

Enzo Orlandini

List of Publications by Year in descending order

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224
papers

8,109
citations

57758

44
h-index

64796

79
g-index

236
all docs

236
docs citations

236
times ranked

3804
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Boltzmann simulations of liquid-gas and binary fluid systems. <i>Physical Review E</i> , 1996, 54, 5041-5052.	2.1	1,110
2	Monte carlo study of the interacting self-avoiding walk model in three dimensions. <i>Journal of Statistical Physics</i> , 1996, 82, 155-181.	1.2	289
3	Steady-state hydrodynamic instabilities of active liquid crystals: Hybrid lattice Boltzmann simulations. <i>Physical Review E</i> , 2007, 76, 031921.	2.1	227
4	Polymers with spatial or topological constraints: Theoretical and computational results. <i>Physics Reports</i> , 2011, 504, 1-73.	25.6	202
5	Lattice Boltzmann simulations of liquid crystal hydrodynamics. <i>Physical Review E</i> , 2001, 63, 056702.	2.1	176
6	DNA–DNA interactions in bacteriophage capsids are responsible for the observed DNA knotting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22269-22274.	7.1	173
7	Statistical topology of closed curves: Some applications in polymer physics. <i>Reviews of Modern Physics</i> , 2007, 79, 611-642.	45.6	161
8	A Lattice Boltzmann Model of Binary-Fluid Mixtures. <i>Europhysics Letters</i> , 1995, 32, 463-468.	2.0	160
9	Shearing Active Gels Close to the Isotropic-Nematic Transition. <i>Physical Review Letters</i> , 2008, 101, 068102.	7.8	137
10	Probing the Entanglement and Locating Knots in Ring Polymers: A Comparative Study of Different Arc Closure Schemes. <i>Progress of Theoretical Physics Supplement</i> , 2011, 191, 192-204.	0.1	129
11	Dynamical Scaling of the DNA Unzipping Transition. <i>Physical Review Letters</i> , 2001, 88, 028102.	7.8	126
12	Roles of Stiffness and Excluded Volume in DNA Denaturation. <i>Physical Review Letters</i> , 2002, 88, 198101.	7.8	114
13	Lattice Boltzmann Study of Hydrodynamic Spinodal Decomposition. <i>Physical Review Letters</i> , 1995, 75, 4031-4034.	7.8	111
14	Spinodal Decomposition to a Lamellar Phase: Effects of Hydrodynamic Flow. <i>Physical Review Letters</i> , 1997, 78, 1695-1698.	7.8	109
15	Topological friction strongly affects viral DNA ejection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 20081-20086.	7.1	103
16	Lattice Boltzmann algorithm for three-dimensional liquid crystal hydrodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 1745-1754.	3.4	98
17	Hydrodynamics and Rheology of Active Liquid Crystals: A Numerical Investigation. <i>Physical Review Letters</i> , 2007, 98, 118102.	7.8	97
18	What is the length of a knot in a polymer?. <i>Journal of Physics A</i> , 2005, 38, L15-L21.	1.6	96

