

Mario Nicodemi

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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	Complex multi-enhancer contacts captured by genome architecture mapping. <i>Nature</i> , 2017 , 543, 519-524	30.4	356
172	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
171	Slow relaxation and compaction of granular systems. <i>Nature Materials</i> , 2005 , 4, 121-8	27	296
170	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
169	Universal fluctuations in correlated systems. <i>Physical Review Letters</i> , 2000 , 84, 3744-7	7.4	203
168	A Tetris-Like Model for the Compaction of Dry Granular Media. <i>Physical Review Letters</i> , 1997 , 79, 1575-1578	17.8	137
167	Frustration and slow dynamics of granular packings. <i>Physical Review E</i> , 1997 , 55, 3962-3969	2.4	112
166	Polymer physics predicts the effects of structural variants on chromatin architecture. <i>Nature Genetics</i> , 2018 , 50, 662-667	36.3	105
165	Polymer physics of chromosome large-scale 3D organisation. <i>Scientific Reports</i> , 2016 , 6, 29775	4.9	99
164	Dynamic 3D chromatin architecture contributes to enhancer specificity and limb morphogenesis. <i>Nature Genetics</i> , 2018 , 50, 1463-1473	36.3	95
163	Single-allele chromatin interactions identify regulatory hubs in dynamic compartmentalized domains. <i>Nature Genetics</i> , 2018 , 50, 1744-1751	36.3	90
162	Thermodynamic pathways to genome spatial organization in the cell nucleus. <i>Biophysical Journal</i> , 2009 , 96, 2168-77	2.9	88
161	Nonequilibrium Chromosome Looping via Molecular Slip Links. <i>Physical Review Letters</i> , 2017 , 119, 138107	7.4	81
160	Universality in solar flare and earthquake occurrence. <i>Physical Review Letters</i> , 2006 , 96, 051102	7.4	79
159	Models of chromosome structure. <i>Current Opinion in Cell Biology</i> , 2014 , 28, 90-5	9	76
158	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
157	Dynamical Response Functions in Models of Vibrated Granular Media. <i>Physical Review Letters</i> , 1999 , 82, 3734-3737	7.4	71

156	Aging in Out-of-Equilibrium Dynamics of Models for Granular Media. <i>Physical Review Letters</i> , 1999 , 82, 916-919	7.4	71
155	Thermodynamics and statistical mechanics of dense granular media. <i>Physical Review Letters</i> , 2006 , 97, 158001	7.4	66
154	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
153	Jamming phase diagram for frictional particles. <i>Physical Review E</i> , 2011 , 84, 041308	2.4	60
152	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
151	Symmetry-breaking model for X-chromosome inactivation. <i>Physical Review Letters</i> , 2007 , 98, 108104	7.4	55
150	Shear instabilities in granular mixtures. <i>Physical Review Letters</i> , 2005 , 94, 188001	7.4	53
149	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
148	Recent results on the jamming phase diagram. <i>Soft Matter</i> , 2010 , 6, 2871	3.6	46
147	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
146	Promoter-proximal CTCF binding promotes distal enhancer-dependent gene activation. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 152-161	17.6	43
145	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
144	Segregation of granular mixtures in the presence of compaction. <i>Europhysics Letters</i> , 1998 , 43, 591-597	1.6	41
143	The compaction in granular media and frustrated Ising models. <i>Journal of Physics A</i> , 1997 , 30, L379-L385		39
142	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
141	The glassy transition of the frustrated Ising lattice gas. <i>Journal of Physics A</i> , 1997 , 30, L187-L194		38
140	A thermodynamic switch for chromosome colocalization. <i>Genetics</i> , 2008 , 179, 717-21	4	38
139	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

138	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
137	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
136	Equilibrium Properties of the Ising Frustrated Lattice Gas. <i>Journal De Physique, I</i> , 1996 , 6, 1143-1152		37
135	Flow, ordering, and jamming of sheared granular suspensions. <i>Physical Review Letters</i> , 2008 , 100, 078001	7.4	36
134	Glass transition in granular media. <i>Europhysics Letters</i> , 2004 , 66, 531-537	1.6	36
133	Force Correlations and Arch Formation in Granular Assemblies. <i>Physical Review Letters</i> , 1998 , 80, 1340-1343	1.4	36
132	Thermodynamics and statistical mechanics of frozen systems in inherent states. <i>Physical Review E</i> , 2002 , 66, 061301	2.4	35
131	Predicting chromatin architecture from models of polymer physics. <i>Chromosome Research</i> , 2017 , 25, 25-34	4.4	32
130	The jamming transition of granular media. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 6601-6610	1.8	32
129	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
128	Macroscopic glassy relaxations and microscopic motions in a frustrated lattice gas. <i>Physical Review E</i> , 1998 , 57, R39-R42	2.4	30
127	A polymer model explains the complexity of large-scale chromatin folding. <i>Nucleus</i> , 2013 , 4, 267-73	3.9	29
126	Challenges and guidelines toward 4D nucleome data and model standards. <i>Nature Genetics</i> , 2018 , 50, 1352-1358	36.3	29
125	RNA polymerase II primes Polycomb-repressed developmental genes throughout terminal neuronal differentiation. <i>Molecular Systems Biology</i> , 2017 , 13, 946	12.2	27
124	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
123	Critical clusters and efficient dynamics for frustrated spin models. <i>Physical Review Letters</i> , 1994 , 72, 1544-1544	1.27	27
122	Continuously driven OFC: A simple model of solar flare statistics. <i>Astronomy and Astrophysics</i> , 2002 , 387, 326-334	5.1	26
121	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

