Daniel R Larson

List of Publications by Year
in descending order

64 papers	11,065 citations	109321 35 h-index	138484 58 g-index
72 all docs	72 docs citations	72 times ranked	13842 citing authors

#	Article	IF	Citations
1	Water-Soluble Quantum Dots for Multiphoton Fluorescence Imaging in Vivo. Science, 2003, 300, 1434-1436.	12.6	2,218
2	Precise Nanometer Localization Analysis for Individual Fluorescent Probes. Biophysical Journal, 2002, 82, 2775-2783.	0.5	2,149
3	Bright and Stable Coreâ˜Shell Fluorescent Silica Nanoparticles. Nano Letters, 2005, 5, 113-117.	9.1	872
4	Single-RNA counting reveals alternative modes of gene expression in yeast. Nature Structural and Molecular Biology, 2008, 15, 1263-1271.	8.2	642
5	Real-Time Observation of Transcription Initiation and Elongation on an Endogenous Yeast Gene. Science, 2011, 332, 475-478.	12.6	566
6	Illuminating the Chemistry of Life: Design, Synthesis, and Applications of â€œCagedâ€•and Related Photoresponsive Compounds. ACS Chemical Biology, 2009, 4, 409-427.	3.4	383
7	Eukaryotic transcriptional dynamics: from single molecules to cell populations. Nature Reviews Genetics, 2013, 14, 572-584.	16.3	267
8	Single-Molecule mRNA Decay Measurements Reveal Promoter- Regulated mRNA Stability in Yeast. Cell, 2011, 147, 1484-1497.	28.9	238
9	Silica Nanoparticle Architecture Determines Radiative Properties of Encapsulated Fluorophores. Chemistry of Materials, 2008, 20, 2677-2684.	6.7	230
10	CTCF-Mediated Enhancer-Promoter Interaction Is a Critical Regulator of Cell-to-Cell Variation of Gene Expression. Molecular Cell, 2017, 67, 1049-1058.e6.	9.7	219
11	Blinking and nonradiant dark fraction of water-soluble quantum dots in aqueous solution. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14284-14289.	7.1	211
12	A single molecule view of gene expression. Trends in Cell Biology, 2009, 19, 630-637.	7.9	182
13	Cortactin phosphorylation regulates cell invasion through a pH-dependent pathway. Journal of Cell Biology, 2011, 195, 903-920.	5.2	181
14	Kinetic competition during the transcription cycle results in stochastic RNA processing. ELife, 2014, 3, .	6.0	177
15	Intrinsic Dynamics of a Human Gene Reveal the Basis of Expression Heterogeneity. Cell, 2019, 176, 213-226.e18.	28.9	168
16	Transcription in Living Cells: Molecular Mechanisms of Bursting. Annual Review of Biochemistry, 2020, 89, 189-212.	11.1	157
17	Liveâ€cell imaging reveals the interplay between transcription factors, nucleosomes, and bursting. EMBO Journal, 2019, 38, .	7.8	155
18	Transcription Dynamics in Living Cells. Annual Review of Biophysics, 2016, 45, 25-47.	10.0	147

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19	Direct observation of frequency modulated transcription in single cells using light activation. ELife, 2013, 2, e00750.	6.0	131
20	A Muscle-Specific Enhancer RNA Mediates Cohesin Recruitment and Regulates Transcription In trans. Molecular Cell, 2018, 71, 129-141.e8.	9.7	126
21	Temporally resolved interactions between antigen-stimulated IgE receptors and Lyn kinase on living cells. Journal of Cell Biology, 2005, 171, 527-536.	5.2	115
22	Visualization of retrovirus budding with correlated light and electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 15453-15458.	7.1	113
23	Imaging Transcription in Living Cells. Annual Review of Biophysics, 2009, 38, 173-196.	10.0	112
24	Single-Molecule Imaging Reveals a Switch between Spurious and Functional ncRNA Transcription. Molecular Cell, 2015, 60, 597-610.	9.7	112
25	Single-mRNA counting using fluorescent in situ hybridization in budding yeast. Nature Protocols, 2012, 7, 408-419.	12.0	105
26	Direct measurement of Gagâ€“Gag interaction during retrovirus assembly with FRET and fluorescence correlation spectroscopy. Journal of Cell Biology, 2003, 162, 1233-1244.	5.2	103
27	What do expression dynamics tell us about the mechanism of transcription?. Current Opinion in Genetics and Development, 2011, 21, 591-599.	3.3	98
28	Metabolic cycling in single yeast cells from unsynchronized steady-state populations limited on glucose or phosphate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 6946-6951.	7.1	89
29	Dynamic imaging of nascent RNA reveals general principles of transcription dynamics and stochastic splice site selection. Cell, 2021, 184, 2878-2895.e20.	28.9	89
30	The splicing factor U2AF1 contributes to cancer progression through a noncanonical role in translation regulation. Genes and Development, 2019, 33, 482-497.	5.9	74
31	The PCH Family Member MAYP/PSTPIP2 Directly Regulates F-Actin Bundling and Enhances Filopodia Formation and Motility in Macrophages. Molecular Biology of the Cell, 2005, 16, 2947-2959.	2.1	72
32	The transcription factor CBFB suppresses breast cancer through orchestrating translation and transcription. Nature Communications, 2019, 10, 2071.	12.8	60
33	Cytoplasmic HIV-1 RNA is mainly transported by diffusion in the presence or absence of Gag protein. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5205-13.	7.1	54
34	Splicing heterogeneity: separating signal from noise. Genome Biology, 2018, 19, 86.	8.8	54
35	What have single-molecule studies taught us about gene expression?. Genes and Development, 2016, 30, 1796-1810.	5.9	48
36	Fluctuation Analysis. Methods in Enzymology, 2016, 572, 159-191.	1.0	28

