. <i>Physical Review E</i> , 2019, 100, 042122.	0.8	4
65	Inter-particle ratchet effect determines global current of heterogeneous particles diffusing in confinement. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 013209.	0.9	3
66	RANDOM COPYING IN SPACE. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2012, 15, 1150012.	0.9	2
67	Width Scaling of an Interface Constrained by a Membrane. <i>Physical Review Letters</i> , 2018, 121, 058102.	2.9	2
68	Symmetry and Universality in Language Change. <i>Lecture Notes in Morphogenesis</i> , 2016, , 43-57.	0.2	2
69	Discontinuous transition in a boundary driven contact process. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P09008.	0.9	1
70	THE ORIGINS OF COMBINATORIAL COMMUNICATION. , 2014, , .		1
71	A search for general principles of nonequilibrium physics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 421006.	0.7	0
72	How Laggards Help Decision-Making. <i>Physics Magazine</i> , 2020, 13, .	0.1	0

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73	SAMPLERS, MAXIMISERS AND THE CULTURAL EVOLUTIONARY DYNAMICS OF LANGUAGE. , 2010, , .		0
74	The Interplay of Replication, Variation and Selection in the Dynamics of Evolving Populations. The Frontiers Collection, 2011, , 81-118.	0.1	0