

Satya N Majumdar

List of Publications by Year in descending order

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53
papers

4,101
citations

186265
28
h-index

189892
50
g-index

53
all docs

53
docs citations

53
times ranked

927
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion with Stochastic Resetting. <i>Physical Review Letters</i> , 2011, 106, 160601.	7.8	470
2	Persistence and first-passage properties in nonequilibrium systems. <i>Advances in Physics</i> , 2013, 62, 225-361.	14.4	392
3	Stochastic resetting and applications. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 193001.	2.1	313
4	Diffusion with optimal resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 435001.	2.1	266
5	First Order Transition for the Optimal Search Time of Lévy Flights with Resetting. <i>Physical Review Letters</i> , 2014, 113, 220602.	7.8	235
6	Nontrivial Exponent for Simple Diffusion. <i>Physical Review Letters</i> , 1996, 77, 2867-2870.	7.8	184
7	Diffusion with resetting in arbitrary spatial dimension. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 285001.	2.1	157
8	Steady state, relaxation and first-passage properties of a run-and-tumble particle in one-dimension. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 043215.	2.3	157
9	Run and tumble particle under resetting: a renewal approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 475003.	2.1	152
10	Dynamical transition in the temporal relaxation of stochastic processes under resetting. <i>Physical Review E</i> , 2015, 91, 052131.	2.1	137
11	Run-and-tumble particle in one-dimensional confining potentials: Steady-state, relaxation, and first-passage properties. <i>Physical Review E</i> , 2019, 99, 032132.	2.1	121
12	Optimal diffusive search: nonequilibrium resetting versus equilibrium dynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 185001.	2.1	115
13	Extreme value statistics of correlated random variables: A pedagogical review. <i>Physics Reports</i> , 2020, 840, 1-32.	25.6	113
14	Survival Probability of a Gaussian Non-Markovian Process: Application to the Dynamics of the Ising Model. <i>Physical Review Letters</i> , 1996, 77, 1420-1423.	7.8	108
15	Optimal mean first-passage time for a Brownian searcher subjected to resetting: Experimental and theoretical results. <i>Physical Review Research</i> , 2020, 2, .	3.6	106
16	Universal Record Statistics of Random Walks and Lévy Flights. <i>Physical Review Letters</i> , 2008, 101, 050601.	7.8	98
17	Universal first-passage properties of discrete-time random walks and Lévy flights on a line: Statistics of the global maximum and records. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 4299-4316.	2.6	94
18	Random walk with random resetting to the maximum position. <i>Physical Review E</i> , 2015, 92, 052126.	2.1	73

#	ARTICLE	IF	CITATIONS
19	Spatial Persistence of Fluctuating Interfaces. <i>Physical Review Letters</i> , 2001, 86, 3700-3703.	7.8	71
20	Universal Survival Probability for a d -Dimensional Run-and-Tumble Particle. <i>Physical Review Letters</i> , 2020, 124, 090603.	7.8	60
21	Precise asymptotics for a random walker's maximum. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2005, 2005, P06013-P06013.	2.3	50
22	Record statistics and persistence for a random walk with a drift. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 355002.	2.1	49
23	Spectral content of fractional Brownian motion with stochastic reset. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 435001.	2.1	46
24	Noncrossing run-and-tumble particles on a line. <i>Physical Review E</i> , 2019, 100, 012113.	2.1	44
25	Correlations and Coarsening in the q -State Potts Model. <i>Physical Review Letters</i> , 1995, 74, 4321-4324.	7.8	43
26	Record statistics of a strongly correlated time series: random walks and Lévy flights. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 333001.	2.1	35
27	Record statistics for multiple random walks. <i>Physical Review E</i> , 2012, 86, 011119.	2.1	33
28	The convex hull of the run-and-tumble particle in a plane. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 053401.	2.3	28
29	Current fluctuations in noninteracting run-and-tumble particles in one dimension. <i>Physical Review E</i> , 2020, 101, 052101.	2.1	27
30	Universal properties of a run-and-tumble particle in arbitrary dimension. <i>Physical Review E</i> , 2020, 102, 042133.	2.1	26
31	Velocity and diffusion constant of an active particle in a one-dimensional force field. <i>Europhysics Letters</i> , 2020, 130, 40002.	2.0	24
32	Mean perimeter and area of the convex hull of a planar Brownian motion in the presence of resetting. <i>Physical Review E</i> , 2021, 103, 022135.	2.1	24
33	Record statistics for random walks and Lévy flights with resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 034002.	2.1	22
34	Record-Breaking Statistics for Random Walks in the Presence of Measurement Error and Noise. <i>Physical Review Letters</i> , 2013, 110, 180602.	7.8	20
35	Condensation transition in the late-time position of a run-and-tumble particle. <i>Physical Review E</i> , 2021, 103, 062134.	2.1	20
36	Statistics of the Number of Zero Crossings: From Random Polynomials to the Diffusion Equation. <i>Physical Review Letters</i> , 2007, 99, 060603.	7.8	19

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37	Large deviations of convex hulls of self-avoiding random walks. <i>Physical Review E</i> , 2018, 97, 062159.	2.1	15
38	Exactly Solvable Record Model for Rainfall. <i>Physical Review Letters</i> , 2019, 122, 158702.	7.8	15
39	An exactly solvable predator prey model with resetting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 274005.	2.1	15
40	Position distribution in a generalized run-and-tumble process. <i>Physical Review E</i> , 2021, 103, 012130.	2.1	14
41	Record statistics for random walk bridges. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2015, 2015, P07026.	2.3	13
42	Exact Statistics of Record Increments of Random Walks and Lévy Flights. <i>Physical Review Letters</i> , 2016, 117, 010601.	7.8	13
43	Survival probability of random walks and Lévy flights on a semi-infinite line. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 465002.	2.1	13
44	Convex hulls of random walks in higher dimensions: A large-deviation study. <i>Physical Review E</i> , 2017, 96, 062101.	2.1	12
45	On the gap and time interval between the first two maxima of long random walks. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P09013.	2.3	11
46	Number of distinct sites visited by a resetting random walker. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 244001.	2.1	11
47	Generating constrained run-and-tumble trajectories. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 385004.	2.1	10
48	Stationary nonequilibrium bound state of a pair of run and tumble particles. <i>Physical Review E</i> , 2021, 104, 044103.	2.1	10
49	Statistics of the number of records for random walks and Lévy flights on a 1D lattice. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 415003.	2.1	8
50	Ground-state energy of noninteracting fermions with a random energy spectrum. <i>Europhysics Letters</i> , 2018, 124, 40005.	2.0	6
51	Monte Carlo dynamics at zero temperature. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	2
52	Universal record statistics for random walks and Lévy flights with a nonzero staying probability. <i>Journal of Physics A: Mathematical and Theoretical</i> , 0, , .	2.1	1
53	Statistical properties of avalanches via the $\langle \text{record} \rangle$ process. <i>Physical Review E</i> , 2021, 104, 064129.	2.1	0