

# Xavier Darzacq

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110  
papers

10,248  
citations

49  
h-index

101  
g-index

135  
ext. papers

13,162  
ext. citations

12.3  
avg, IF

6.49  
L-index

#	Paper	IF	Citations
110	Tuning levels of low-complexity domain interactions to modulate endogenous oncogenic transcription.. <i>Molecular Cell</i> , <b>2022</b> ,	17.6	10
109	The transcription factor activity gradient (TAG) model: contemplating a contact-independent mechanism for enhancer-promoter communication.. <i>Genes and Development</i> , <b>2021</b> ,	12.6	7
108	Structure of the human SAGA coactivator complex. <i>Nature Structural and Molecular Biology</i> , <b>2021</b> , 28, 989-996	17.6	4
107	Simple, Inexpensive RNA Isolation and One-Step RT-qPCR Methods for SARS-CoV-2 Detection and General Use. <i>Current Protocols</i> , <b>2021</b> , 1, e130		5
106	Open-source RNA extraction and RT-qPCR methods for SARS-CoV-2 detection. <i>PLoS ONE</i> , <b>2021</b> , 16, e0246647	5.47	14
105	Transcription activation depends on the length of the RNA polymerase II C-terminal domain. <i>EMBO Journal</i> , <b>2021</b> , 40, e107015	13	5
104	TRIM8 modulates the EWS/FLI oncoprotein to promote survival in Ewing sarcoma. <i>Cancer Cell</i> , <b>2021</b> , 39, 1262-1278.e7	24.3	8
103	A Bayesian nonparametric approach to super-resolution single-molecule localization. <i>Annals of Applied Statistics</i> , <b>2021</b> , 15,	2.1	1
102	Overcoming the bottleneck to widespread testing: a rapid review of nucleic acid testing approaches for COVID-19 detection. <i>Rna</i> , <b>2020</b> , 26, 771-783	5.8	281
101	The Histone Chaperone FACT Induces Cas9 Multi-turnover Behavior and Modifies Genome Manipulation in Human Cells. <i>Molecular Cell</i> , <b>2020</b> , 79, 221-233.e5	17.6	12
100	Resolving the 3D Landscape of Transcription-Linked Mammalian Chromatin Folding. <i>Molecular Cell</i> , <b>2020</b> , 78, 539-553.e8	17.6	143
99	Estimating Cellular Abundances of Halo-tagged Proteins in Live Mammalian Cells by Flow Cytometry. <i>Bio-protocol</i> , <b>2020</b> , 10, e3527	0.9	2
98	Assessing Self-interaction of Mammalian Nuclear Proteins by Co-immunoprecipitation. <i>Bio-protocol</i> , <b>2020</b> , 10, e3526	0.9	2
97	Cohesin residency determines chromatin loop patterns. <i>ELife</i> , <b>2020</b> , 9,	8.9	18
96	Guided nuclear exploration increases CTCF target search efficiency. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 257-266	11.7	50
95	Single-molecule diffusometry reveals no catalysis-induced diffusion enhancement of alkaline phosphatase as proposed by FCS experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 21328-21335	11.5	16
94	Distinct Classes of Chromatin Loops Revealed by Deletion of an RNA-Binding Region in CTCF. <i>Molecular Cell</i> , <b>2019</b> , 76, 395-411.e13	17.6	97