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19	Asymptotics of knotted lattice polygons. <i>Journal of Physics A</i> , 1998, 31, 5953-5967.	1.6	94
20	Knotting of random ring polymers in confined spaces. <i>Journal of Chemical Physics</i> , 2006, 124, 064903.	3.0	88
21	Reactionâ€“Diffusion Processes from Equivalent Integrable Quantum Chains. <i>Annals of Physics</i> , 1997, 259, 163-231.	2.8	80
22	Biopolymer organization upon confinement. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 283102.	1.8	79
23	Shaping epigenetic memory via genomic bookmarking. <i>Nucleic Acids Research</i> , 2018, 46, 83-93.	14.5	73
24	Simulations of Knotting in Confined Circular DNA. <i>Biophysical Journal</i> , 2008, 95, 3591-3599.	0.5	69
25	Numerical Study of Linear and Circular Model DNA Chains Confined in a Slit: Metric and Topological Properties. <i>Macromolecules</i> , 2012, 45, 2113-2121.	4.8	69
26	Threading Dynamics of Ring Polymers in a Gel. <i>ACS Macro Letters</i> , 2014, 3, 255-259.	4.8	69
27	Equivalences between stochastic systems. <i>Journal of Physics A</i> , 1995, 28, 6335-6344.	1.6	66
28	Motility-induced phase separation in an active dumbbell fluid. <i>Europhysics Letters</i> , 2014, 108, 56004.	2.0	66
29	Simulations of liquid crystal hydrodynamics in the isotropic and nematic phases. <i>Europhysics Letters</i> , 2000, 52, 481-487.	2.0	61
30	Knotting and Unknotting Dynamics of DNA Strands in Nanochannels. <i>ACS Macro Letters</i> , 2014, 3, 876-880.	4.8	61
31	Size of knots in ring polymers. <i>Physical Review E</i> , 2007, 75, 041105.	2.1	60
32	Hamiltonian Dynamics Reveals the Existence of Quasistationary States for Long-Range Systems in Contact with a Reservoir. <i>Physical Review Letters</i> , 2006, 96, 240602.	7.8	58
33	Knotting and metric scaling properties of DNA confined in nano-channels: a Monte Carlo study. <i>Soft Matter</i> , 2012, 8, 10959.	2.7	58
34	Surface critical exponents for models of polymer collapse and adsorption: the universality of the Theta and Theta ' points. <i>Journal of Physics A</i> , 1992, 25, L1211-L1217.	1.6	54
35	Interacting self-avoiding walks and polygons in three dimensions. <i>Journal of Physics A</i> , 1996, 29, 2451-2463.	1.6	53
36	Incomplete Equilibrium in Long-Range Interacting Systems. <i>Physical Review Letters</i> , 2006, 97, 100601.	7.8	52

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37	Multiscale Entanglement in Ring Polymers under Spherical Confinement. <i>Physical Review Letters</i> , 2011, 107, 188302.	7.8	52
38	Synergy of topoisomerase and structural-maintenance-of-chromosomes proteins creates a universal pathway to simplify genome topology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8149-8154.	7.1	51
39	Lattice Boltzmann simulations of lamellar and droplet phases. <i>Physical Review E</i> , 1998, 58, 480-485.	2.1	50
40	Switching dynamics in cholesteric blue phases. <i>Soft Matter</i> , 2011, 7, 3295.	2.7	49
41	The writhe of a self-avoiding polygon. <i>Journal of Physics A</i> , 1993, 26, L981-L986.	1.6	47
42	The writhe of a self-avoiding walk. <i>Journal of Physics A</i> , 1994, 27, L333-L338.	1.6	47
43	Knot probability for lattice polygons in confined geometries. <i>Journal of Physics A</i> , 1994, 27, 347-360.	1.6	47
44	Mechanical denaturation of DNA: existence of a low-temperature denaturation. <i>Journal of Physics A</i> , 2001, 34, L751-L758.	1.6	45
45	Permeative Flows in Cholesteric Liquid Crystals. <i>Physical Review Letters</i> , 2004, 92, 188301.	7.8	45
46	Structure and Dynamics of Ring Polymers: Entanglement Effects Because of Solution Density and Ring Topology. <i>Macromolecules</i> , 2011, 44, 8668-8680.	4.8	45
47	Adsorption of a directed polymer subject to an elongational force. <i>Journal of Physics A</i> , 2004, 37, 1535-1543.	1.6	44
48	Exploring the correlation between the folding rates of proteins and the entanglement of their native states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 504001.	2.1	44
49	Anisotropy of Water Droplets on Single Rectangular Posts. <i>Langmuir</i> , 2009, 25, 5619-5625.	3.5	43
50	Stretching Response of Knotted and Unknotted Polymer Chains. <i>Physical Review Letters</i> , 2015, 115, 188301.	7.8	43
51	Knotting and supercoiling in circular DNA: A model incorporating the effect of added salt. <i>Physical Review E</i> , 1994, 49, 868-872.	2.1	42
52	Polymer model with Epigenetic Recoloring Reveals a Pathway for the <i>de novo</i> Establishment and 3D Organization of Chromatin Domains. <i>Physical Review X</i> , 2016, 6, .	8.9	42
53	KymoKnot: A web server and software package to identify and locate knots in trajectories of linear or circular polymers. <i>European Physical Journal E</i> , 2018, 41, 72.	1.6	40
54	Physical principles of retroviral integration in the human genome. <i>Nature Communications</i> , 2019, 10, 575.	12.8	38