120	Conformation regulation of the X chromosome inactivation center: a model. <i>PLoS Computational Biology</i> , 2011 , 7, e1002229	5	25
119	Self-assembly and DNA binding of the blocking factor in x chromosome inactivation. <i>PLoS Computational Biology</i> , 2007 , 3, e210	5	24
118	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
117	A novel approach to simulate gene-environment interactions in complex diseases. <i>BMC Bioinformatics</i> , 2010 , 11, 8	3.6	23
116	Ageing and memory phenomena in magnetic and transport properties of vortex matter. <i>Journal of Physics A</i> , 2001 , 34, 8425-8443		22
115	Percolation and cluster Monte Carlo dynamics for spin models. <i>Physical Review E</i> , 1996 , 54, 175-189	2.4	21
114	Universality in glassy systems. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, A167-A174	1.8	20
113	Polymer models of the hierarchical folding of the Hox-B chromosomal locus. <i>Physical Review E</i> , 2016 , 94, 042402	2.4	20
112	Molecular Dynamics simulations of the Strings and Binders Switch model of chromatin. <i>Methods</i> , 2018 , 142, 81-88	4.6	19
111	Finite driving rate and anisotropy effects in landslide modeling. <i>Physical Review E</i> , 2006 , 73, 026123	2.4	19
110	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
109	Mechanics and dynamics of X-chromosome pairing at X inactivation. <i>PLoS Computational Biology</i> , 2008 , 4, e1000244	5	18
108	Granular packs under vertical tapping: structure evolution, grain motion, and dynamical heterogeneities. <i>Physical Review E</i> , 2007 , 75, 021303	2.4	18
107	A stochastic model dissects cell states in biological transition processes. <i>Scientific Reports</i> , 2014 , 4, 3692	4.9	17
106	A model of the large-scale organization of chromatin. <i>Biochemical Society Transactions</i> , 2013 , 41, 508-12	5.1	17
105	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
104	Dynamically induced effective interaction in periodically driven granular mixtures. <i>Physical Review Letters</i> , 2006 , 97, 038001	7.4	16
103	Critical behavior and axis defining symmetry breaking in Hydra embryonic development. <i>Physical Review Letters</i> , 2012 , 108, 158103	7.4	15

102	Compaction and force propagation in granular packings. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 240, 405-418	3.3	15
101	Density fluctuations in a model for vibrated granular media. <i>Physical Review E</i> , 1999 , 59, 6830-7	2.4	15
100	Structure of the human chromosome interaction network. <i>PLoS ONE</i> , 2017 , 12, e0188201	3.7	15
99	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
98	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
97	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
96	Shear-induced segregation of a granular mixture under horizontal oscillation. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S2549-S2556	1.8	14
95	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
94	Jamming transition in granular media: a mean-field approximation and numerical simulations. <i>Physical Review E</i> , 2005 , 71, 061305	2.4	13
93	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
92	Equilibrium and off-equilibrium dynamics in a model for vortices in superconductors. <i>Physical Review B</i> , 2002 , 65,	3.3	13
91	Bramwell et al. Reply:. <i>Physical Review Letters</i> , 2002 , 89,	7.4	13
90	Polymer models of chromatin organization. <i>Frontiers in Genetics</i> , 2013 , 4, 113	4.5	12
89	The colocalization transition of homologous chromosomes at meiosis. <i>Physical Review E</i> , 2008 , 77, 061913	3.4	12
88	Scaling properties in off-equilibrium dynamical processes. <i>Physical Review E</i> , 1999 , 59, 2812-2816	2.4	12
87	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
86	Segregation in fluidized versus tapped packs. <i>Physical Review Letters</i> , 2004 , 93, 198002	7.4	11
85	Size segregation in granular media induced by phase transition. <i>Physical Review Letters</i> , 2005 , 95, 078001	7.4	11

