

David Spiller

List of Publications by Year in descending order

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75
papers

4,668
citations

94269

37
h-index

102304

66
g-index

82
all docs

82
docs citations

82
times ranked

6633
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsatile Stimulation Determines Timing and Specificity of NF- κ B-Dependent Transcription. <i>Science</i> , 2009, 324, 242-246.	6.0	510
2	Measurement of single-cell dynamics. <i>Nature</i> , 2010, 465, 736-745.	13.7	468
3	Encoded Microcarriers For High-Throughput Multiplexed Detection. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6104-6117.	7.2	347
4	Dynamic Analysis of Stochastic Transcription Cycles. <i>PLoS Biology</i> , 2011, 9, e1000607.	2.6	206
5	Population robustness arising from cellular heterogeneity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 11644-11649.	3.3	172
6	Unregulated actin polymerization by WASp causes defects of mitosis and cytokinesis in X-linked neutropenia. <i>Journal of Experimental Medicine</i> , 2007, 204, 2213-2224.	4.2	158
7	Cathepsin L Digestion of Nanobioconjugates upon Endocytosis. <i>ACS Nano</i> , 2009, 3, 2461-2468.	7.3	110
8	Fluorescent or not? Size-dependent fluorescence switching for polymer-stabilized gold clusters in the 1.1–1.7 nm size range. <i>Chemical Communications</i> , 2008, , 3986.	2.2	108
9	Physiological levels of TNF \pm stimulation induce stochastic dynamics of NF- κ B responses in single living cells. <i>Journal of Cell Science</i> , 2010, 123, 2834-2843.	1.2	102
10	Localization of orexin-1 receptors to vagal afferent neurons in the rat and humans. <i>Gastroenterology</i> , 2003, 124, 129-139.	0.6	99
11	Phosphoramidate oligonucleotides as potent antisense molecules in cells and in vivo. <i>Nature Biotechnology</i> , 2001, 19, 40-44.	9.4	98
12	Edible Mushroom (<i>Agaricus bisporus</i>) Lectin, Which Reversibly Inhibits Epithelial Cell Proliferation, Blocks Nuclear Localization Sequence-dependent Nuclear Protein Import. <i>Journal of Biological Chemistry</i> , 1999, 274, 4890-4899.	1.6	97
13	<i>In Situ</i> Detection and Measurement of Intracellular Reactive Oxygen Species in Single Isolated Mature Skeletal Muscle Fibers by Real Time Fluorescence Microscopy. <i>Antioxidants and Redox Signaling</i> , 2008, 10, 1463-1474.	2.5	92
14	Multi-parameter analysis of the kinetics of NF- κ B signalling and transcription in single living cells. <i>Journal of Cell Science</i> , 2002, 115, 1137-48.	1.2	92
15	Single base discrimination for ribonuclease H-dependent antisense effects within intact human leukaemia cells. <i>Nucleic Acids Research</i> , 1995, 23, 954-961.	6.5	86
16	Tuneable mechanical properties in low molecular weight gels. <i>Soft Matter</i> , 2011, 7, 9721.	1.2	80
17	Signal transduction controls heterogeneous NF- κ B dynamics and target gene expression through cytokine-specific refractory states. <i>Nature Communications</i> , 2016, 7, 12057.	5.8	80
18	The Digestive Food Vacuole of the Malaria Parasite Is a Dynamic Intracellular Ca ²⁺ Store. <i>Journal of Biological Chemistry</i> , 2003, 278, 27910-27915.	1.6	73

