

# 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  | 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         |
| 2  | Postponing production exponentially enhances the molecular memory of a stochastic switch. <i>European Journal of Applied Mathematics</i> , 2022, 33, 182-199.   | 2.9 | 2         |
| 3  | Stationary and Time-Dependent Molecular Distributions in Slow-Fast Feedback Circuits. <i>SIAM Journal on Applied Dynamical Systems</i> , 2022, 21, 903-931.   | 1.6 | 2         |
| 4  | 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         |
| 5  | Protein Noise and Distribution in a Two-Stage Gene-Expression Model Extended by an mRNA Inactivation Loop. <i>Lecture Notes in Computer Science</i> , 2021, , 215-229.  | 1.3 | 2         |
| 6  | 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        |
| 7  | Heavy-tailed distributions in a stochastic gene autoregulation model. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 113403.  | 2.3 | 9         |
| 8  | 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        |
| 9  | Stationary Distributions and Metastable Behaviour for Self-regulating Proteins with General Lifetime Distributions. <i>Lecture Notes in Computer Science</i> , 2020, , 27-43.   | 1.3 | 4         |
| 10 | Accelerating Reactions at the DNA Can Slow Down Transient Gene Expression. <i>Lecture Notes in Computer Science</i> , 2020, , 44-60.  | 1.3 | 2         |
| 11 | Noise induced bimodality in genetic circuits with monostable positive feedback. , 2019, , .   |     | 2         |
| 12 | Limit-cycle oscillatory coexpression of cross-inhibitory transcription factors: a model mechanism for lineage promiscuity. <i>Mathematical Medicine and Biology</i> , 2019, 36, 113-137.                              | 1.2 | 3         |
| 13 | 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        |
| 14 | Cell Volume Distributions in Exponentially Growing Populations. <i>Lecture Notes in Computer Science</i> , 2019, , 140-154.   | 1.3 | 4         |
| 15 | High Cooperativity in Negative Feedback can Amplify Noisy Gene Expression. <i>Bulletin of Mathematical Biology</i> , 2018, 80, 1871-1899.   | 1.9 | 23        |
| 16 | Buffering Gene Expression Noise by MicroRNA Based Feedforward Regulation. <i>Lecture Notes in Computer Science</i> , 2018, , 129-145.   | 1.3 | 5         |
| 17 | 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        |
| 18 | Maintaining gene expression levels by positive feedback in burst size in the presence of infinitesimal delay. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2017, 22, 1-14.                           | 0.9 | 3         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Non-monotonicity of Fano factor in a stochastic model for protein expression with sequestration at decoy binding sites. <i>Biomath</i> , 2017, 6, 1710217.   | 0.7 | 1         |
| 20 | 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        |
| 21 | 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        |
| 22 | Delayed Protein Synthesis Reduces the Correlation between mRNA and Protein Fluctuations. <i>Biophysical Journal</i> , 2012, 103, 377-385.  | 0.5 | 68        |
| 23 | Consequences of mRNA Transport on Stochastic Variability in Protein Levels. <i>Biophysical Journal</i> , 2012, 103, 1087-1096.   | 0.5 | 109       |
| 24 | Multiscale stochastic modelling of gene expression. <i>Journal of Mathematical Biology</i> , 2012, 65, 493-520.  | 1.9 | 52        |
| 25 | 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        |
| 26 | 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        |
| 27 | A uniqueness result for a semilinear parabolic system. <i>Journal of Mathematical Analysis and Applications</i> , 2007, 331, 567-584.  | 1.0 | 5         |