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55	Monte Carlo results for projected self-avoiding polygons: a two-dimensional model for knotted polymers. <i>Journal of Physics A</i> , 1999, 32, 1359-1385.	1.6	36
56	Single-File Escape of Colloidal Particles from Microfluidic Channels. <i>Physical Review Letters</i> , 2016, 117, 038001.	7.8	34
57	Entropic exponents of lattice polygons with specified knot type. <i>Journal of Physics A</i> , 1996, 29, L299-L303.	1.6	33
58	The Writhe of Knots in the Cubic Lattice. <i>Journal of Knot Theory and Its Ramifications</i> , 1997, 06, 31-44.	0.3	33
59	Phase diagram of magnetic polymers. <i>European Physical Journal B</i> , 1999, 12, 261-268.	1.5	33
60	Phase ordering in nematic liquid crystals. <i>Physical Review E</i> , 2001, 64, 021701.	2.1	33
61	Rheology of Cholesteric Blue Phases. <i>Physical Review Letters</i> , 2005, 95, 097801.	7.8	33
62	Is the kinetoplast DNA a percolating network of linked rings at its critical point?. <i>Physical Biology</i> , 2015, 12, 036001.	1.8	33
63	Linking in domain-swapped protein dimers. <i>Scientific Reports</i> , 2016, 6, 33872.	3.3	33
64	Physical Links: defining and detecting inter-chain entanglement. <i>Scientific Reports</i> , 2017, 7, 1156.	3.3	33
65	A self-avoiding walk model of random copolymer adsorption. <i>Journal of Physics A</i> , 1999, 32, 469-477.	1.6	32
66	Microcanonical quasistationarity of long-range interacting systems in contact with a heat bath. <i>Physical Review E</i> , 2009, 79, 011102.	2.1	31
67	Self-assembling knots of controlled topology by designing the geometry of patchy templates. <i>Nature Communications</i> , 2015, 6, 6423.	12.8	31
68	Random linking of lattice polygons. <i>Journal of Physics A</i> , 1994, 27, 335-345.	1.6	30
69	Dynamics of self-threading ring polymers in a gel. <i>Soft Matter</i> , 2014, 10, 5936-5944.	2.7	30
70	Discovering privileged topologies of molecular knots with self-assembling models. <i>Nature Communications</i> , 2018, 9, 3051.	12.8	30
71	Sequence and structural patterns detected in entangled proteins reveal the importance of co-translational folding. <i>Scientific Reports</i> , 2019, 9, 8426.	3.3	30
72	Knotting of linear DNA in nano-slits and nano-channels: a numerical study. <i>Journal of Biological Physics</i> , 2013, 39, 267-275.	1.5	29

