

Ilya M Flyamer

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,984
citations

623188

14
h-index

752256

20
g-index

25
all docs

25
docs citations

25
times ranked

2502
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-nucleus Hi-C reveals unique chromatin reorganization at oocyte-to-zygote transition. <i>Nature</i> , 2017, 544, 110-114.	13.7	604
2	Active chromatin and transcription play a key role in chromosome partitioning into topologically associating domains. <i>Genome Research</i> , 2016, 26, 70-84.	2.4	311
3	A mechanism of cohesin-dependent loop extrusion organizes zygotic genome architecture. <i>EMBO Journal</i> , 2017, 36, 3600-3618.	3.5	291
4	Developmentally regulated <i>Shh</i> expression is robust to TAD perturbations. <i>Development (Cambridge)</i> , 2019, 146, .	1.2	111
5	<i>Coolpup.py</i> : versatile pile-up analysis of Hi-C data. <i>Bioinformatics</i> , 2020, 36, 2980-2985.	1.8	111
6	A central role for canonical PRC1 in shaping the 3D nuclear landscape. <i>Genes and Development</i> , 2020, 34, 931-949.	2.7	100
7	Nuclear lamina integrity is required for proper spatial organization of chromatin in <i>Drosophila</i> . <i>Nature Communications</i> , 2019, 10, 1176.	5.8	83
8	DNA Methylation Directs Polycomb-Dependent 3D Genome Re-organization in Naive Pluripotency. <i>Cell Reports</i> , 2019, 29, 1974-1985.e6.	2.9	76
9	MCM complexes are barriers that restrict cohesin-mediated loop extrusion. <i>Nature</i> , 2022, 606, 197-203.	13.7	58
10	Order and stochasticity in the folding of individual <i>Drosophila</i> genomes. <i>Nature Communications</i> , 2021, 12, 41.	5.8	49
11	Bivalent promoter hypermethylation in cancer is linked to the H3K27me3/H3K4me3 ratio in embryonic stem cells. <i>BMC Biology</i> , 2020, 18, 25.	1.7	35
12	Nuclear organisation and replication timing are coupled through RIF1-PP1 interaction. <i>Nature Communications</i> , 2021, 12, 2910.	5.8	29
13	Activation of the alpha-globin gene expression correlates with dramatic upregulation of nearby non-globin genes and changes in local and large-scale chromatin spatial structure. <i>Epigenetics and Chromatin</i> , 2017, 10, 35.	1.8	19
14	Quantitative differences in TAD border strength underly the TAD hierarchy in <i>Drosophila</i> chromosomes. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 4494-4503.	1.2	17
15	C-TALE, a new cost-effective method for targeted enrichment of Hi-C/3C-seq libraries. <i>Methods</i> , 2020, 170, 48-60.	1.9	13
16	Evolution of the Genome 3D Organization: Comparison of Fused and Segregated Globin Gene Clusters. <i>Molecular Biology and Evolution</i> , 2017, 34, 1492-1504.	3.5	10
17	Single-nucleus Hi-C of mammalian oocytes and zygotes. <i>Methods in Cell Biology</i> , 2018, 144, 389-407.	0.5	9
18	From bedside to bench: regulation of host factors in SARS-CoV-2 infection. <i>Experimental and Molecular Medicine</i> , 2021, 53, 483-494.	3.2	6

#	ARTICLE	IF	CITATIONS
19	A Mechanism of Cohesin-Dependent Loop Extrusion Organizes Mammalian Chromatin Structure in the Developing Embryo. <i>Biophysical Journal</i> , 2018, 114, 255a.	0.2	4
20	Low Level of Expression of C-Terminally Truncated Human FUS Causes Extensive Changes in the Spinal Cord Transcriptome of Asymptomatic Transgenic Mice. <i>Neurochemical Research</i> , 2020, 45, 1168-1179.	1.6	3