

Mario Nicodemi

List of Publications by Year in Descending Order

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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.

173
papers

4,907
citations

37
h-index

65
g-index

190
ext. papers

6,054
ext. citations

6.8
avg, IF

5.53
L-index

#	Paper	IF	Citations
173	A Polymer Physics Model to Dissect Genome Organization in Healthy and Pathological Phenotypes. <i>Methods in Molecular Biology</i> , 2022 , 2301, 307-316	1.4	
172	Polymer physics reveals a combinatorial code linking 3D chromatin architecture to 1D chromatin states.. <i>Cell Reports</i> , 2022 , 38, 110601	10.6	1
171	Cell-type specialization is encoded by specific chromatin topologies. <i>Nature</i> , 2021 , 599, 684-691	50.4	10
170	CTCF mediates dosage- and sequence-context-dependent transcriptional insulation by forming local chromatin domains. <i>Nature Genetics</i> , 2021 , 53, 1064-1074	36.3	14
169	Comparison of the Hi-C, GAM and SPRITE methods using polymer models of chromatin. <i>Nature Methods</i> , 2021 , 18, 482-490	21.6	12
168	Polymer models are a versatile tool to study chromatin 3D organization. <i>Biochemical Society Transactions</i> , 2021 , 49, 1675-1684	5.1	3
167	Physical mechanisms of chromatin spatial organization. <i>FEBS Journal</i> , 2021 ,	5.7	5
166	Promoter-proximal CTCF binding promotes distal enhancer-dependent gene activation. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 152-161	17.6	43
165	Polymer physics indicates chromatin folding variability across single-cells results from state degeneracy in phase separation. <i>Nature Communications</i> , 2020 , 11, 3289	17.4	25
164	A Dynamic Folded Hairpin Conformation Is Associated with β Globin Activation in Erythroid Cells. <i>Cell Reports</i> , 2020 , 30, 2125-2135.e5	10.6	18
163	Computational approaches from polymer physics to investigate chromatin folding. <i>Current Opinion in Cell Biology</i> , 2020 , 64, 10-17	9	10
162	Chromosomes Phase Transition to Function. <i>Biophysical Journal</i> , 2020 , 119, 724-725	2.9	0
161	Divergent Transcription of the Locus Generates Two Enhancer RNAs with Opposing Functions. <i>iScience</i> , 2020 , 23, 101539	6.1	3
160	Inference of chromosome 3D structures from GAM data by a physics computational approach. <i>Methods</i> , 2020 , 181-182, 70-79	4.6	6
159	Preformed chromatin topology assists transcriptional robustness of during limb development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12390-12399	11.5	72
158	Release of paused RNA polymerase II at specific loci favors DNA double-strand-break formation and promotes cancer translocations. <i>Nature Genetics</i> , 2019 , 51, 1011-1023	36.3	43
157	Modeling Single-Molecule Conformations of the HoxD Region in Mouse Embryonic Stem and Cortical Neuronal Cells. <i>Cell Reports</i> , 2019 , 28, 1574-1583.e4	10.6	14