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73	Non-monotonic knotting probability and knot length of semiflexible rings: the competing roles of entropy and bending energy. <i>Soft Matter</i> , 2017, 13, 4260-4267.	2.7	29
74	Simulations of liquid crystals in Poiseuille flow. <i>Computational and Theoretical Polymer Science</i> , 2001, 11, 389-395.	1.1	28
75	Bistable Defect Structures In Blue Phase Devices. <i>Physical Review Letters</i> , 2011, 107, 237803.	7.8	28
76	Phase separation dynamics on curved surfaces. <i>Soft Matter</i> , 2013, 9, 1178-1187.	2.7	28
77	Polymer $\hat{\nu}_c$ -point as a knot delocalization transition. <i>Physical Review E</i> , 2003, 68, 031804.	2.1	27
78	Active Brownian particles escaping a channel in single file. <i>Physical Review E</i> , 2015, 91, 022109.	2.1	27
79	Statics and dynamics of DNA knotting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 053001.	2.1	27
80	Polymerization Induces Non-Gaussian Diffusion. <i>Frontiers in Physics</i> , 2019, 7, .	2.1	27
81	Nonequilibrium Theory of Epigenomic Microphase Separation in the Cell Nucleus. <i>Physical Review Letters</i> , 2019, 123, 228101.	7.8	27
82	Self-avoiding random surfaces: Monte Carlo study using oct-tree data-structure. <i>Journal of Physics A</i> , 1991, 24, 4619-4635.	1.6	25
83	Collapse from linear to branched polymer behavior. <i>Physical Review Letters</i> , 1992, 68, 488-491.	7.8	25
84	Random copolymers and the Morita approximation: polymer adsorption and polymer localization. <i>Journal of Physics A</i> , 2002, 35, 7729-7751.	1.6	25
85	Self-avoiding walks in a slab with attractive walls. <i>Journal of Physics A</i> , 2005, 38, L823-L828.	1.6	25
86	Optimal potentials for predicting inter-helical packing in transmembrane proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 49, 342-349.	2.6	24
87	The size of knots in polymers. <i>Physical Biology</i> , 2009, 6, 025012.	1.8	24
88	Interplay between shear flow and elastic deformations in liquid crystals. <i>Journal of Chemical Physics</i> , 2004, 121, 582.	3.0	23
89	Ranking Knots of Random, Globular Polymer Rings. <i>Physical Review Letters</i> , 2007, 99, 058301.	7.8	23
90	Ring Polymers: Threadings, Knot Electrophoresis and Topological Glasses. <i>Polymers</i> , 2017, 9, 349.	4.5	23

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91	Polymer entanglement in melts. <i>Journal of Physics A</i> , 2000, 33, L181-L186.	1.6	22
92	Interstrand distance distribution of DNA near melting. <i>Physical Review E</i> , 2003, 67, 021911.	2.1	22
93	Self-avoiding walks in a slab: rigorous results. <i>Journal of Physics A</i> , 2006, 39, 13869-13902.	1.6	22
94	Thermodynamics and entanglements of walks under stress. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07014.	2.3	22
95	Wall accumulation of bacteria with different motility patterns. <i>Physical Review E</i> , 2018, 97, 022610.	2.1	22
96	Self-avoiding surfaces, topology, and lattice animals. <i>Physical Review Letters</i> , 1992, 69, 3650-3653.	7.8	21
97	Zippering and collapse of diblock copolymers. <i>Physical Review E</i> , 2001, 63, 041801.	2.1	21
98	Rheology of distorted nematic liquid crystals. <i>Europhysics Letters</i> , 2003, 64, 406-412.	2.0	21
99	Loose, Flat Knots in Collapsed Polymers. <i>Journal of Statistical Physics</i> , 2004, 115, 681-700.	1.2	21
100	Entanglement complexity of semiflexible lattice polygons. <i>Journal of Physics A</i> , 2005, 38, L795-L800.	1.6	21
101	Lattice Boltzmann simulations of spontaneous flow in active liquid crystals: The role of boundary conditions. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2008, 149, 56-62.	2.4	21
102	The entropic cost to tie a knot. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P06012.	2.3	21
103	How Local Flexibility Affects Knot Positioning in Ring Polymers. <i>Macromolecules</i> , 2016, 49, 4656-4662.	4.8	21
104	Mechanical Pulling of Linked Ring Polymers: Elastic Response and Link Localisation. <i>Polymers</i> , 2017, 9, 327.	4.5	21
105	Phase separation in two-dimensional fluids: The role of noise. <i>Physical Review E</i> , 1999, 59, R4741-R4744.	2.1	20
106	Lamellar ordering, droplet formation and phase inversion in exotic active emulsions. <i>Scientific Reports</i> , 2019, 9, 2801.	3.3	20
107	Optimal Self-Assembly of Linked Constructs and Catenanes via Spatial Confinement. <i>ACS Macro Letters</i> , 2016, 5, 931-935.	4.8	19
108	Interplay between writhe and knotting for swollen and compact polymers. <i>Journal of Chemical Physics</i> , 2009, 131, 154902.	3.0	18

