

Maciej Dobrzyński

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,108
citations

567281

15
h-index

642732

23
g-index

30
all docs

30
docs citations

30
times ranked

1505
citing authors

#	ARTICLE	IF	CITATIONS
1	Frequency modulation of ERK activation dynamics rewires cell fate. <i>Molecular Systems Biology</i> , 2015, 11, 838.	7.2	189
2	Bistability in the Rac1, PAK, and RhoA Signaling Network Drives Actin Cytoskeleton Dynamics and Cell Motility Switches. <i>Cell Systems</i> , 2016, 2, 38-48.	6.2	159
3	Elongation dynamics shape bursty transcription and translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2583-2588.	7.1	119
4	Spatial stochastic modelling of the phosphoenolpyruvate-dependent phosphotransferase (PTS) pathway in <i>Escherichia coli</i> . <i>Bioinformatics</i> , 2006, 22, 1895-1901.	4.1	93
5	Collective ERK/Akt activity waves orchestrate epithelial homeostasis by driving apoptosis-induced survival. <i>Developmental Cell</i> , 2021, 56, 1712-1726.e6.	7.0	91
6	Emergence of bimodal cell population responses from the interplay between analog single-cell signaling and protein expression noise. <i>BMC Systems Biology</i> , 2012, 6, 109.	3.0	89
7	Computational methods for diffusion-influenced biochemical reactions. <i>Bioinformatics</i> , 2007, 23, 1969-1977.	4.1	52
8	Temporal perturbation of ERK dynamics reveals network architecture of FGF2/MAPK signaling. <i>Molecular Systems Biology</i> , 2019, 15, e8947.	7.2	33
9	Polyubiquitin chain assembly and organization determine the dynamics of protein activation and degradation. <i>Frontiers in Physiology</i> , 2014, 5, 4.	2.8	28
10	Proteomics analysis of bladder cancer invasion: Targeting EIF3D for therapeutic intervention. <i>Oncotarget</i> , 2017, 8, 69435-69455.	1.8	27
11	Optogenetic actuator “ERK biosensor circuits identify MAPK network nodes that shape ERK dynamics. <i>Molecular Systems Biology</i> , 2022, 18, .	7.2	27
12	Nonlinear signalling networks and cell-to-cell variability transform external signals into broadly distributed or bimodal responses. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140383.	3.4	24
13	Strategies for structuring interdisciplinary education in Systems Biology: an European perspective. <i>Npj Systems Biology and Applications</i> , 2016, 2, 16011.	3.0	21
14	Origins of Stochastic Intracellular Processes and Consequences for Cell-to-Cell Variability and Cellular Survival Strategies. <i>Methods in Enzymology</i> , 2011, 500, 597-625.	1.0	18
15	Mammalian protein expression noise: scaling principles and the implications for knockdown experiments. <i>Molecular BioSystems</i> , 2012, 8, 3068.	2.9	15
16	CODEX, a neural network approach to explore signaling dynamics landscapes. <i>Molecular Systems Biology</i> , 2021, 17, e10026.	7.2	15
17	Mining single-cell time-series datasets with Time Course Inspector. <i>Bioinformatics</i> , 2020, 36, 1968-1969.	4.1	14
18	Combining Activity Profiling with Advanced Annotation to Accelerate the Discovery of Natural Products Targeting Oncogenic Signaling in Melanoma. <i>Journal of Natural Products</i> , 2022, 85, 1540-1554.	3.0	11

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19	High-Content Screening Pipeline for Natural Products Targeting Oncogenic Signaling in Melanoma. <i>Journal of Natural Products</i> , 2022, , .	3.0	10
20	Automated Comparative Metabolite Profiling of Large LC-ESIMS Data Sets in an ACD/MS Workbook Suite Add-in, and Data Clustering on a New Open-Source Web Platform FreeClust. <i>Analytical Chemistry</i> , 2017, 89, 12682-12689.	6.5	9
21	Stabilization of C-RAF:KSR1 complex by DiRas3 reduces availability of C-RAF for dimerization with B-RAF. <i>Cellular Signalling</i> , 2016, 28, 1451-1462.	3.6	6
22	Evolution of Bet-Hedging Mechanisms in Cell Cycle and Embryo Development Stimulated by Weak Linkage of Stochastic Processes. <i>Results and Problems in Cell Differentiation</i> , 2011, 53, 11-30.	0.7	4
23	Mining of Single-Cell Signaling Time-Series for Dynamic Phenotypes with Clustering. <i>Methods in Molecular Biology</i> , 2022, 2488, 183-206.	0.9	0