93	Evidence for an Integrated Gene Repression Mechanism Based on mRNA Isoform Toggling in Human Cells. <i>G3: Genes, Genomes, Genetics</i> , <b>2019</b> , 9, 1045-1053	3.2	11
92	Evaluating phase separation in live cells: diagnosis, caveats, and functional consequences. <i>Genes and Development</i> , <b>2019</b> , 33, 1619-1634	12.6	221
91	Determining cellular CTCF and cohesin abundances to constrain 3D genome models. <i>ELife</i> , <b>2019</b> , 8,	8.9	59
90	Evidence for DNA-mediated nuclear compartmentalization distinct from phase separation. <i>ELife</i> , <b>2019</b> , 8,	8.9	128
89	A new class of disordered elements controls DNA replication through initiator self-assembly. <i>ELife</i> , <b>2019</b> , 8,	8.9	46
88	CTCF sites display cell cycle-dependent dynamics in factor binding and nucleosome positioning. <i>Genome Research</i> , <b>2019</b> , 29, 236-249	9.7	58
87	Recent evidence that TADs and chromatin loops are dynamic structures. <i>Nucleus</i> , <b>2018</b> , 9, 20-32	3.9	116
86	Protein motion in the nucleus: from anomalous diffusion to weak interactions. <i>Biochemical Society Transactions</i> , <b>2018</b> , 46, 945-956	5.1	32
85	RNA polymerase II clustering through carboxy-terminal domain phase separation. <i>Nature Structural and Molecular Biology</i> , <b>2018</b> , 25, 833-840	17.6	288
84	Dynamic multifactor hubs interact transiently with sites of active transcription in embryos. <i>ELife</i> , <b>2018</b> , 7,	8.9	75
83	Imaging dynamic and selective low-complexity domain interactions that control gene transcription. <i>Science</i> , <b>2018</b> , 361,	33.3	454
82	Phase-separation mechanism for C-terminal hyperphosphorylation of RNA polymerase II. <i>Nature</i> , <b>2018</b> , 558, 318-323	50.4	272
81	Robust model-based analysis of single-particle tracking experiments with Spot-On. <i>ELife</i> , <b>2018</b> , 7,	8.9	104
80	A stable mode of bookmarking by TBP recruits RNA polymerase II to mitotic chromosomes. <i>ELife</i> , <b>2018</b> , 7,	8.9	58
79	Single Molecule Imaging in Live Embryos Using Lattice Light-Sheet Microscopy. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1814, 541-559	1.4	18
78	Covalent Protein Labeling and Improved Single-Molecule Optical Properties of Aqueous CdSe/CdS Quantum Dots. <i>ACS Nano</i> , <b>2017</b> , 11, 6773-6781	16.7	36
77	Phase separation drives heterochromatin domain formation. <i>Nature</i> , <b>2017</b> , 547, 241-245	50.4	949
76	Live cell imaging of low- and non-repetitive chromosome loci using CRISPR-Cas9. <i>Nature Communications</i> , <b>2017</b> , 8, 14725	17.4	139

75	A dynamic interplay of enhancer elements regulates expression in naïve pluripotency. <i>Genes and Development</i> , <b>2017</b> , 31, 1795-1808	12.6	31
74	CTCF and cohesin regulate chromatin loop stability with distinct dynamics. <i>ELife</i> , <b>2017</b> , 6,	8.9	299
73	Mutations in the promoter of the telomerase gene contribute to tumorigenesis by a two-step mechanism. <i>Science</i> , <b>2017</b> , 357, 1416-1420	33.3	149
72	Multi-scale tracking reveals scale-dependent chromatin dynamics after DNA damage. <i>Molecular Biology of the Cell</i> , <b>2017</b> ,	3.5	44
71	Faster and less phototoxic 3D fluorescence microscopy using a versatile compressed sensing scheme. <i>Optics Express</i> , <b>2017</b> , 25, 13668-13683	3.3	7
70	Switch-like Arp2/3 activation upon WASP and WIP recruitment to an apparent threshold level by multivalent linker proteins in vivo. <i>ELife</i> , <b>2017</b> , 6,	8.9	29
69	Dense Bicoid hubs accentuate binding along the morphogen gradient. <i>Genes and Development</i> , <b>2017</b> , 31, 1784-1794	12.6	84
68	Master regulators in primary skin fibroblast fate reprogramming in a human ex vivo model of chronic wounds. <i>Wound Repair and Regeneration</i> , <b>2016</b> , 24, 247-62	3.6	9
67	A single-molecule view of transcription reveals convoys of RNA polymerases and multi-scale bursting. <i>Nature Communications</i> , <b>2016</b> , 7, 12248	17.4	152
66	Multifocus microscopy with precise color multi-phase diffractive optics applied in functional neuronal imaging. <i>Biomedical Optics Express</i> , <b>2016</b> , 7, 855-69	3.5	30
65	A dynamic mode of mitotic bookmarking by transcription factors. <i>ELife</i> , <b>2016</b> , 5,	8.9	148
64	Probing the target search of DNA-binding proteins in mammalian cells using TetR as model searcher. <i>Nature Communications</i> , <b>2015</b> , 6, 7357	17.4	127
63	Imaging Transcription: Past, Present, and Future. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2015</b> , 80, 1-8	3.9	28
62	Accessing the third dimension in localization-based super-resolution microscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16340-8	3.6	31
61	Geometry of the nucleus: a perspective on gene expression regulation. <i>Current Opinion in Chemical Biology</i> , <b>2014</b> , 20, 112-9	9.7	42
60	Transcription factors modulate c-Fos transcriptional bursts. <i>Cell Reports</i> , <b>2014</b> , 8, 75-83	10.6	169
59	Stable assembly of HIV-1 export complexes occurs cotranscriptionally. <i>Rna</i> , <b>2014</b> , 20, 1-8	5.8	21
58	The SNARE Sec22b has a non-fusogenic function in plasma membrane expansion. <i>Nature Cell Biology</i> , <b>2014</b> , 16, 434-44	23.4	93