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109	Universal properties of knotted polymer rings. <i>Physical Review E</i> , 2012, 86, 031805.	2.1	18
110	Facilitated diffusion on confined DNA. <i>Physical Review E</i> , 2012, 85, 021919.	2.1	18
111	Adsorptionlike Collapse of Diblock Copolymers. <i>Physical Review Letters</i> , 2000, 84, 294-297.	7.8	17
112	RNA Denaturation: Excluded Volume, Pseudoknots, and Transition Scenarios. <i>Physical Review Letters</i> , 2003, 91, 198102.	7.8	17
113	Domain formation on curved membranes: phase separation or Turing patterns?. <i>Soft Matter</i> , 2013, 9, 9311.	2.7	17
114	Statistical mechanics of polymers subject to a force. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 343001.	2.1	17
115	Topological and entropic repulsion in biopolymers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, L09002.	2.3	17
116	Lattice ribbons: A model of double-stranded polymers. <i>Physical Review E</i> , 1994, 50, R4279-R4282.	2.1	16
117	Entangled polymers in condensed phases. <i>Journal of Chemical Physics</i> , 2004, 121, 12094-12099.	3.0	16
118	Noise-induced dynamical phase transitions in long-range systems. <i>Physical Review E</i> , 2011, 83, 040101.	2.1	16
119	Topological patterns in two-dimensional gel electrophoresis of DNA knots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5471-7.	7.1	16
120	Topologically Linked Chains in Confinement. <i>ACS Macro Letters</i> , 2019, 8, 442-446.	4.8	16
121	Dynamics of fibers growing inside soft vesicles. <i>Europhysics Letters</i> , 2007, 80, 48004.	2.0	15
122	Supercoil formation in DNA denaturation. <i>Physical Review E</i> , 2009, 80, 010903.	2.1	15
123	Switching and defect dynamics in multistable liquid crystal devices. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	15
124	Topological Signatures of Globular Polymers. <i>Physical Review Letters</i> , 2011, 106, 258301.	7.8	15
125	Curvature-driven positioning of Turing patterns in phase-separating curved membranes. <i>Soft Matter</i> , 2016, 12, 3888-3896.	2.7	15
126	Spatial confinement induces hairpins in nicked circular DNA. <i>Nucleic Acids Research</i> , 2017, 45, 4905-4914.	14.5	15

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127	Translocation of links through a pore: effects of link complexity and size. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 043203.	2.3	15
128	Entanglement complexity of lattice ribbons. <i>Journal of Statistical Physics</i> , 1996, 85, 103-130.	1.2	14
129	Different pulling modes in DNA overstretching: A theoretical analysis. <i>Physical Review E</i> , 2010, 81, 051926.	2.1	14
130	Adsorbing polymers subject to an elongational force: the effect of pulling direction. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 485005.	2.1	14
131	Magnetic polymer models for epigenetics-driven chromosome folding. <i>Physical Review E</i> , 2019, 100, 052410.	2.1	14
132	Sequence Randomness and Polymer Collapse Transitions. <i>Physical Review Letters</i> , 1999, 83, 112-115.	7.8	13
133	Exact enumeration and Monte Carlo results for self-avoiding walks in a slab. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 7509-7521.	2.1	13
134	Knot localization in adsorbing polymer rings. <i>Physical Review E</i> , 2007, 76, 051804.	2.1	13
135	Rings in random environments: sensing disorder through topology. <i>Soft Matter</i> , 2015, 11, 1100-1106.	2.7	13
136	Linking of Ring Polymers in Slit-Like Confinement. <i>Macromolecules</i> , 2017, 50, 1713-1718.	4.8	13
137	Sorting ring polymers by knot type with modulated nanochannels. <i>Soft Matter</i> , 2017, 13, 795-802.	2.7	13
138	Driven Translocation of Linked Ring Polymers through a Pore. <i>Macromolecules</i> , 2017, 50, 9437-9444.	4.8	13
139	Epigenetic Transitions and Knotted Solitons in Stretched Chromatin. <i>Scientific Reports</i> , 2017, 7, 14642.	3.3	13
140	Monte Carlo Study of Polymer Systems by Multiple Markov Chain Method. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1998, , 33-57.	0.5	13
141	Deciphering the folding kinetics of transmembrane helical proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14229-14234.	7.1	12
142	Permeative flows in cholesterics: Shear and Poiseuille flows. <i>Journal of Chemical Physics</i> , 2006, 124, 204906.	3.0	12
143	Slow topological time scale of knotted polymers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 122002.	2.1	12
144	Shearing self-propelled suspensions: Arrest of coarsening and suppression of giant density fluctuations. <i>Physical Review E</i> , 2011, 84, 031930.	2.1	12