156	The Strings and Binders Switch Model of Chromatin 2019 , 57-68		
155	Models of polymer physics for the architecture of the cell nucleus. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2019 , 11, e1444	6.6	9
154	Molecular Dynamics simulations of the Strings and Binders Switch model of chromatin. <i>Methods</i> , 2018 , 142, 81-88	4.6	19
153	Polymer physics predicts the effects of structural variants on chromatin architecture. <i>Nature Genetics</i> , 2018 , 50, 662-667	36.3	105
152	Dynamic 3D chromatin architecture contributes to enhancer specificity and limb morphogenesis. <i>Nature Genetics</i> , 2018 , 50, 1463-1473	36.3	95
151	Challenges and guidelines toward 4D nucleome data and model standards. <i>Nature Genetics</i> , 2018 , 50, 1352-1358	36.3	29
150	Single-allele chromatin interactions identify regulatory hubs in dynamic compartmentalized domains. <i>Nature Genetics</i> , 2018 , 50, 1744-1751	36.3	90
149	Predicting chromatin architecture from models of polymer physics. <i>Chromosome Research</i> , 2017 , 25, 25-34	4.4	32
148	Complex multi-enhancer contacts captured by genome architecture mapping. <i>Nature</i> , 2017 , 543, 519-524	30.4	356
147	Active and poised promoter states drive folding of the extended HoxB locus in mouse embryonic stem cells. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 515-524	17.6	61
146	Nonequilibrium Chromosome Looping via Molecular Slip Links. <i>Physical Review Letters</i> , 2017 , 119, 138107	4.4	81
145	RNA polymerase II primes Polycomb-repressed developmental genes throughout terminal neuronal differentiation. <i>Molecular Systems Biology</i> , 2017 , 13, 946	12.2	27
144	The scaling features of the 3D organization of chromosomes are highlighted by a transformation \square la Kadanoff of Hi-C data. <i>Europhysics Letters</i> , 2017 , 120, 40004	1.6	6
143	On the Nature of Chromatin 3D Organization 2017 , 191-201		
142	A Polymer Physics Investigation of the Architecture of the Murine Orthologue of the Human Locus. <i>Frontiers in Neuroscience</i> , 2017 , 11, 559	5.1	10
141	Structure of the human chromosome interaction network. <i>PLoS ONE</i> , 2017 , 12, e0188201	3.7	15
140	Single-cell analysis of CD4+ T-cell differentiation reveals three major cell states and progressive acceleration of proliferation. <i>Genome Biology</i> , 2016 , 17, 103	18.3	46
139	Polymer physics of chromosome large-scale 3D organisation. <i>Scientific Reports</i> , 2016 , 6, 29775	4.9	99

138	Polymer Physics of the Large-Scale Structure of Chromatin. <i>Methods in Molecular Biology</i> , 2016 , 1480, 201-6	1.4	4
137	Polymer models of the hierarchical folding of the Hox-B chromosomal locus. <i>Physical Review E</i> , 2016 , 94, 042402	2.4	20
136	Polymer models of the organization of chromosomes in the nucleus of cells. <i>Modern Physics Letters B</i> , 2015 , 29, 1530003	1.6	7
135	Hierarchical folding and reorganization of chromosomes are linked to transcriptional changes in cellular differentiation. <i>Molecular Systems Biology</i> , 2015 , 11, 852	12.2	229
134	Dynamic membrane patterning, signal localization and polarity in living cells. <i>Soft Matter</i> , 2015 , 11, 838-496	3.6	5
133	A stochastic model dissects cell states in biological transition processes. <i>Scientific Reports</i> , 2014 , 4, 36924.9	4.9	17
132	Models of chromosome structure. <i>Current Opinion in Cell Biology</i> , 2014 , 28, 90-5	9	76
131	Physical mechanisms behind the large scale features of chromatin organization. <i>Transcription</i> , 2014 , 5, e28447	4.8	7
130	Single-cell states in the estrogen response of breast cancer cell lines. <i>PLoS ONE</i> , 2014 , 9, e88485	3.7	3
129	Polymer physics, scaling and heterogeneity in the spatial organisation of chromosomes in the cell nucleus. <i>Soft Matter</i> , 2013 , 9, 8631	3.6	14
128	A model of the large-scale organization of chromatin. <i>Biochemical Society Transactions</i> , 2013 , 41, 508-12	5.1	17
127	A polymer model explains the complexity of large-scale chromatin folding. <i>Nucleus</i> , 2013 , 4, 267-73	3.9	29
126	Polymer models of chromatin organization. <i>Frontiers in Genetics</i> , 2013 , 4, 113	4.5	12
125	Complexity of chromatin folding is captured by the strings and binders switch model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 16173-8	11.5	343
124	Colocalization of multiple DNA loci: a physical mechanism. <i>Biophysical Journal</i> , 2012 , 103, 2223-32	2.9	4
123	Critical behavior and axis defining symmetry breaking in Hydra embryonic development. <i>Physical Review Letters</i> , 2012 , 108, 158103	7.4	15
122	Flow regimes of a fluid driven granular suspension. <i>Granular Matter</i> , 2012 , 14, 175-178	2.6	
121	Jamming phase diagram for frictional particles. <i>Physical Review E</i> , 2011 , 84, 041308	2.4	60