57	Single-molecule tracking in live cells reveals distinct target-search strategies of transcription factors in the nucleus. <i>ELife</i> , <b>2014</b> , 3,	8.9	196
56	Single cell correlation fractal dimension of chromatin: a framework to interpret 3D single molecule super-resolution. <i>Nucleus</i> , <b>2014</b> , 5, 75-84	3.9	30
55	Role of the DHH1 gene in the regulation of monocarboxylic acids transporters expression in <i>Saccharomyces cerevisiae</i> . <i>PLoS ONE</i> , <b>2014</b> , 9, e111589	3.7	4
54	Author response: Single-molecule tracking in live cells reveals distinct target-search strategies of transcription factors in the nucleus <b>2014</b> ,		4
53	Quantitative nanoscopy of inhibitory synapses: counting gephyrin molecules and receptor binding sites. <i>Neuron</i> , <b>2013</b> , 79, 308-21	13.9	158
52	Real-time dynamics of RNA polymerase II clustering in live human cells. <i>Science</i> , <b>2013</b> , 341, 664-7	33.3	305
51	Fast multicolor 3D imaging using aberration-corrected multifocus microscopy. <i>Nature Methods</i> , <b>2013</b> , 10, 60-3	21.6	269
50	High-frequency promoter firing links THO complex function to heavy chromatin formation. <i>Cell Reports</i> , <b>2013</b> , 5, 1082-94	10.6	13
49	Gene expression is circular: factors for mRNA degradation also foster mRNA synthesis. <i>Cell</i> , <b>2013</b> , 153, 1000-11	56.2	233
48	Dual-color 3D PALM/dSTORM imaging of centrosomal proteins using MicAO 3DSR <b>2013</b> ,		7
47	FISH-quant: automatic counting of transcripts in 3D FISH images. <i>Nature Methods</i> , <b>2013</b> , 10, 277-8	21.6	225
46	Intra-nuclear mobility and target search mechanisms of transcription factors: a single-molecule perspective on gene expression. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2012</b> , 1819, 482-93	6	33
45	PSF shaping using adaptive optics for three-dimensional single-molecule super-resolution imaging and tracking. <i>Optics Express</i> , <b>2012</b> , 20, 4957-67	3.3	109
44	Super-resolution dynamic imaging of dendritic spines using a low-affinity photoconvertible actin probe. <i>PLoS ONE</i> , <b>2011</b> , 6, e15611	3.7	120
43	A transgenic mouse for in vivo detection of endogenous labeled mRNA. <i>Nature Methods</i> , <b>2011</b> , 8, 165-70	21.6	268
42	Short exposure to the DNA intercalator DRAQ5 dislocates the transcription machinery and induces cell death. <i>Photochemistry and Photobiology</i> , <b>2011</b> , 87, 256-61	3.6	5
41	Assessing the localization of centrosomal proteins by PALM/STORM nanoscopy. <i>Cytoskeleton</i> , <b>2011</b> , 68, 619-27	2.4	52
40	The in vivo kinetics of RNA polymerase II elongation during co-transcriptional splicing. <i>PLoS Biology</i> , <b>2011</b> , 9, e1000573	9.7	150

