

# Michał Komorowski

## List of Publications by Year in descending order

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Version: 2024-02-01

14  
papers

558  
citations

1040056

9  
h-index

1199594

12  
g-index

16  
all docs

16  
docs citations

16  
times ranked

560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity, robustness, and identifiability in stochastic chemical kinetics models. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8645-8650.	7.1	182
2	Maximizing the Information Content of Experiments in Systems Biology. PLoS Computational Biology, 2013, 9, e1002888.	3.2	142
3	Decomposing Noise in Biochemical Signaling Systems Highlights the Role of Protein Degradation. Biophysical Journal, 2013, 104, 1783-1793.	0.5	41
4	Information-theoretic analysis of multivariate single-cell signaling responses. PLoS Computational Biology, 2019, 15, e1007132.	3.2	36
5	An information-theoretic framework for deciphering pleiotropic and noisy biochemical signaling. Nature Communications, 2018, 9, 4591.	12.8	28
6	The tyrosine phosphatase SHP2 increases robustness and information transfer within IL-6-induced JAK/STAT signalling. Cell Communication and Signaling, 2021, 19, 94.	6.5	25
7	The Limited Information Capacity of Cross-Reactive Sensors Drives the Evolutionary Expansion of Signaling. Cell Systems, 2019, 8, 76-85.e6.	6.2	22
8	Phenotypic variability, not noise, accounts for most of the cell-to-cell heterogeneity in IFN- $\beta$ and oncostatin M signaling responses. Science Signaling, 2022, 15, eabd9303.	3.6	20
9	StochSens – matlab package for sensitivity analysis of stochastic chemical systems. Bioinformatics, 2012, 28, 731-733.	4.1	17
10	Clustering reveals limits of parameter identifiability in multi-parameter models of biochemical dynamics. BMC Systems Biology, 2015, 9, 65.	3.0	17
11	Information processing in unregulated and autoregulated gene expression. , 2020, , .		10
12	Fractional response analysis reveals logarithmic cytokine responses in cellular populations. Nature Communications, 2021, 12, 4175.	12.8	9
13	Information-theoretic analyses of cellular strategies for achieving high signaling capacity – dynamics, cross-wiring, and heterogeneity of cellular states. Current Opinion in Systems Biology, 2021, 27, 100352.	2.6	7
14	Making sense of BMP signaling complexity. Cell Systems, 2022, 13, 349-351.	6.2	2