120	Stochastic transitions and jamming in granular pipe flow. <i>Physical Review E</i> , 2011 , 83, 031309	2.4	1
119	Mean-Field Theory of the Symmetry Breaking Model for X Chromosome Inactivation. <i>Progress of Theoretical Physics Supplement</i> , 2011 , 191, 40-45		2
118	Conformation regulation of the X chromosome inactivation center: a model. <i>PLoS Computational Biology</i> , 2011 , 7, e1002229	5	25
117	Diffusion-based DNA target colocalization by thermodynamic mechanisms. <i>Development (Cambridge)</i> , 2010 , 137, 3877-85	6.6	6
116	COMPLEX FLOW IN GRANULAR MEDIA. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010 , 13, 339-347	0.8	
115	STATISTICAL MECHANICS MODELS FOR X-CHROMOSOME INACTIVATION. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010 , 13, 367-376	0.8	
114	Passive DNA shuttling. <i>Europhysics Letters</i> , 2010 , 92, 20002	1.6	2
113	Recent results on the jamming phase diagram. <i>Soft Matter</i> , 2010 , 6, 2871	3.6	46
112	A novel approach to simulate gene-environment interactions in complex diseases. <i>BMC Bioinformatics</i> , 2010 , 11, 8	3.6	23
111	Aggregation of fibrils and plaques in amyloid molecular systems. <i>Physical Review E</i> , 2009 , 80, 041914	2.4	4
110	Symmetry breaking mechanism for epithelial cell polarization. <i>Physical Review E</i> , 2009 , 80, 031919	2.4	9
109	STATISTICAL MECHANICS OF STATIC GRANULAR PACKINGS UNDER GRAVITY. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5345-5358	1.1	1
108	DNA loci cross-talk through thermodynamics. <i>Journal of Biomedicine and Biotechnology</i> , 2009 , 2009, 516723		1
107	Electrical resistivity tomography and statistical analysis in landslide modelling: A conceptual approach. <i>Journal of Applied Geophysics</i> , 2009 , 68, 151-158	1.7	38
106	Rheology of sheared monodisperse granular suspensions. <i>European Physical Journal: Special Topics</i> , 2009 , 179, 157-163	2.3	
105	Thermodynamic pathways to genome spatial organization in the cell nucleus. <i>Biophysical Journal</i> , 2009 , 96, 2168-77	2.9	88
104	A model of volcanic magma transport by fracturing stress mechanisms. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	5
103	Mechanics and dynamics of X-chromosome pairing at X inactivation. <i>PLoS Computational Biology</i> , 2008 , 4, e1000244	5	18