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145	Entropic elasticity and dynamics of the bacterial chromosome: A simulation study. <i>Journal of Chemical Physics</i> , 2017, 147, 044908.	3.0	12
146	Self-averaging in models of random copolymer collapse. <i>Journal of Physics A</i> , 2000, 33, 259-266.	1.6	11
147	Anisotropy of domain growth in nematic liquid crystals. <i>Liquid Crystals</i> , 2003, 30, 1455-1462.	2.2	11
148	Phase diagrams for DNA denaturation under stretching forces. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, L04001.	2.3	11
149	Directed walk models of adsorbing semi-flexible polymers subject to an elongational force. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 315202.	2.1	11
150	Polymers undergoing inhomogeneous adsorption: exact results and Monte Carlo simulations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 405004.	2.1	11
151	Knotting dynamics of DNA chains of different length confined in nanochannels. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354102.	1.8	11
152	Vesicle adsorption on a plane: Scaling regimes and crossover phenomena. <i>Physical Review E</i> , 1993, 48, R4203-R4206.	2.1	10
153	The shapes of self-avoiding polygons with torsion. <i>Journal of Physics A</i> , 1997, 30, L693-L698.	1.6	10
154	Pulling a polymer at an interface: directed walk models. <i>Journal of Physics A</i> , 2004, 37, 5305-5314.	1.6	10
155	Adsorption and localization of random copolymers subject to a force: The Morita approximation. <i>European Physical Journal B</i> , 2004, 40, 63-71.	1.5	10
156	Condensation of helium in interstitial sites of carbon nanotubes bundles. <i>Physical Review B</i> , 2006, 74, .	3.2	10
157	Hydrodynamic of Active Liquid Crystals: A Hybrid Lattice Boltzmann Approach. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 494, 293-308.	0.9	10
158	Modelling the adsorption of a polymer subject to an elongational force by directed walk models. <i>Journal of Mathematical Chemistry</i> , 2009, 45, 72-94.	1.5	10
159	Electric Field Controlled Columnar and Planar Patterning of Cholesteric Colloids. <i>Physical Review Letters</i> , 2015, 114, 177801.	7.8	10
160	Topological and physical links in soft matter systems. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 013002.	1.8	10
161	Dynamical integral transform on fractal sets and the computation of entropy. <i>Physica D: Nonlinear Phenomena</i> , 1993, 63, 282-298.	2.8	9
162	A Monte Carlo algorithm for lattice ribbons. <i>Journal of Statistical Physics</i> , 1996, 82, 1159-1198.	1.2	9

