## **Baruch Barzel**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Universal resilience patterns in complex networks. Nature, 2016, 530, 307-312.	27.8	754
2	Universality in network dynamics. Nature Physics, 2013, 9, 673-681.	16.7	253
3	Network link prediction by global silencing of indirect correlations. Nature Biotechnology, 2013, 31, 720-725.	17.5	224
4	Spectrum of controlling and observing complexÂnetworks. Nature Physics, 2015, 11, 779-786.	16.7	212
5	Spatiotemporal signal propagation in complex networks. Nature Physics, 2019, 15, 403-412.	16.7	123
6	Dynamic patterns of information flow in complex networks. Nature Communications, 2017, 8, 2181.	12.8	101
7	Constructing minimal models for complex system dynamics. Nature Communications, 2015, 6, 7186.	12.8	69
8	Quantifying the connectivity of a network: The network correlation function method. Physical Review E, 2009, 80, 046104.	2.1	45
9	Alternating quarantine for sustainable epidemic mitigation. Nature Communications, 2021, 12, 220.	12.8	37
10	Growing scale-free simplices. Communications Physics, 2021, 4, .	5.3	33
11	Efficient Simulations of Interstellar Gas-Grain Chemistry Using Moment Equations. Astrophysical Journal, 2007, 658, L37-L40.	4.5	29
12	Binomial Moment Equations for Stochastic Reaction Systems. Physical Review Letters, 2011, 106, 150602.	7.8	28
13	Reviving a failed network through microscopic interventions. Nature Physics, 2022, 18, 338-349.	16.7	25
14	Efficient stochastic simulations of complex reaction networks on surfaces. Journal of Chemical Physics, 2007, 127, 144703.	3.0	19
15	Calculation of switching times in the genetic toggle switch and other bistable systems. Physical Review E, 2008, 78, 041919.	2.1	19
16	Stochastic analysis of complex reaction networks using binomial moment equations. Physical Review E, 2012, 86, 031126.	2.1	16
17	Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points. IEEE Transactions on Signal Processing, 2019, 67, 4582-4596.	5.3	16
18	Contagion in simplicial complexes. Chaos, Solitons and Fractals, 2021, 152, 111307.	5.1	16

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19	Synchronization of chaotic systems: A microscopic description. Physical Review E, 2018, 98, .	2.1	14
20	Epidemic spreading under infection-reduced-recovery. Chaos, Solitons and Fractals, 2020, 140, 110130.	5.1	14
21	Universal patterns in passenger flight departure delays. Scientific Reports, 2020, 10, 6890.	3.3	13
22	The Metastability of the Double-Tripod Gait in Locust Locomotion. IScience, 2019, 12, 53-65.	4.1	11
23	Topological synchronization of chaotic systems. Scientific Reports, 2022, 12, 2508.	3.3	11
24	IRS1 phosphorylation underlies the non-stochastic probability of cancer cells to persist during EGFR inhibition therapy. Nature Cancer, 2021, 2, 1055-1070.	13.2	9
25	Stochastic analysis of dimerization systems. Physical Review E, 2009, 80, 031117.	2.1	7
26	Digitizable therapeutics for decentralized mitigation of global pandemics. Scientific Reports, 2019, 9, 14345.	3.3	7
27	Evaluation of the multiplane method for efficient simulations of reaction networks. Physical Review E, 2007, 76, 026703.	2.1	5
28	Analysis of the Multiplane Method for Stochastic Simulations of Reaction Networks with Fluctuations. Multiscale Modeling and Simulation, 2007, 6, 963-982.	1.6	5
29	Reply to: Asymptotic scaling describing signal propagation in complex networks. Nature Physics, 2020, 16, 1084-1085.	16.7	4
30	Dimensional reduction of the master equation for stochastic chemical networks: The reduced-multiplane method. Physical Review E, 2010, 82, 021117.	2.1	3
31	Unusual changeover in the transition nature of local-interaction Potts models. Physical Review E, 2019, 100, 052119.	2.1	3
32	Response to Letter of Correspondence – Bastiaens et al Nature Biotechnology, 2015, 33, 339-342.	17.5	2
33	Distribution equality as an optimal epidemic mitigation strategy. Scientific Reports, 2022, 12,	3.3	2
34	Barzel and Biham Reply. Physical Review Letters, 2014, 112, .	7.8	0