

# Daniel M Busiello

## List of Publications by Year in descending order

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23  
papers

454  
citations

623734

14  
h-index

713466

21  
g-index

27  
all docs

27  
docs citations

27  
times ranked

345  
citing authors

#	ARTICLE	IF	CITATIONS
1	Turing patterns in multiplex networks. <i>Physical Review E</i> , 2014, 90, 042814.	2.1	82
2	Thermodynamics and kinetics of protonated merocyanine photoacids in water. <i>Chemical Science</i> , 2020, 11, 8457-8468.	7.4	53
3	Explorability and the origin of network sparsity in living systems. <i>Scientific Reports</i> , 2017, 7, 12323.	3.3	34
4	Hyperaccurate currents in stochastic thermodynamics. <i>Physical Review E</i> , 2019, 100, 060102.	2.1	26
5	Light-Switchable Buffers. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21737-21740.	13.8	23
6	Entropy production in systems with unidirectional transitions. <i>Physical Review Research</i> , 2020, 2, .	3.6	23
7	Entropy production for coarse-grained dynamics. <i>New Journal of Physics</i> , 2019, 21, 073004.	2.9	22
8	Inducing and optimizing Markovian Mpemba effect with stochastic reset. <i>New Journal of Physics</i> , 2021, 23, 103012.	2.9	21
9	Turing instabilities on Cartesian product networks. <i>Scientific Reports</i> , 2015, 5, 12927.	3.3	20
10	Similarities and differences between non-equilibrium steady states and time-periodic driving in diffusive systems. <i>New Journal of Physics</i> , 2018, 20, 093015.	2.9	20
11	Dissipation-driven selection of states in non-equilibrium chemical networks. <i>Communications Chemistry</i> , 2021, 4, .	4.5	19
12	Tighter thermodynamic bound on the speed limit in systems with unidirectional transitions. <i>Physical Review E</i> , 2020, 102, 062121.	2.1	17
13	Equilibrium and non-equilibrium furanose selection in the ribose isomerisation network. <i>Nature Communications</i> , 2021, 12, 2749.	12.8	17
14	Mutual Information Disentangles Interactions from Changing Environments. <i>Physical Review Letters</i> , 2021, 127, 228301.	7.8	17
15	Entropy production in master equations and Fokker-Planck equations: facing the coarse-graining and recovering the information loss. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 104013.	2.3	15
16	Coarse-grained entropy production with multiple reservoirs: Unraveling the role of time scales and detailed balance in biology-inspired systems. <i>Physical Review Research</i> , 2020, 2, .	3.6	14
17	Homogeneous-per-layer patterns in multiplex networks. <i>Europhysics Letters</i> , 2018, 121, 48006.	2.0	8
18	Pattern formation for reactive species undergoing anisotropic diffusion. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	7

#	ARTICLE	IF	CITATIONS
19	Entropy production in systems with random transition rates close to equilibrium. <i>Physical Review E</i> , 2017, 96, 062110.	2.1	7
20	Light-switchable Buffers. <i>Angewandte Chemie</i> , 2021, 133, 21905-21908.	2.0	3
21	Emergence of synchronised and amplified oscillations in neuromorphic networks with long-range interactions. <i>Neurocomputing</i> , 2021, 461, 716-726.	5.9	2
22	Dissipation-Driven Selection under Finite Diffusion: Hints from Equilibrium and Separation of Time Scales. <i>Entropy</i> , 2021, 23, 1068.	2.2	1
23	How Complex Molecules Could Possibly be Stable at the Dawn of Life: Out of Equilibrium Dissipation Shapes Selection. <i>Biophysical Journal</i> , 2020, 118, 611a.	0.5	0