102	The colocalization transition of homologous chromosomes at meiosis. <i>Physical Review E</i> , 2008 , 77, 0619134	13.4	12
101	Flow, ordering, and jamming of sheared granular suspensions. <i>Physical Review Letters</i> , 2008 , 100, 078001	7.4	36
100	Statistical properties and universality in earthquake and solar flare occurrence. <i>European Physical Journal B</i> , 2008 , 64, 551-555	1.2	9
99	A thermodynamic switch for chromosome colocalization. <i>Genetics</i> , 2008 , 179, 717-21	4	38
98	Phenomenology and theory of horizontally oscillated granular mixtures. <i>European Physical Journal E</i> , 2007 , 22, 227-34	1.5	10
97	Shear- and vibration-induced order-disorder transitions in granular media. <i>European Physical Journal E</i> , 2007 , 24, 411-5	1.5	6
96	Self-assembly and DNA binding of the blocking factor in x chromosome inactivation. <i>PLoS Computational Biology</i> , 2007 , 3, e210	5	24
95	Symmetry-breaking model for X-chromosome inactivation. <i>Physical Review Letters</i> , 2007 , 98, 108104	7.4	55
94	Phase transitions and aging phenomena in dielectriclike polymeric materials investigated by ac measurements. <i>Journal of Applied Physics</i> , 2007 , 101, 044910	2.5	6
93	Granular packs under vertical tapping: structure evolution, grain motion, and dynamical heterogeneities. <i>Physical Review E</i> , 2007 , 75, 021303	2.4	18
92	Species Segregation and Dynamical Instability of Horizontally Vibrated Granular Mixtures 2007 , 41-51		
91	Finite driving rate and anisotropy effects in landslide modeling. <i>Physical Review E</i> , 2006 , 73, 026123	2.4	19
90	Universality in solar flare and earthquake occurrence. <i>Physical Review Letters</i> , 2006 , 96, 051102	7.4	79
89	Dynamically induced effective interaction in periodically driven granular mixtures. <i>Physical Review Letters</i> , 2006 , 97, 038001	7.4	16
88	Granular species segregation under vertical tapping: effects of size, density, friction, and shaking amplitude. <i>Physical Review Letters</i> , 2006 , 96, 058001	7.4	58
87	Thermodynamics and statistical mechanics of dense granular media. <i>Physical Review Letters</i> , 2006 , 97, 158001	7.4	66
86	A cellular automaton for the factor of safety field in landslides modeling. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	27
85	Performance of genetic programming to extract the trend in noisy data series. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006 , 370, 104-108	3.3	24

84	Slow relaxation and compaction of granular systems. <i>Nature Materials</i> , 2005 , 4, 121-8	27	296
83	Shear-induced segregation of a granular mixture under horizontal oscillation. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S2549-S2556	1.8	14
82	Shear instabilities in granular mixtures. <i>Physical Review Letters</i> , 2005 , 94, 188001	7.4	53
81	Jamming transition in granular media: a mean-field approximation and numerical simulations. <i>Physical Review E</i> , 2005 , 71, 061305	2.4	13
80	Record dynamics and the observed temperature plateau in the magnetic creep-rate of type-II superconductors. <i>Physical Review B</i> , 2005 , 71,	3.3	37
79	Size segregation in granular media induced by phase transition. <i>Physical Review Letters</i> , 2005 , 95, 078001	7.4	11
78	Self-assembly and DNA binding of the blocking factor in X Chromosome Inactivation. <i>PLoS Computational Biology</i> , 2005 , preprint, e210	5	
77	Statistical Mechanics of jamming and segregation in granular media 2004 , 47-61		
76	Phase coexistence and relaxation of the spherical frustrated Blume-Emery-Griffiths model with attractive particles coupling. <i>Europhysics Letters</i> , 2004 , 65, 256-261	1.6	3
75	Time dependent phenomena in transport properties and characteristics of a model for driven vortex matter. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, 6789-6810	1.8	
74	Segregation in fluidized versus tapped packs. <i>Physical Review Letters</i> , 2004 , 93, 198002	7.4	11
73	Glass-glass transition and new dynamical singularity points in an analytically solvable p-spin glasslike model. <i>Physical Review Letters</i> , 2004 , 93, 215701	7.4	14
72	Stationary probability distribution in granular media. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 193, 292-303	3.3	6
71	On Edwards's theory of powders. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 339, 1-6	3.3	6
70	Statistical mechanics approach to the jamming transition in granular materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 344, 431-439	3.3	5
69	Glass transition in granular media. <i>Europhysics Letters</i> , 2004 , 66, 531-537	1.6	36
68	VORTEX MATTER OUT OF EQUILIBRIUM. <i>Fractals</i> , 2003 , 11, 149-159	3.2	1
67	Edwards's approach to horizontal and vertical segregation in a mixture of hard spheres under gravity. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, S1095-S1105	1.8	7