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37	Differential context-specific impact of individual core promoter elements on transcriptional dynamics. Molecular Biology of the Cell, 2017, 28, 3360-3370.	2.1	28
38	Is transcriptional regulation just going through a phase?. Molecular Cell, 2021, 81, 1579-1585.	9.7	27
39	Measuring Transcription Dynamics in Living Cells Using Fluctuation Analysis. Methods in Molecular Biology, 2013, 1042, 47-60.	0.9	25
40	MYC amplifies gene expression through global changes in transcription factor dynamics. Cell Reports, 2022, 38, 110292.	6.4	25
41	Singleâ€Molecule mRNA Detection in Live Yeast. Current Protocols in Molecular Biology, 2016, 113, 14.24.1-14.24.15.	2.9	22
42	Single-cell systems biology: Probing the basic unit of information flow. Current Opinion in Systems Biology, 2018, 8, 7-15.	2.6	19
43	The economy of photons. Nature Methods, 2010, 7, 357-359.	19.0	18
44	Complexity of RNA polymerase II elongation dynamics. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 667-672.	1.9	18
45	The Stochastic Genome and Its Role in Gene Expression. Cold Spring Harbor Perspectives in Biology, 2021, 13, a040386.	5.5	18
46	Nuclear Physics: Quantitative Single-Cell Approaches to Nuclear Organization and Gene Expression. Cold Spring Harbor Symposia on Quantitative Biology, 2010, 75, 113-126.	1.1	17
47	Towards a â€˜Spot Onâ€™ Understanding of Transcription in the Nucleus. Journal of Molecular Biology, 2021, 433, 167016.	4.2	14
48	Ribosome biogenesis is a downstream effector of the oncogenic U2AF1-S34F mutation. PLoS Biology, 2020, 18, e3000920.	5.6	13
49	Single-gene dual-color reporter cell line to analyze RNA synthesis in vivo. Methods, 2016, 103, 77-85.	3.8	12
50	A New Twist on Transcriptional Bursting. Cell, 2014, 158, 241-242.	28.9	9
51	Regulating gene expression through control of transcription factor multivalent interactions. Molecular Cell, 2022, 82, 1974-1975.	9.7	8
52	High-throughput single-molecule screen for small-molecule perturbation of splicing and transcription kinetics. Methods, 2016, 96, 59-68.	3.8	6
53	The genomeâ€”seeing it clearly now. Science, 2017, 357, 354-355.	12.6	4
54	Structure and Function in Drosophila Chromosomes: Visualizing Topological Domains. Molecular Cell, 2019, 74, 3-4.	9.7	4

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55	Adenylyl cyclase mRNA localizes to the posterior of polarized DICTYOSTELIUM cells during chemotaxis. BMC Cell Biology, 2017, 18, 23.	3.0	2
56	Transcriptional Decoding of Morphogen Gradients during Development. Developmental Cell, 2020, 54, 687-688.	7.0	2
57	Antisense transcription from lentiviral gene targeting linked to an integrated stress response in colorectal cancer cells. Molecular Therapy - Nucleic Acids, 2022, 28, 877-891.	5.1	2
58	Dark fraction and blinking of water-soluble quantum dots in solution. , 2005, , .		1
59	Myc Amplifies Gene Expression Through Global Changes in Transcription Factor Dynamics. SSRN Electronic Journal, 0, , .	0.4	1
60	Direct Observation of Retrovirus Assembly with FRET, Fluorescence Correlation Spectroscopy, and Single Particle Tracking. Microscopy and Microanalysis, 2003, 9, 1146-1147.	0.4	0
61	Understanding Gene Expression Heterogeneity in Living Cells with Single-Molecule Fluorescence Microscopy. Biophysical Journal, 2015, 108, 8a.	0.5	0
62	Single Molecule Analysis of Transcription in Live Cells Reveals the Gene Regulatory Function of MYC In Vivo. Biophysical Journal, 2017, 112, 210a-211a.	0.5	0
63	Editorial overview: Cell nucleus. Current Opinion in Cell Biology, 2019, 58, iii-iv.	5.4	0
64	Intrinsic Dynamics of an Endogenous Human Gene Reveal the Basis of Expression Heterogeneity. SSRN Electronic Journal, 0, , .	0.4	0