84	Computational approaches from polymer physics to investigate chromatin folding. <i>Current Opinion in Cell Biology</i> , 2020 , 64, 10-17	9	10
83	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
82	Phenomenology and theory of horizontally oscillated granular mixtures. <i>European Physical Journal E</i> , 2007 , 22, 227-34	1.5	10
81	Off-equilibrium properties of vortex creep in superconductors. <i>Europhysics Letters</i> , 2001 , 54, 566-572	1.6	10
80	Bramwell et al. Reply. <i>Physical Review Letters</i> , 2001 , 87,	7.4	10
79	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
78	Cell-type specialization is encoded by specific chromatin topologies. <i>Nature</i> , 2021 , 599, 684-691	50.4	10
77	Symmetry breaking mechanism for epithelial cell polarization. <i>Physical Review E</i> , 2009 , 80, 031919	2.4	9
76	Statistical properties and universality in earthquake and solar flare occurrence. <i>European Physical Journal B</i> , 2008 , 64, 551-555	1.2	9
75	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
74	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
73	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
72	Cooperative length approach for granular media. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 265, 311-318	3.3	8
71	Polymer models of the organization of chromosomes in the nucleus of cells. <i>Modern Physics Letters B</i> , 2015 , 29, 1530003	1.6	7
70	Physical mechanisms behind the large scale features of chromatin organization. <i>Transcription</i> , 2014 , 5, e28447	4.8	7
69	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
68	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
67	Memory effects in response functions of driven vortex matter. <i>Europhysics Letters</i> , 2002 , 57, 348-354	1.6	7

66	Off-Equilibrium Dynamics in a Singular Diffusion Model. <i>Physical Review Letters</i> , 1999 , 83, 5054-5057	7.4	7
65	The scaling features of the 3D organization of chromosomes are highlighted by a transformation à la Kadanoff of Hi-C data. <i>Europhysics Letters</i> , 2017 , 120, 40004	1.6	6
64	Diffusion-based DNA target colocalization by thermodynamic mechanisms. <i>Development (Cambridge)</i> , 2010 , 137, 3877-85	6.6	6
63	Shear- and vibration-induced order-disorder transitions in granular media. <i>European Physical Journal E</i> , 2007 , 24, 411-5	1.5	6
62	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
61	Stationary probability distribution in granular media. <i>Physica D: Nonlinear Phenomena</i> , 2004 , 193, 292-303	3.3	6
60	On Edwards's theory of powders. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004 , 339, 1-6	3.3	6
59	Dynamics and thermodynamics of the spherical frustrated Blume-Emery-Griffiths model. <i>Physical Review E</i> , 2002 , 66, 046101	2.4	6
58	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
57	Multiplex-GAM: genome-wide identification of chromatin contacts yields insights not captured by Hi-C		6
56	Inference of chromosome 3D structures from GAM data by a physics computational approach. <i>Methods</i> , 2020 , 181-182, 70-79	4.6	6
55	Dynamic membrane patterning, signal localization and polarity in living cells. <i>Soft Matter</i> , 2015 , 11, 838-496	3.9	5
54	Percolation and cluster formalism in continuous spin systems. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997 , 238, 9-22	3.3	5
53	A model of volcanic magma transport by fracturing stress mechanisms. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	5
52	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
51	CTCF Promotes Long-range Enhancer-promoter Interactions and Lineage-specific Gene Expression in Mammalian Cells		5
50	Physical mechanisms of chromatin spatial organization. <i>FEBS Journal</i> , 2021 ,	5.7	5
49	Colocalization of multiple DNA loci: a physical mechanism. <i>Biophysical Journal</i> , 2012 , 103, 2223-32	2.9	4

