

# Baruch Barzel

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

2,144  
citations

516710

16  
h-index

377865

34  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2333  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reviving a failed network through microscopic interventions. <i>Nature Physics</i> , 2022, 18, 338-349.	16.7	25
2	Topological synchronization of chaotic systems. <i>Scientific Reports</i> , 2022, 12, 2508.	3.3	11
3	Distribution equality as an optimal epidemic mitigation strategy. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
4	Alternating quarantine for sustainable epidemic mitigation. <i>Nature Communications</i> , 2021, 12, 220.	12.8	37
5	Growing scale-free simplices. <i>Communications Physics</i> , 2021, 4, .	5.3	33
6	Contagion in simplicial complexes. <i>Chaos, Solitons and Fractals</i> , 2021, 152, 111307.	5.1	16
7	IRS1 phosphorylation underlies the non-stochastic probability of cancer cells to persist during EGFR inhibition therapy. <i>Nature Cancer</i> , 2021, 2, 1055-1070.	13.2	9
8	Epidemic spreading under infection-reduced-recovery. <i>Chaos, Solitons and Fractals</i> , 2020, 140, 110130.	5.1	14
9	Reply to: Asymptotic scaling describing signal propagation in complex networks. <i>Nature Physics</i> , 2020, 16, 1084-1085.	16.7	4
10	Universal patterns in passenger flight departure delays. <i>Scientific Reports</i> , 2020, 10, 6890.	3.3	13
11	Joint Network Topology and Dynamics Recovery From Perturbed Stationary Points. <i>IEEE Transactions on Signal Processing</i> , 2019, 67, 4582-4596.	5.3	16
12	Digitizable therapeutics for decentralized mitigation of global pandemics. <i>Scientific Reports</i> , 2019, 9, 14345.	3.3	7
13	Spatiotemporal signal propagation in complex networks. <i>Nature Physics</i> , 2019, 15, 403-412.	16.7	123
14	The Metastability of the Double-Tripod Gait in Locust Locomotion. <i>iScience</i> , 2019, 12, 53-65.	4.1	11
15	Unusual changeover in the transition nature of local-interaction Potts models. <i>Physical Review E</i> , 2019, 100, 052119.	2.1	3
16	Synchronization of chaotic systems: A microscopic description. <i>Physical Review E</i> , 2018, 98, .	2.1	14
17	Dynamic patterns of information flow in complex networks. <i>Nature Communications</i> , 2017, 8, 2181.	12.8	101
18	Universal resilience patterns in complex networks. <i>Nature</i> , 2016, 530, 307-312.	27.8	754

#	ARTICLE	IF	CITATIONS
19	Constructing minimal models for complex system dynamics. Nature Communications, 2015, 6, 7186.	12.8	69
20	Response to Letter of Correspondence “ Bastiaens et al.. Nature Biotechnology, 2015, 33, 339-342.	17.5	2
21	Spectrum of controlling and observing complex networks. Nature Physics, 2015, 11, 779-786.	16.7	212
22	Barzel and Biham Reply. Physical Review Letters, 2014, 112, .	7.8	0
23	Network link prediction by global silencing of indirect correlations. Nature Biotechnology, 2013, 31, 720-725.	17.5	224
24	Universality in network dynamics. Nature Physics, 2013, 9, 673-681.	16.7	253
25	Stochastic analysis of complex reaction networks using binomial moment equations. Physical Review E, 2012, 86, 031126.	2.1	16
26	Binomial Moment Equations for Stochastic Reaction Systems. Physical Review Letters, 2011, 106, 150602.	7.8	28
27	Dimensional reduction of the master equation for stochastic chemical networks: The reduced-multiplane method. Physical Review E, 2010, 82, 021117.	2.1	3
28	Stochastic analysis of dimerization systems. Physical Review E, 2009, 80, 031117.	2.1	7
29	Quantifying the connectivity of a network: The network correlation function method. Physical Review E, 2009, 80, 046104.	2.1	45
30	Calculation of switching times in the genetic toggle switch and other bistable systems. Physical Review E, 2008, 78, 041919.	2.1	19
31	Efficient stochastic simulations of complex reaction networks on surfaces. Journal of Chemical Physics, 2007, 127, 144703.	3.0	19
32	Evaluation of the multiplane method for efficient simulations of reaction networks. Physical Review E, 2007, 76, 026703.	2.1	5
33	Efficient Simulations of Interstellar Gas-Grain Chemistry Using Moment Equations. Astrophysical Journal, 2007, 658, L37-L40.	4.5	29
34	Analysis of the Multiplane Method for Stochastic Simulations of Reaction Networks with Fluctuations. Multiscale Modeling and Simulation, 2007, 6, 963-982.	1.6	5