66	Peak effect in a driven lattice gas model. <i>Physical Review E</i> , 2003 , 67, 041103	2.4	2
65	Probability distribution of inherent states in models of granular media and glasses. <i>European Physical Journal E</i> , 2002 , 9, 219-26	1.5	7
64	Dynamics and thermodynamics of the spherical frustrated Blume-Emery-Griffiths model. <i>Physical Review E</i> , 2002 , 66, 046101	2.4	6
63	Thermodynamics and statistical mechanics of frozen systems in inherent states. <i>Physical Review E</i> , 2002 , 66, 061301	2.4	35
62	Equilibrium and off-equilibrium dynamics in a model for vortices in superconductors. <i>Physical Review B</i> , 2002 , 65,	3.3	13
61	Bramwell et al. Reply:. <i>Physical Review Letters</i> , 2002 , 89,	7.4	13
60	Interplay of dynamical and equilibrium phenomena in vortex matter. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2403-2412	1.8	2
59	Memory effects in response functions of driven vortex matter. <i>Europhysics Letters</i> , 2002 , 57, 348-354	1.6	7
58	Segregation in hard-sphere mixtures under gravity. An extension of Edwards approach with two thermodynamical parameters. <i>Europhysics Letters</i> , 2002 , 60, 684-690	1.6	31
57	Equilibrium distribution of the inherent states and their dynamics in glassy systems and granular media. <i>Europhysics Letters</i> , 2002 , 59, 642-647	1.6	37
56	The Inherent States of Glassy Systems and Granular Media 2002 , 74-83		
55	Continuously driven OFC: A simple model of solar flare statistics. <i>Astronomy and Astrophysics</i> , 2002 , 387, 326-334	5.1	26
54	A statistical mechanics approach to the inherent states of granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 296, 451-459	3.3	41
53	Applications of the statistical mechanics of inherent states to granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2001 , 302, 193-201	3.3	13
52	Ageing and memory phenomena in magnetic and transport properties of vortex matter. <i>Journal of Physics A</i> , 2001 , 34, 8425-8443		22
51	Off-equilibrium magnetic properties in a model of repulsive particles for vortices in superconductors. <i>Journal of Physics A</i> , 2001 , 34, L11-L18		17
50	Off-equilibrium properties of vortex creep in superconductors. <i>Europhysics Letters</i> , 2001 , 54, 566-572	1.6	10
49	Slow dynamics and aging in a constrained diffusion model. <i>Physical Review E</i> , 2001 , 63, 031106	2.4	2

48	Creep of superconducting vortices in the limit of vanishing temperature: a fingerprint of off-equilibrium dynamics. <i>Physical Review Letters</i> , 2001 , 86, 4378-81	7.4	37
47	Nicodemi and Jensen Reply:. <i>Physical Review Letters</i> , 2001 , 87,	7.4	3
46	Bramwell et al. Reply:. <i>Physical Review Letters</i> , 2001 , 87,	7.4	10
45	Second magnetisation peak relaxation in a model for vortices in superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 341-348, 1065-1066	1.3	1
44	Domains growth and packing properties in driven granular media subject to gravity. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000 , 285, 267-278	3.3	8
43	Vortex clustering: The origin of the second peak in the magnetisation loops of type-two superconductors. <i>Europhysics Letters</i> , 2000 , 52, 210-216	1.6	10
42	The jamming transition of granular media. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 6601-6610	1.8	32
41	Universal fluctuations in correlated systems. <i>Physical Review Letters</i> , 2000 , 84, 3744-7	7.4	203
40	Universality in glassy systems. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, A167-A174	1.8	20
39	INTERNAL AVALANCHES IN MODELS OF GRANULAR MEDIA. <i>Fractals</i> , 1999 , 07, 51-58	3.2	4
38	Logarithmic relaxations in a random-field lattice gas subject to gravity. <i>Physical Review E</i> , 1999 , 59, 3858-3863	2.4	4
37	Dynamical Response Functions in Models of Vibrated Granular Media. <i>Physical Review Letters</i> , 1999 , 82, 3734-3737	7.4	71
36	Density fluctuations in a model for vibrated granular media. <i>Physical Review E</i> , 1999 , 59, 6830-7	2.4	15
35	Aging in Out-of-Equilibrium Dynamics of Models for Granular Media. <i>Physical Review Letters</i> , 1999 , 82, 916-919	7.4	71
34	Scaling properties in off-equilibrium dynamical processes. <i>Physical Review E</i> , 1999 , 59, 2812-2816	2.4	12
33	Off-Equilibrium Dynamics in a Singular Diffusion Model. <i>Physical Review Letters</i> , 1999 , 83, 5054-5057	7.4	7
32	Cooperative length approach for granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 265, 311-318	3.3	8
31	Geometrical frustration: a dynamical motor for dry granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 257, 419-423	3.3	2

