Pawel Paszek

List of Publications by Year
in descending order

31 papers	2,503 citations	279798 23 h-index	454955 30 g-index
38 all docs	38 docs citations	38 times ranked	3433 citing authors

#	Article	IF	Citations
1	Pulsatile Stimulation Determines Timing and Specificity of NF-ÎºB-Dependent Transcription. Science, 2009, 324, 242-246.	12.6	510
2	Fenamate NSAIDs inhibit the NLRP3 inflammasome and protect against Alzheimerâ€™s disease in rodent models. Nature Communications, 2016, 7, 12504.	12.8	328
3	Mathematical model of NF-ÎºB regulatory module. Journal of Theoretical Biology, 2004, 228, 195-215.	1.7	264
4	Inflammasome-dependent IL-1Î² release depends upon membrane permeabilisation. Cell Death and Differentiation, 2016, 23, 1219-1231.	11.2	214
5	Population robustness arising from cellular heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 11644-11649.	7.1	172
6	Transcriptional stochasticity in gene expression. Journal of Theoretical Biology, 2006, 238, 348-367.	1.7	120
7	Physiological levels of TNFÎ± stimulation induce stochastic dynamics of NF-ÎºB responses in single living cells. Journal of Cell Science, 2010, 123, 2834-2843.	2.0	102
8	Stochastic Regulation in Early Immune Response. Biophysical Journal, 2006, 90, 725-742.	0.5	86
9	Signal transduction controls heterogeneous NF-ÎºB dynamics and target gene expression through cytokine-specific refractory states. Nature Communications, 2016, 7, 12057.	12.8	80
10	Single TNFÎ± trimers mediating NF-Îº B activation: stochastic robustness of NF-Îº B signaling. BMC Bioinformatics, 2007, 8, 376.	2.6	60
11	Quantitative analysis of competitive cytokine signaling predicts tissue thresholds for the propagation of macrophage activation. Science Signaling, 2018, 11, .	3.6	55
12	Integration of Kinase and Calcium Signaling at the Level of Chromatin Underlies Inducible Gene Activation in T Cells. Journal of Immunology, 2017, 199, 2652-2667.	0.8	51
13	Dynamic NF-ÎºB and E2F interactions control the priority and timing of inflammatory signalling and cell proliferation. ELife, 2016, 5, .	6.0	50
14	Dynamic organisation of prolactin gene expression in living pituitary tissue. Journal of Cell Science, 2010, 123, 424-430.	2.0	45
15	Oscillatory control of signalling molecules. Current Opinion in Genetics and Development, 2010, 20, 670-676.	3.3	43
16	Quantitative dynamic imaging of immune cell signalling using lentiviral gene transfer. Integrative Biology (United Kingdom), 2015, 7, 713-725.	1.3	40
17	Stochasticity in the miR-9/Hes1 oscillatory network can account for clonal heterogeneity in the timing of differentiation. ELife, 2016, 5, .	6.0	40
18	Modeling Stochasticity in Gene Regulation: Characterization in the Terms of the Underlying Distribution Function. Bulletin of Mathematical Biology, 2007, 69, 1567-1601.	1.9	33

#	Article	IF	Citations
19	Macrophage-Specific NF-Î¹B Activation Dynamics Can Segregate Inflammatory Bowel Disease Patients. Frontiers in Immunology, 2019, 10, 2168.	4.8	31
20	Interactions among oscillatory pathways in NF-kappa B signaling. BMC Systems Biology, 2011, 5, 23.	3.0	30
21	A systematic survey of the response of a model NF-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0020.gif" overflow="scroll"><mml:mi>Î¹</mml:mi><mml:mi mathvariant="normal">B</mml:mi></mml:math> signalling pathway to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0021.gif" overflow="scroll"><mml:mi>TNF</mml:mi><mml:mi>Î±</mml:mi></mml:math> stimulation. Journal of Theoretical Biology, 2012, 297, 137-147.	1.7	25
22	Anti-inflammatory effects of infliximab in mice are independent of tumour necrosis factor Î± neutralization. Clinical and Experimental Immunology, 2017, 187, 225-233.	2.6	25
23	Stochastic effects of multiple regulators on expression profiles in eukaryotes. Journal of Theoretical Biology, 2005, 233, 423-433.	1.7	24
24	Quantitative analysis reveals crosstalk mechanisms of heat shock-induced attenuation of NF-Î¹B signaling at the single cell level. PLoS Computational Biology, 2018, 14, e1006130.	3.2	17
25	A method of â€˜speed coefficientsâ€™ for biochemical model reduction applied to the NF- $$upkappa $$ Î¹ B system. Journal of Mathematical Biology, 2015, 70, 591-620.	1.9	14
26	Gene-Specific Linear Trends Constrain Transcriptional Variability of the Toll-like Receptor Signaling. Cell Systems, 2020, 11, 300-314.e8.	6.2	14
27	How the Number of Alleles Influences Gene Expression. Journal of Statistical Physics, 2007, 128, 511-533.	1.2	13
28	Heat shock response regulates stimulus-specificity and sensitivity of the pro-inflammatory NF-Î¹B signalling. Cell Communication and Signaling, 2020, 18, 77.	6.5	10
29	From measuring noise toward integrated single-cell biology. Frontiers in Genetics, 2014, 5, 408.	2.3	3
30	Application of Sensitivity Analysis to Discover Potential Molecular Drug Targets. International Journal of Molecular Sciences, 2022, 23, 6604.	4.1	3
31	Investigating IL-1Î² Secretion Using Real-Time Single-Cell Imaging. Methods in Molecular Biology, 2016, 1417, 75-88.	0.9	0