

# Pavol Bokes

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6422103/publications.pdf>

Version: 2024-02-01

27  
papers

557  
citations

1040056

9  
h-index

752698

20  
g-index

41  
all docs

41  
docs citations

41  
times ranked

344  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consequences of mRNA Transport on Stochastic Variability in Protein Levels. <i>Biophysical Journal</i> , 2012, 103, 1087-1096.	0.5	109
2	Exact and approximate distributions of protein and mRNA levels in the low-copy regime of gene expression. <i>Journal of Mathematical Biology</i> , 2012, 64, 829-854.	1.9	71
3	Delayed Protein Synthesis Reduces the Correlation between mRNA and Protein Fluctuations. <i>Biophysical Journal</i> , 2012, 103, 377-385.	0.5	68
4	Multiscale stochastic modelling of gene expression. <i>Journal of Mathematical Biology</i> , 2012, 65, 493-520.	1.9	52
5	Transcriptional Bursting Diversifies the Behaviour of a Toggle Switch: Hybrid Simulation of Stochastic Gene Expression. <i>Bulletin of Mathematical Biology</i> , 2013, 75, 351-371.	1.9	40
6	Gene expression noise is affected differentially by feedback in burst frequency and burst size. <i>Journal of Mathematical Biology</i> , 2017, 74, 1483-1509.	1.9	37
7	Protein Copy Number Distributions for a Self-Regulating Gene in the Presence of Decoy Binding Sites. <i>PLoS ONE</i> , 2015, 10, e0120555.	2.5	28
8	High Cooperativity in Negative Feedback can Amplify Noisy Gene Expression. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 1871-1899.	1.9	23
9	A bistable genetic switch which does not require high co-operativity at the promoter: a two-timescale model for the PU.1-GATA-1 interaction. <i>Mathematical Medicine and Biology</i> , 2009, 26, 117-132.	1.2	19
10	Mixture distributions in a stochastic gene expression model with delayed feedback: a WKB approximation approach. <i>Journal of Mathematical Biology</i> , 2020, 81, 343-367.	1.9	12
11	A modified fluctuation test for elucidating drug resistance in microbial and cancer cells. <i>European Journal of Control</i> , 2021, 62, 130-135.	2.6	12
12	Controlling Noisy Expression Through Auto Regulation of Burst Frequency and Protein Stability. <i>Lecture Notes in Computer Science</i> , 2019, , 80-97.	1.3	10
13	MicroRNA Based Feedforward Control of Intrinsic Gene Expression Noise. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 272-282.	3.0	9
14	Heavy-tailed distributions in a stochastic gene autoregulation model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 113403.	2.3	9
15	A uniqueness result for a semilinear parabolic system. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 331, 567-584.	1.0	5
16	Buffering Gene Expression Noise by MicroRNA Based Feedforward Regulation. <i>Lecture Notes in Computer Science</i> , 2018, , 129-145.	1.3	5
17	Exact and WKB-approximate distributions in a gene expression model with feedback in burst frequency, burst size, and protein stability. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2022, 27, 2129.	0.9	4
18	Cell Volume Distributions in Exponentially Growing Populations. <i>Lecture Notes in Computer Science</i> , 2019, , 140-154.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Stationary Distributions and Metastable Behaviour for Self-regulating Proteins with General Lifetime Distributions. Lecture Notes in Computer Science, 2020, , 27-43.	1.3	4
20	Limit-cycle oscillatory coexpression of cross-inhibitory transcription factors: a model mechanism for lineage promiscuity. Mathematical Medicine and Biology, 2019, 36, 113-137.	1.2	3
21	Maintaining gene expression levels by positive feedback in burst size in the presence of infinitesimal delay. Discrete and Continuous Dynamical Systems - Series B, 2017, 22, 1-14.	0.9	3
22	Noise induced bimodality in genetic circuits with monostable positive feedback. , 2019, , .		2
23	Protein Noise and Distribution in a Two-Stage Gene-Expression Model Extended by an mRNA Inactivation Loop. Lecture Notes in Computer Science, 2021, , 215-229.	1.3	2
24	Postponing production exponentially enhances the molecular memory of a stochastic switch. European Journal of Applied Mathematics, 2022, 33, 182-199.	2.9	2
25	Accelerating Reactions at the DNA Can Slow Down Transient Gene Expression. Lecture Notes in Computer Science, 2020, , 44-60.	1.3	2
26	Stationary and Time-Dependent Molecular Distributions in Slow-Fast Feedback Circuits. SIAM Journal on Applied Dynamical Systems, 2022, 21, 903-931.	1.6	2
27	Non-monotonicity of Fano factor in a stochastic model for protein expression with sequesterisation at decoy binding sites. Biomath, 2017, 6, 1710217.	0.7	1