

Matthew Scott

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

2,066
citations

1307594

7
h-index

1281871

11
g-index

12
all docs

12
docs citations

12
times ranked

2239
citing authors

#	ARTICLE	IF	CITATIONS
1	Growthâ€dependent heterogeneity in the DNA damage response in <i>Escherichia coli</i> . <i>Molecular Systems Biology</i> , 2022, 18, .	7.2	7
2	Metabolic models predict evolutionary dynamics. <i>Nature Ecology and Evolution</i> , 2021, 5, 560-561.	7.8	0
3	Component Characterization in a Growth-Dependent Physiological Context: Optimal Experimental Design. <i>Processes</i> , 2019, 7, 52.	2.8	7
4	The role of Stern layer in the interplay of dielectric saturation and ion steric effects for the capacitance of graphene in aqueous electrolytes. <i>Journal of Chemical Physics</i> , 2017, 146, 094101.	3.0	17
5	Obtaining Arbitrary Prescribed Mean Field Dynamics for Recurrently Coupled Networks of Type-I Spiking Neurons with Analytically Determined Weights. <i>Frontiers in Computational Neuroscience</i> , 2016, 10, 15.	2.1	1
6	Growthâ€dependent bacterial susceptibility to ribosomeâ€targeting antibiotics. <i>Molecular Systems Biology</i> , 2015, 11, 796.	7.2	123
7	Emergence of robust growth laws from optimal regulation of ribosome synthesis. <i>Molecular Systems Biology</i> , 2014, 10, 747.	7.2	374
8	Bacterial growth laws and their applications. <i>Current Opinion in Biotechnology</i> , 2011, 22, 559-565.	6.6	237
9	Approximating intrinsic noise in continuous multispecies models. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 718-737.	2.1	21
10	Interdependence of Cell Growth and Gene Expression: Origins and Consequences. <i>Science</i> , 2010, 330, 1099-1102.	12.6	1,183
11	Long delay times in reaction rates increase intrinsic fluctuations. <i>Physical Review E</i> , 2009, 80, 031129.	2.1	5
12	Estimations of intrinsic and extrinsic noise in models of nonlinear genetic networks. <i>Chaos</i> , 2006, 16, 026107.	2.5	91