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163	Lattice-Boltzmann Simulations of Complex Fluids. International Journal of Modern Physics C, 1997, 08, 783-792.	1.7	9
164	Collapsing animals. Journal of Physics A, 1999, 32, 1567-1584.	1.6	9
165	Self-averaging in the statistical mechanics of some lattice models. Journal of Physics A, 2002, 35, 4219-4227.	1.6	9
166	Scaling of a Collapsed Polymer Globule in Two Dimensions. Physical Review Letters, 2006, 96, 040602.	7.8	9
167	Knotting in stretched polygons. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 015003.	2.1	9
168	Hydrodynamics of non-homogeneous active gels. Soft Matter, 2010, 6, 774.	2.7	9
169	Flexoelectric switching in cholesteric blue phases. Soft Matter, 2013, 9, 4831.	2.7	9
170	Knotted Globular Ring Polymers: How Topology Affects Statistics and Thermodynamics. Macromolecules, 2014, 47, 8466-8476.	4.8	9
171	Separation of Geometrical and Topological Entanglement in Confined Polymers Driven out of Equilibrium. ACS Macro Letters, 2020, 9, 1081-1085.	4.8	9
172	Cholesteric Shells: Two-Dimensional Blue Fog and Finite Quasicrystals. Physical Review Letters, 2022, 128, 027801.	7.8	9
173	Brownian non-Gaussian polymer diffusion and queuing theory in the mean-field limit. New Journal of Physics, 2022, 24, 023003.	2.9	9
174	Polymers critical point originates Brownian non-Gaussian diffusion. Physical Review E, 2021, 104, L062501.	2.1	9
175	Monte Carlo study of 3D vesicles. Physica A: Statistical Mechanics and Its Applications, 1992, 185, 160-165.	2.6	8
176	Bending-rigidity-driven transition and crumpling-point scaling of lattice vesicles. Physical Review E, 1996, 53, 5800-5807.	2.1	8
177	Self-averaging in random self-interacting polygons. Journal of Physics A, 2001, 34, L37-L44.	1.6	8
178	Switching hydrodynamics in multi-domain, twisted nematic, liquid-crystal devices. Europhysics Letters, 2005, 71, 604-610.	2.0	8
179	Pulling polymers adsorbed on a striped surface. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 055001.	2.1	8
180	Meromorphic structure of the Mellin transforms and short-distance behavior of correlation integrals. Journal of Statistical Physics, 1992, 66, 515-533.	1.2	7

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181	A simple model of DNA denaturation and mutually avoiding walks statistics. <i>European Physical Journal B</i> , 2002, 29, 129-134.	1.5	7
182	Nonequilibrium Statistical Mechanics of the Heat Bath for Two Brownian Particles. <i>Physical Review Letters</i> , 2014, 112, 180605.	7.8	7
183	Topological Disentanglement Dynamics of Torus Knots on Open Linear Polymers. <i>ACS Macro Letters</i> , 2019, , 576-581.	4.8	7
184	Linear polymers with competing interactions: Swollen linear, swollen branched, and compact scaling regimes. <i>Physical Review E</i> , 1995, 52, 5214-5227.	2.1	6
185	Lattice Boltzmann study of spinodal decomposition in structured fluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1997, 240, 277-285.	2.6	6
186	Knotted polygons with curvature in. <i>Journal of Physics A</i> , 1998, 31, 9441-9454.	1.6	6
187	NOSÁ%-HOOVER AND LANGEVIN THERMOSTATS DO NOT REPRODUCE THE NONEQUILIBRIUM BEHAVIOR OF LONG-RANGE HAMILTONIANS. <i>International Journal of Modern Physics B</i> , 2007, 21, 4000-4006.	2.0	6
188	Knot probability of polygons subjected to a force: a Monte Carlo study. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 025003.	2.1	6
189	Geometry and topology of knotted ring polymers in an array of obstacles. <i>Physical Review E</i> , 2010, 82, 050804.	2.1	6
190	Nonequilibrium statistical mechanics in one-dimensional bose gases. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 063303.	2.3	6
191	Shear dynamics of an inverted nematic emulsion. <i>Soft Matter</i> , 2016, 12, 8195-8213.	2.7	6
192	Topological Disentanglement of Linear Polymers under Tension. <i>Polymers</i> , 2020, 12, 2580.	4.5	6
193	Asymptotics of linked polygons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 385002.	2.1	6
194	Topological Friction and Relaxation Dynamics of Spatially Confined Catenated Polymers. <i>ACS Macro Letters</i> , 2022, 11, 1-6.	4.8	6
195	Torsion of polygons in. <i>Journal of Physics A</i> , 1997, 30, 5179-5194.	1.6	5
196	Higher order Morita approximations for random copolymer adsorption. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F289-F298.	2.1	5
197	Equilibrium and dynamical behavior in the Vicsek model for self-propelled particles under shear. <i>Open Physics</i> , 2012, 10, .	1.7	5
198	Modelling the deceleration of COVID-19 spreading. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 044002.	2.1	5