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19	CLL, but not normal, B cells are dependent on autocrine VEGF and $\alpha 4 \beta 1$ integrin for chemokine-induced motility on and through endothelium. <i>Blood</i> , 2005, 105, 4813-4819.	0.6	73
20	Mammalian NADH diphosphatases of the Nudix family: cloning and characterization of the human peroxisomal NUDT12 protein. <i>Biochemical Journal</i> , 2003, 374, 329-335.	1.7	71
21	NF- κ B signalling is inhibited by glucocorticoid receptor and STAT6 via distinct mechanisms. <i>Journal of Cell Science</i> , 2003, 116, 2495-2503.	1.2	70
22	Low molecular weight gelatorâ€“dextran composites. <i>Chemical Communications</i> , 2010, 46, 6738.	2.2	66
23	Automated tracking of gene expression in individual cells and cell compartments. <i>Journal of the Royal Society Interface</i> , 2006, 3, 787-794.	1.5	59
24	A Simple Method for Preparing Spectrally Encoded Magnetic Beads for Multiplexed Detection. <i>ACS Nano</i> , 2007, 1, 487-493.	7.3	58
25	Calcium-dependent regulation of the cell cycle via a novel MAPKâ€“NF- κ B pathway in Swiss 3T3 cells. <i>Journal of Cell Biology</i> , 2004, 166, 661-672.	2.3	56
26	Tight Control of Hypoxia-inducible Factor-1 α Transient Dynamics Is Essential for Cell Survival in Hypoxia. <i>Journal of Biological Chemistry</i> , 2014, 289, 5549-5564.	1.6	56
27	Quantitative analysis of competitive cytokine signaling predicts tissue thresholds for the propagation of macrophage activation. <i>Science Signaling</i> , 2018, 11, .	1.6	55
28	Endothelial activation and apoptosis mediated by neutrophil-dependent interleukin 6 trans-signalling: a novel target for systemic sclerosis?. <i>Annals of the Rheumatic Diseases</i> , 2011, 70, 366-372.	0.5	52
29	Spatially coordinated dynamic gene transcription in living pituitary tissue. <i>ELife</i> , 2016, 5, e08494.	2.8	51
30	The effect of polymer additives on the rheological properties of dipeptide hydrogelators. <i>Soft Matter</i> , 2012, 8, 7797.	1.2	50
31	Dynamic NF- κ B and E2F interactions control the priority and timing of inflammatory signalling and cell proliferation. <i>ELife</i> , 2016, 5, .	2.8	50
32	Automatic tracking of biological cells and compartments using particle filters and active contours. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2006, 82, 276-282.	1.8	49
33	Glucocorticoid receptor regulates accurate chromosome segregation and is associated with malignancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5479-5484.	3.3	48
34	Magnetic microspheres encoded with photoluminescent quantum dots for multiplexed detection. <i>Journal of Materials Chemistry</i> , 2007, 17, 4400.	6.7	47
35	Visualizing and Quantifying Intracellular Behavior and Abundance of the Core Circadian Clock Protein PERIOD2. <i>Current Biology</i> , 2016, 26, 1880-1886.	1.8	47
36	Dynamic organisation of prolactin gene expression in living pituitary tissue. <i>Journal of Cell Science</i> , 2010, 123, 424-430.	1.2	45

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37	The organisation of elastin and fibrillins 1 and 2 in the cruciate ligament complex. <i>Journal of Anatomy</i> , 2011, 218, 600-607.	0.9	41
38	Stochasticity in the miR-9/Hes1 oscillatory network can account for clonal heterogeneity in the timing of differentiation. <i>ELife</i> , 2016, 5, .	2.8	40
39	Distribution of acridine orange fluorescence in <i>Plasmodium falciparum</i> -infected erythrocytes and its implications for the evaluation of digestive vacuole pH. <i>Molecular and Biochemical Parasitology</i> , 2002, 119, 301-304.	0.5	38
40	Mitochondrial dynamics regulate genome stability via control of caspase-dependent DNA damage. <i>Developmental Cell</i> , 2022, 57, 1211-1225.e6.	3.1	37
41	Highly Stable Dextran-Coated Quantum Dots for Biomolecular Detection and Cellular Imaging. <i>Chemistry of Materials</i> , 2010, 22, 6361-6369.	3.2	34
42	The pH of the <i>Plasmodium falciparum</i> digestive vacuole: holy grail or dead-end trail?. <i>Trends in Parasitology</i> , 2002, 18, 441-444.	1.5	32
43	Real-Time Visualization of Human Prolactin Alternate Promoter Usage in Vivo Using a Double-Transgenic Rat Model. <i>Molecular Endocrinology</i> , 2009, 23, 529-538.	3.7	32
44	Quantitative measurement of single cell dynamics. <i>Current Opinion in Biotechnology</i> , 2012, 23, 103-109.	3.3	32
45	Heterodimeric interaction and interfaces of S100A1 and S100P. <i>Biochemical Journal</i> , 2004, 382, 375-383.	1.7	31
46	Macrophage-Specific NF- κ B Activation Dynamics Can Segregate Inflammatory Bowel Disease Patients. <i>Frontiers in Immunology</i> , 2019, 10, 2168.	2.2	31
47	The molecular action of the novel insecticide, Pyridalyl. <i>Insect Biochemistry and Molecular Biology</i> , 2011, 41, 459-469.	1.2	29
48	Pulsatile patterns of pituitary hormone gene expression change during development. <i>Journal of Cell Science</i> , 2011, 124, 3484-3491.	1.2	29
49	Cell Motility in Chronic Lymphocytic Leukemia: Defective Rap1 and $\hat{\pm}\hat{L}^2$ Activation by Chemokine. <i>Cancer Research</i> , 2008, 68, 8429-8436.	0.4	27
50	p63 is required beside p53 for PERP-mediated apoptosis in uveal melanoma. <i>British Journal of Cancer</i> , 2016, 115, 983-992.	2.9	27
51	Quantitative live imaging of Venus::BMAL1 in a mouse model reveals complex dynamics of the master circadian clock regulator. <i>PLoS Genetics</i> , 2020, 16, e1008729.	1.5	21
52	Quantification of protein abundance and interaction defines a mechanism for operation of the circadian clock. <i>ELife</i> , 2022, 11, .	2.8	18
53	Quantitative analysis reveals crosstalk mechanisms of heat shock-induced attenuation of NF- κ B signaling at the single cell level. <i>PLoS Computational Biology</i> , 2018, 14, e1006130.	1.5	17
54	Further comments on the distribution of acridine orange fluorescence in <i>P. falciparum</i> “infected erythrocytes. <i>Molecular and Biochemical Parasitology</i> , 2002, 119, 311-313.	0.5	16