30	A phenomenological theory of dynamic processes in granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1998 , 257, 448-453	3-3	4
29	Stress Correlations and Weight Distributions in Granular Packs 1998 , 137-142		
28	Segregation of granular mixtures in the presence of compaction. <i>Europhysics Letters</i> , 1998 , 43, 591-597	1.6	41
27	Force Correlations and Arch Formation in Granular Assemblies. <i>Physical Review Letters</i> , 1998 , 80, 1340-1343	3-3	36
26	Macroscopic glassy relaxations and microscopic motions in a frustrated lattice gas. <i>Physical Review E</i> , 1998 , 57, R39-R42	2.4	30
25	Frustrated Models for Compact Packings 1998 , 633-638		
24	The glassy transition of the frustrated Ising lattice gas. <i>Journal of Physics A</i> , 1997 , 30, L187-L194		38
23	Frustration and slow dynamics of granular packings. <i>Physical Review E</i> , 1997 , 55, 3962-3969	2.4	112
22	A Tetris-Like Model for the Compaction of Dry Granular Media. <i>Physical Review Letters</i> , 1997 , 79, 1575-1578	3-3	137
21	The compaction in granular media and frustrated Ising models. <i>Journal of Physics A</i> , 1997 , 30, L379-L385		39
20	Percolation and cluster formalism in continuous spin systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 238, 9-22	3-3	5
19	Compaction and force propagation in granular packings. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 240, 405-418	3-3	15
18	Logarithmic Compaction in a 3D Model for Granular Media. <i>Journal De Physique, I</i> , 1997 , 7, 1535-1540		3
17	Mapping of frustrated spin systems into percolation models and Monte Carlo cluster dynamics. <i>Journal of Physics A</i> , 1996 , 29, 1961-1971		1
16	Efficient cluster dynamics for the fully frustrated XY model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1996 , 233, 293-306	3-3	9
15	Percolation and cluster Monte Carlo dynamics for spin models. <i>Physical Review E</i> , 1996 , 54, 175-189	2.4	21
14	Equilibrium Properties of the Ising Frustrated Lattice Gas. <i>Journal De Physique, I</i> , 1996 , 6, 1143-1152		37
13	Generalized percolation models for frustrated spin systems. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1994 , 16, 1259-1264		6

12	Critical clusters and efficient dynamics for frustrated spin models. <i>Physical Review Letters</i> , 1994 , 72, 1541-1544	27
11	Single-cell chromatin interactions reveal regulatory hubs in dynamic compartmentalized domains	1
10	Chromatin folding variability across single-cells results from state degeneracy in phase-separation	1
9	Multiplex-GAM: genome-wide identification of chromatin contacts yields insights not captured by Hi-C	6
8	Non-equilibrium chromosome looping via molecular slip-links	1
7	CTCF Promotes Long-range Enhancer-promoter Interactions and Lineage-specific Gene Expression in Mammalian Cells	5
6	Cell-type specialization in the brain is encoded by specific long-range chromatin topologies	3
5	Comparison of the Hi-C, GAM and SPRITE methods by use of polymer models of chromatin	3
4	CTCF Mediates Dosage and Sequence-context-dependent Transcriptional Insulation through Formation of Local Chromatin Domains	4
3	Preformed Chromatin Topology Assists Transcriptional Robustness of Shh during Limb Development	1
2	Self-organisations and emergence	1-47
1	Polymer physics and machine learning reveal a combinatorial code linking chromatin 3D architecture to 1D epigenetics	4