#	ARTICLE	IF	CITATIONS
199	Topology and Geometry of Biopolymers. The IMA Volumes in Mathematics and Its Applications, 1996, , 21-37.	0.5	5
200	The rise and fall of branching: A slowing down mechanism in relaxing wormlike micellar networks. Journal of Chemical Physics, 2021, 155, 214905.	3.0	5
201	Shear dynamics in cholesterics. Computer Physics Communications, 2005, 169, 122-125.	7.5	4
202	Lattice Boltzmann Simulations of Cholesteric Liquid Crystals: Permeative Flows, Doubly Twisted Textures and Cubic Blue Phases. Molecular Crystals and Liquid Crystals, 2005, 435, 185/[845]-198/[858].	0.9	4
203	Viscoelastic Flows of Cholesteric Liquid Crystals. Molecular Crystals and Liquid Crystals, 2007, 465, 1-14.	0.9	4
204	Self-assembly of knots and links. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 034003.	2.3	4
205	Switching dynamics in cholesteric liquid crystal emulsions. Journal of Chemical Physics, 2017, 147, 064903.	3.0	4
206	Topological Sieving of Rings According to Their Rigidity. ACS Macro Letters, 2018, 7, 1408-1412.	4.8	4
207	Topological Entanglement Complexity of Polymer Chains in Confined Geometries. The IMA Volumes in Mathematics and Its Applications, 1998, , 135-157.	0.5	4
208	Singularities of the potential and energy integrals and scaling laws for the dimensions TM spectra. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 1221-1245.	0.2	3
209	Twist in an exactly solvable directed lattice ribbon. Journal of Statistical Physics, 1995, 80, 781-791.	1.2	3
210	Interacting elastic lattice polymers: A study of the free energy of globular rings. Physical Review E, 2014, 89, 062601.	2.1	3
211	Aging of living polymer networks: a model with patchy particles. Soft Matter, 2020, 16, 9543-9552.	2.7	3
212	Corrections to the Scaling Laws of Integrated Wavelets from Singularities of Mellin Transforms. Europhysics Letters, 1993, 21, 719-722.	2.0	2
213	Entropic approach curves of a polymer of fixed topology. Europhysics Letters, 2006, 76, 519-525.	2.0	2
214	New results on the melting thermodynamics of a circular DNA chain. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 3002-3006.	2.6	2
215	Publisher's Note: Active Brownian particles escaping a channel in single file [Phys. Rev. E91, 022109 (2015)]. Physical Review E, 2015, 91, .	2.1	2
216	Asymptotics of multicomponent linked polygons. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 235002.	2.1	2

#	ARTICLE	IF	CITATIONS
217	Investigating site-selection mechanisms of retroviral integration in supercoiled DNA braids. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210229.	3.4	2
218	Dynamic and facilitated binding of topoisomerase accelerates topological relaxation. <i>Nucleic Acids Research</i> , 2022, 50, 4659-4668.	14.5	2
219	Finite-size scaling in unbiased translocation dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P05019.	2.3	1
220	Statistical topology and knotting of fluctuating filaments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 504, 155-175.	2.6	1
221	Linking and link complexity of geometrically constrained pairs of rings. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 505002.	2.1	1
222	Phase diagrams of confined square lattice linked polygons. <i>Physical Review E</i> , 2021, 104, 064134.	2.1	1
223	Topological and geometrical entanglement in a model of circular DNA undergoing denaturation. <i>European Physical Journal B</i> , 2002, 28, 467-473.	1.5	0
224	Rheology of an Inverted Cholesteric Droplet under Shear Flow. <i>Fluids</i> , 2018, 3, 47.	1.7	0