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55	Interactive segmentation of clustered cells via geodesic commute distance and constrained density weighted Nyström method. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2010, 77A, 1137-1147.	1.1	16
56	Density-dependent location and interactions of truncated APC and β -catenin. <i>Oncogene</i> , 2004, 23, 1412-1419.	2.6	15
57	Microencapsulation using an oil-in-water-in-air "dry water emulsion"™. <i>Chemical Communications</i> , 2011, 47, 8253.	2.2	13
58	Understanding the dynamics of Toll-like Receptor 5 response to flagellin and its regulation by estradiol. <i>Scientific Reports</i> , 2017, 7, 40981.	1.6	13
59	Asymmetry between Activation and Deactivation during a Transcriptional Pulse. <i>Cell Systems</i> , 2017, 5, 646-653.e5.	2.9	13
60	ER stress-linked autophagy stabilizes apoptosis effector PERP and triggers its co-localization with SERCA2b at ER-plasma membrane junctions. <i>Cell Death Discovery</i> , 2019, 5, 132.	2.0	12
61	Chronic inflammatory arthritis drives systemic changes in circadian energy metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2112781119.	3.3	11
62	Serine 162, an Essential Residue for the Mitochondrial Localization, Stability and Anti-Apoptotic Function of Mcl-1. <i>PLoS ONE</i> , 2012, 7, e45088.	1.1	10
63	Heat shock response regulates stimulus-specificity and sensitivity of the pro-inflammatory NF- κ B signalling. <i>Cell Communication and Signaling</i> , 2020, 18, 77.	2.7	10
64	Using systems medicine to identify a therapeutic agent with potential for repurposing in inflammatory bowel disease. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	1.2	9
65	Prediction of recurrence in pituitary tumours: a flow cytometric study using in vivo bromodeoxyuridine. <i>British Journal of Neurosurgery</i> , 1993, 7, 165-169.	0.4	8
66	Dynamic analysis of STAT6 signalling in living cells. <i>FEBS Letters</i> , 2002, 532, 188-192.	1.3	5
67	Role of Estrogen Response Element in the Human Prolactin Gene: Transcriptional Response and Timing. <i>Molecular Endocrinology</i> , 2016, 30, 189-200.	3.7	5
68	Transcription Factor Pit-1 Affects Transcriptional Timing in the Dual-Promoter Human Prolactin Gene. <i>Endocrinology</i> , 2021, 162, .	1.4	5
69	Chimeric oligodeoxynucleotide analogs: Chemical synthesis, purification, and molecular and cellular biology protocols. <i>Methods in Enzymology</i> , 2000, 313, 95-135.	0.4	4
70	Information management for high content live cell imaging. <i>BMC Bioinformatics</i> , 2009, 10, 226.	1.2	4
71	Calcium dynamics and chromatin remodelling underlie heterogeneity in prolactin transcription. <i>Journal of Molecular Endocrinology</i> , 2021, 66, 59-69.	1.1	1
72	CellCut: A framework for interactive tracking of protein translocations between cell nucleus and cytoplasm. , 2011, , .		0

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73	Investigating IL-1 β Secretion Using Real-Time Single-Cell Imaging. <i>Methods in Molecular Biology</i> , 2016, 1417, 75-88.	0.4	0
74	Pulsatile patterns of pituitary hormone gene expression change during development. <i>Development (Cambridge)</i> , 2011, 138, e2208-e2208.	1.2	0
75	Complexities in the role of acetylation dynamics in modifying inducible gene activation parameters. <i>Nucleic Acids Research</i> , 2021, 49, 12744-12756.	6.5	0