Shlomi Reuveni

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8278815/publications.pdf

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50	2,180	304368	223531
papers	citations	22 h-index	46 g-index

53	53	53	892
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First Passage under Restart. Physical Review Letters, 2017, 118, 030603.	2.9	231
2	Role of substrate unbinding in Michaelisâ€“Menten enzymatic reactions. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4391-4396.	3.3	205
3	Optimal Stochastic Restart Renders Fluctuations in First Passage Times Universal. Physical Review Letters, 2016, 116, 170601.	2.9	196
4	Genome-Scale Analysis of Translation Elongation with a Ribosome Flow Model. PLoS Computational Biology, 2011, 7, e1002127.	1.5	175
5	Experimental Realization of Diffusion with Stochastic Resetting. Journal of Physical Chemistry Letters, 2020, 11, 7350-7355.	2.1	135
6	Michaelis-Menten reaction scheme as a unified approach towards the optimal restart problem. Physical Review E, 2015, 92, 060101.	0.8	116
7	Search with home returns provides advantage under high uncertainty. Physical Review Research, 2020, 2, .	1.3	75
8	Proteins: Coexistence of Stability and Flexibility. Physical Review Letters, 2008, 100, 208101.	2.9	71
9	PÃ©clet number governs transition to acceleratory restart in drift-diffusion. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 255002.	0.7	71
10	Diffusion with resetting in a logarithmic potential. Journal of Chemical Physics, 2020, 152, 234110.	1.2	71
11	Single-molecule theory of enzymatic inhibition. Nature Communications, 2018, 9, 779.	5.8	64
12	Ribosomes are optimized for autocatalytic production. Nature, 2017, 547, 293-297.	13.7	60
13	Anomalies in the vibrational dynamics of proteins are a consequence of fractal-like structure. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13696-13700.	3.3	57
14	Time-dependent density of diffusion with stochastic resetting is invariant to return speed. Physical Review E, 2019, 100, 040101.	0.8	56
15	First Passage under Restart with Branching. Physical Review Letters, 2019, 122, 020602.	2.9	55
16	Invariants of motion with stochastic resetting and space-time coupled returns. New Journal of Physics, 2019, 21, 113024.	1.2	52
17	The inspection paradox in stochastic resetting. Journal of Physics A: Mathematical and Theoretical, 2022, 55, 021001.	0.7	47
18	Local time of diffusion with stochastic resetting. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 264002.	0.7	41

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19	Thermodynamic uncertainty relation for systems with unidirectional transitions. Physical Review Research, 2021, 3, .	1.3	30
20	Multisite phosphorylation drives phenotypic variation in (p)ppGpp synthetase-dependent antibiotic tolerance. Nature Communications, 2019, 10, 5133.	5.8	28
21	Asymmetric Inclusion Process as a Showcase of Complexity. Physical Review Letters, 2012, 109, 020603.	2.9	24
22	Diffusion with local resetting and exclusion. Physical Review Research, 2021, 3, .	1.3	24
23	Resetting transition is governed by an interplay between thermal and potential energy. Journal of Chemical Physics, 2021, 154, 171103.	1.2	24
24	Light-Controlled Selective Collection-and-Release of Biomolecules by an On-Chip Nanostructured Device. Nano Letters, 2019, 19, 5868-5878.	4.5	23
25	Coexistence of Flexibility and Stability of Proteins: An Equation of State. PLoS ONE, 2009, 4, e7296.	1.1	21
26	Ribosome Composition Maximizes Cellular Growth Rates in E.Âcoli. Physical Review Letters, 2020, 125, 028103.	2.9	20
27	Mean-performance of sharp restart I: statistical roadmap. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 405004.	0.7	20
28	Vibrational shortcut to the mean-first-passage-time problem. Physical Review E, 2010, 81, 040103.	0.8	19
29	Dynamic Structure Factor of Vibrating Fractals. Physical Review Letters, 2012, 108, 068101.	2.9	17
30	Thermodynamic uncertainty relation for first-passage times on Markov chains. Physical Review Research, 2021, 3, .	1.3	17
31	Dynamic structure factor of vibrating fractals: Proteins as a case study. Physical Review E, 2012, 85, 011906.	0.8	15
32	Asymmetric inclusion process. Physical Review E, 2011, 84, 041101.	0.8	14
33	Mitigating long queues and waiting times with service resetting. , 2022, 1, .		12
34	Occupation probabilities and fluctuations in the asymmetric simple inclusion process. Physical Review E, 2014, 89, 042109.	0.8	11
35	Unified Approach to Gated Reactions on Networks. Physical Review Letters, 2021, 127, 018301.	2.9	10
36	General mapping between random walks and thermal vibrations in elastic networks: Fractal networks as a case study. Physical Review E, 2010, 82, 041132.	0.8	9

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37	Limit laws for the asymmetric inclusion process. Physical Review E, 2012, 86, 061133.	0.8	8
38	CATALAN'S TRAPEZOIDS. Probability in the Engineering and Informational Sciences, 2014, 28, 353-361.	0.6	8
39	Tail-behavior roadmap for sharp restart. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 125001.	0.7	8
40	Mean-performance of sharp restart II: Inequality roadmap. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	8
41	Constant gradient FEXSY: A time-efficient method for measuring exchange. Journal of Magnetic Resonance, 2020, 311, 106667.	1.2	7
42	Growth laws and invariants from ribosome biogenesis in lower Eukarya. Physical Review Research, 2021, 3, .	1.3	7
43	Gumbel central limit theorem for max-min and min-max. Physical Review E, 2019, 100, 020104.	0.8	6
44	Poisson-process limit laws yield Gumbel max-min and min-max. Physical Review E, 2019, 100, 022129.	0.8	4
45	Occupancy correlations in the asymmetric simple inclusion process. Physical Review E, 2019, 100, 042109.	0.8	3
46	Gated reactions in discrete time and space. Journal of Chemical Physics, 2021, 155, 234112.	1.2	3
47	The Role of Substrate Unbinding in Michaelis-Menten Enzymatic Reactions. Biophysical Journal, 2014, 106, 677a.	0.2	1
48	A Ribosome Flow Model for Analyzing Translation Elongation. Lecture Notes in Computer Science, 2011, , 358-360.	1.0	1
49	Anomalies in the Vibrational Dynamics of Proteins are a Consequence of Fractal-Like Structure. Biophysical Journal, 2011, 100, 223a-224a.	0.2	0
50	Proteins: Coexistence of Stability and Flexibility. , 2008, , .		0