39	Caffeine prevents transcription inhibition and P-TEFb/7SK dissociation following UV-induced DNA damage. <i>PLoS ONE</i> , <b>2010</b> , 5, e11245	3.7	10
38	Splicing-independent recruitment of U1 snRNP to a transcription unit in living cells. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 2085-93	5.3	50
37	Imaging transcription in living cells. <i>Annual Review of Biophysics</i> , <b>2009</b> , 38, 173-96	21.1	99
36	The dynamic range of transcription. <i>Molecular Cell</i> , <b>2008</b> , 30, 545-6	17.6	10
35	In vivo dynamics of RNA polymerase II transcription. <i>Nature Structural and Molecular Biology</i> , <b>2007</b> , 14, 796-806	17.6	497
34	Stepwise RNP assembly at the site of H/ACA RNA transcription in human cells. <i>Journal of Cell Biology</i> , <b>2006</b> , 173, 207-18	7.3	136
33	Dynamic association and localization of human H/ACA RNP proteins. <i>Rna</i> , <b>2006</b> , 12, 2057-62	5.8	24
32	Cotranscriptional recognition of human intronic box H/ACA snoRNAs occurs in a splicing-independent manner. <i>Molecular and Cellular Biology</i> , <b>2006</b> , 26, 2540-9	4.8	60
31	Gene expression within a dynamic nuclear landscape. <i>EMBO Journal</i> , <b>2006</b> , 25, 3469-79	13	30
30	Dynamics of transcription and mRNA export. <i>Current Opinion in Cell Biology</i> , <b>2005</b> , 17, 332-9	9	43
29	Dynamic sorting of nuclear components into distinct nucleolar caps during transcriptional inhibition. <i>Molecular Biology of the Cell</i> , <b>2005</b> , 16, 2395-413	3.5	257
28	Dynamics of single mRNPs in nuclei of living cells. <i>Science</i> , <b>2004</b> , 304, 1797-800	33.3	433
27	Imaging gene expression in single living cells. <i>Nature Reviews Molecular Cell Biology</i> , <b>2004</b> , 5, 855-61	48.7	86
26	Modification of Sm small nuclear RNAs occurs in the nucleoplasmic Cajal body following import from the cytoplasm. <i>EMBO Journal</i> , <b>2003</b> , 22, 1878-88	13	188
25	A common sequence motif determines the Cajal body-specific localization of box H/ACA scaRNAs. <i>EMBO Journal</i> , <b>2003</b> , 22, 4283-93	13	158
24	RNA asymmetric distribution and daughter/mother differentiation in yeast. <i>Current Opinion in Microbiology</i> , <b>2003</b> , 6, 614-20	7.9	41
23	Cajal body-specific small nuclear RNAs: a novel class of 2 <sup>UO</sup> -methylation and pseudouridylation guide RNAs. <i>EMBO Journal</i> , <b>2002</b> , 21, 2746-56	13	363
22	A Cajal body-specific pseudouridylation guide RNA is composed of two box H/ACA snoRNA-like domains. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 4643-9	20.1	90

21	Processing of intron-encoded box C/D small nucleolar RNAs lacking a 5' terminal stem structure. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 4522-31	4.8	37
20	Nucleolar factors direct the 2' O-ribose methylation and pseudouridylation of U6 spliceosomal RNA. <i>Molecular and Cellular Biology</i> , <b>1999</b> , 19, 6906-17	4.8	136
19	CTCF sites display cell cycle dependent dynamics in factor binding and nucleosome positioning		1
18	A new class of disordered elements controls DNA replication through initiator self-assembly		1
17	A versatile compressed sensing scheme for faster and less phototoxic 3D fluorescence microscopy		1
16	Spot-On: robust model-based analysis of single-particle tracking experiments		2
15	Cohesin residency determines chromatin loop patterns		2
14	Inexpensive, versatile and open-source methods for SARS-CoV-2 detection		7
13	Dynamic and Selective Low-Complexity Domain Interactions Revealed by Live-Cell Single-Molecule Imaging		4
12	Transient DNA Binding Induces RNA Polymerase II Compartmentalization During Herpesviral Infection Distinct From Phase Separation		2
11	Dynamic multifactor hubs interact transiently with sites of active transcription in <i>Drosophila</i> embryos		3
10	An RNA-binding region regulates CTCF clustering and chromatin looping		12
9	Guided nuclear exploration increases CTCF target search efficiency		5
8	Resolving the 3D landscape of transcription-linked mammalian chromatin folding		10
7	A Dynamic Mode of Mitotic Bookmarking by Transcription Factors		3
6	CTCF and Cohesin Regulate Chromatin Loop Stability with Distinct Dynamics		3
5	Dense Bicoid Hubs Accentuate Binding along the Morphogen Gradient		2
4	RNA polymerase II depletion from the inactive X chromosome territory is not mediated by physical compartmentalization		1

3	Recovering mixtures of fast diffusing states from short single particle trajectories	3
2	Structure of the human SAGA coactivator complex: The divergent architecture of human SAGA allows modular coordination of transcription activation and co-transcriptional splicing	3
1	Enhancer-promoter interactions and transcription are maintained upon acute loss of CTCF, cohesin, WAPL, and YY1	8