48	Aggregation of fibrils and plaques in amyloid molecular systems. <i>Physical Review E</i> , 2009 , 80, 041914	2.4	4
47	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
46	INTERNAL AVALANCHES IN MODELS OF GRANULAR MEDIA. <i>Fractals</i> , 1999 , 07, 51-58	3.2	4
45	Logarithmic relaxations in a random-field lattice gas subject to gravity. <i>Physical Review E</i> , 1999 , 59, 3858-3863	3.6	4
44	CTCF Mediates Dosage and Sequence-context-dependent Transcriptional Insulation through Formation of Local Chromatin Domains		4
43	Polymer physics and machine learning reveal a combinatorial code linking chromatin 3D architecture to 1D epigenetics		4
42	Polymer Physics of the Large-Scale Structure of Chromatin. <i>Methods in Molecular Biology</i> , 2016 , 1480, 201-6	1.4	4
41	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
40	Nicodemi and Jensen Reply:. <i>Physical Review Letters</i> , 2001 , 87,	7.4	3
39	Single-cell states in the estrogen response of breast cancer cell lines. <i>PLoS ONE</i> , 2014 , 9, e88485	3.7	3
38	Logarithmic Compaction in a 3D Model for Granular Media. <i>Journal De Physique, I</i> , 1997 , 7, 1535-1540		3
37	Cell-type specialization in the brain is encoded by specific long-range chromatin topologies		3
36	Comparison of the Hi-C, GAM and SPRITE methods by use of polymer models of chromatin		3
35	Divergent Transcription of the Locus Generates Two Enhancer RNAs with Opposing Functions. <i>IScience</i> , 2020 , 23, 101539	6.1	3
34	Polymer models are a versatile tool to study chromatin 3D organization. <i>Biochemical Society Transactions</i> , 2021 , 49, 1675-1684	5.1	3
33	Passive DNA shuttling. <i>Europhysics Letters</i> , 2010 , 92, 20002	1.6	2
32	Mean-Field Theory of the Symmetry Breaking Model for X Chromosome Inactivation. <i>Progress of Theoretical Physics Supplement</i> , 2011 , 191, 40-45		2
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	Peak effect in a driven lattice gas model. <i>Physical Review E</i> , 2003 , 67, 041103	2.4	2
29	Slow dynamics and aging in a constrained diffusion model. <i>Physical Review E</i> , 2001 , 63, 031106	2.4	2
28	Interplay of dynamical and equilibrium phenomena in vortex matter. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 2403-2412	1.8	2
27	STATISTICAL MECHANICS OF STATIC GRANULAR PACKINGS UNDER GRAVITY. <i>International Journal of Modern Physics B</i> , 2009 , 23, 5345-5358	1.1	1
26	DNA loci cross-talk through thermodynamics. <i>Journal of Biomedicine and Biotechnology</i> , 2009 , 2009, 516723		1
25	Stochastic transitions and jamming in granular pipe flow. <i>Physical Review E</i> , 2011 , 83, 031309	2.4	1
24	Mapping of frustrated spin systems into percolation models and Monte Carlo cluster dynamics. <i>Journal of Physics A</i> , 1996 , 29, 1961-1971		1
23	VORTEX MATTER OUT OF EQUILIBRIUM. <i>Fractals</i> , 2003 , 11, 149-159	3.2	1
22	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
21	Single-cell chromatin interactions reveal regulatory hubs in dynamic compartmentalized domains		1
20	Chromatin folding variability across single-cells results from state degeneracy in phase-separation		1
19	Non-equilibrium chromosome looping via molecular slip-links		1
18	Preformed Chromatin Topology Assists Transcriptional Robustness of Shh during Limb Development		1
17	Polymer physics reveals a combinatorial code linking 3D chromatin architecture to 1D chromatin states.. <i>Cell Reports</i> , 2022 , 38, 110601	10.6	1
16	Chromosomes Phase Transition to Function. <i>Biophysical Journal</i> , 2020 , 119, 724-725	2.9	0
15	On the Nature of Chromatin 3D Organization 2017 , 191-201		
14	Flow regimes of a fluid driven granular suspension. <i>Granular Matter</i> , 2012 , 14, 175-178	2.6	
13	COMPLEX FLOW IN GRANULAR MEDIA. <i>International Journal of Modeling, Simulation, and Scientific Computing</i> , 2010 , 13, 339-347	0.8	

- 12 STATISTICAL MECHANICS MODELS FOR X-CHROMOSOME INACTIVATION. *International Journal of Modeling, Simulation, and Scientific Computing*, **2010**, 13, 367-376 0.8
- 11 Rheology of sheared monodisperse granular suspensions. *European Physical Journal: Special Topics*, **2009**, 179, 157-163 2.3
- 10 Statistical Mechanics of jamming and segregation in granular media **2004**, 47-61
- 9 Time dependent phenomena in transport properties and characteristics of a model for driven vortex matter. *Journal of Physics Condensed Matter*, **2004**, 16, 6789-6810 1.8
- 8 Stress Correlations and Weight Distributions in Granular Packs **1998**, 137-142
- 7 Species Segregation and Dynamical Instability of Horizontally Vibrated Granular Mixtures **2007**, 41-51
- 6 The Inherent States of Glassy Systems and Granular Media **2002**, 74-83
- 5 Self-assembly and DNA binding of the blocking factor in X Chromosome Inactivation. *PLoS Computational Biology*, **2005**, preprint, e210 5
- 4 The Strings and Binders Switch Model of Chromatin **2019**, 57-68
- 3 Self-organisations and emergence 1-47
- 2 Frustrated Models for Compact Packings **1998**, 633-638
- 1 A Polymer Physics Model to Dissect Genome Organization in Healthy and Pathological Phenotypes. *Methods in Molecular Biology*, **2022**, 2301, 307-316 1.4