

Timothee Lionnet

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

6,049
citations

147566

31
h-index

253896

43
g-index

61
all docs

61
docs citations

61
times ranked

7959
citing authors

#	ARTICLE	IF	CITATIONS
1	A general method to improve fluorophores for live-cell and single-molecule microscopy. <i>Nature Methods</i> , 2015, 12, 244-250.	9.0	1,236
2	Single-Molecule Dynamics of Enhanceosome Assembly in Embryonic Stem Cells. <i>Cell</i> , 2014, 156, 1274-1285.	13.5	532
3	A transgenic mouse for in vivo detection of endogenous labeled mRNA. <i>Nature Methods</i> , 2011, 8, 165-170.	9.0	340
4	Bright photoactivatable fluorophores for single-molecule imaging. <i>Nature Methods</i> , 2016, 13, 985-988.	9.0	338
5	Real-time quantification of single RNA translation dynamics in living cells. <i>Science</i> , 2016, 352, 1425-1429.	6.0	317
6	CASFISH: CRISPR/Cas9-mediated in situ labeling of genomic loci in fixed cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11870-11875.	3.3	243
7	An RNA biosensor for imaging the first round of translation from single cells to living animals. <i>Science</i> , 2015, 347, 1367-1671.	6.0	238
8	RNA Polymerase II cluster dynamics predict mRNA output in living cells. <i>ELife</i> , 2016, 5, .	2.8	215
9	Single-molecule assay reveals strand switching and enhanced processivity of UvrD. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6439-6444.	3.3	177
10	Single-Molecule Micromanipulation Techniques. <i>Annual Review of Materials Research</i> , 2007, 37, 33-67.	4.3	153
11	<i>Drosophila</i> germ granules are structured and contain homotypic mRNA clusters. <i>Nature Communications</i> , 2015, 6, 7962.	5.8	151
12	Wringing Out DNA. <i>Physical Review Letters</i> , 2006, 96, 178102.	2.9	144
13	Colocalization of Different Influenza Viral RNA Segments in the Cytoplasm before Viral Budding as Shown by Single-molecule Sensitivity FISH Analysis. <i>PLoS Pathogens</i> , 2013, 9, e1003358.	2.1	142
14	Real-time observation of bacteriophage T4 gp41 helicase reveals an unwinding mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19790-19795.	3.3	139
15	Spatial arrangement of an RNA zipcode identifies mRNAs under post-transcriptional control. <i>Genes and Development</i> , 2012, 26, 43-53.	2.7	127
16	Modern fluorescent proteins and imaging technologies to study gene expression, nuclear localization, and dynamics. <i>Current Opinion in Cell Biology</i> , 2011, 23, 310-317.	2.6	124
17	Three-dimensional chromatin landscapes in T cell acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2020, 52, 388-400.	9.4	118
18	Imaging Transcription in Living Cells. <i>Annual Review of Biophysics</i> , 2009, 38, 173-196.	4.5	112

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19	Mapping translation 'hot-spots' in live cells by tracking single molecules of mRNA and ribosomes. <i>ELife</i> , 2016, 5, .	2.8	110
20	Transcription of functionally related constitutive genes is not coordinated. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 27-34.	3.6	102
21	mRNA quantification using single-molecule FISH in <i>Drosophila</i> embryos. <i>Nature Protocols</i> , 2017, 12, 1326-1348.	5.5	92
22	Quantitative mRNA imaging throughout the entire <i>Drosophila</i> brain. <i>Nature Methods</i> , 2017, 14, 703-706.	9.0	89
23	Synthesis of Janelia Fluor HaloTag and SNAP-Tag Ligands and Their Use in Cellular Imaging Experiments. <i>Methods in Molecular Biology</i> , 2017, 1663, 179-188.	0.4	81
24	Histone H3K27 acetylation precedes active transcription during zebrafish zygotic genome activation as revealed by live-cell analysis. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	81
25	Transcription goes digital. <i>EMBO Reports</i> , 2012, 13, 313-321.	2.0	75
26	Spatiotemporal coordination of transcription preinitiation complex assembly in live cells. <i>Molecular Cell</i> , 2021, 81, 3560-3575.e6.	4.5	57
27	DNA mechanics as a tool to probe helicase and translocase activity. <i>Nucleic Acids Research</i> , 2006, 34, 4232-4244.	6.5	56
28	Live-cell single particle imaging reveals the role of RNA polymerase II in histone H2A.Z eviction. <i>ELife</i> , 2020, 9, .	2.8	49
29	Multifocus microscopy with precise color multi-phase diffractive optics applied in functional neuronal imaging. <i>Biomedical Optics Express</i> , 2016, 7, 855.	1.5	47
30	Cellular Levels of Signaling Factors Are Sensed by $\hat{\gamma}^2$ -actin Alleles to Modulate Transcriptional Pulse Intensity. <i>Cell Reports</i> , 2015, 11, 419-432.	2.9	41
31	Imaging Transcription: Past, Present, and Future. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2015, 80, 1-8.	2.0	41
32	Single-molecule tracking of transcription protein dynamics in living cells: seeing is believing, but what are we seeing?. <i>Current Opinion in Genetics and Development</i> , 2021, 67, 94-102.	1.5	40
33	Single-Molecule Studies Using Magnetic Traps. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.top067488.	0.2	39
34	Single-molecule imaging of chromatin remodelers reveals role of ATPase in promoting fast kinetics of target search and dissociation from chromatin. <i>ELife</i> , 2021, 10, .	2.8	39
35	Transcription Factor Dynamics. <i>Cold Spring Harbor Perspectives in Biology</i> , 2021, 13, a040949.	2.3	37
36	Sequence-Dependent Twist-Stretch Coupling in DNA. <i>Biophysical Journal</i> , 2007, 92, L30-L32.	0.2	20

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37	Synthetic regulatory reconstitution reveals principles of mammalian <i>Hox</i> cluster regulation. <i>Science</i> , 2022, 377, .	6.0	18
38	Single-cell transcriptomics identifies Gadd45b as a regulator of herpesvirus-reactivating neurons. <i>EMBO Reports</i> , 2022, 23, e53543.	2.0	16
39	Single-Molecule Sensitivity RNA FISH Analysis of Influenza Virus Genome Trafficking. <i>Methods in Molecular Biology</i> , 2018, 1836, 195-211.	0.4	10
40	Imaging the Life and Death of mRNAs in Single Cells. <i>Cold Spring Harbor Perspectives in Biology</i> , 2018, 10, a032086.	2.3	8
41	Transcription, one allele at a time. <i>Genome Biology</i> , 2010, 11, 129.	3.8	2
42	Imaging the transcriptome. <i>Molecular Systems Biology</i> , 2013, 9, 710.	3.2	1
43	Using fluorescent proteins to analyze gene expression in real-time. <i>Biophysical Journal</i> , 2009, 96, 205a.	0.2	0
44	Following Single mRNAs from Birth to Death in Living Cells. <i>Biophysical Journal</i> , 2012, 102, 609a-610a.	0.2	0
45	Imaging Real-Time Gene Expression in Living Cells. <i>FASEB Journal</i> , 2009, 23, 316.3.	0.2	0