

Enzo Orlandini

List of Publications by Year in descending order

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Version: 2024-02-01

224
papers

8,109
citations

57631

44
h-index

64668

79
g-index

236
all docs

236
docs citations

236
times ranked

3804
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Topological and physical links in soft matter systems. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 013002. | 0.7 | 10 |
| 2 | Cholesteric Shells: Two-Dimensional Blue Fog and Finite Quasicrystals. <i>Physical Review Letters</i> , 2022, 128, 027801. | 2.9 | 9 |
| 3 | Brownian non-Gaussian polymer diffusion and queuing theory in the mean-field limit. <i>New Journal of Physics</i> , 2022, 24, 023003. | 1.2 | 9 |
| 4 | Topological Friction and Relaxation Dynamics of Spatially Confined Catenated Polymers. <i>ACS Macro Letters</i> , 2022, 11, 1-6. | 2.3 | 6 |
| 5 | Dynamic and facilitated binding of topoisomerase accelerates topological relaxation. <i>Nucleic Acids Research</i> , 2022, 50, 4659-4668. | 6.5 | 2 |
| 6 | Modelling the deceleration of COVID-19 spreading. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 044002. | 0.7 | 5 |
| 7 | Asymptotics of multicomponent linked polygons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 235002. | 0.7 | 2 |
| 8 | Investigating site-selection mechanisms of retroviral integration in supercoiled DNA braids. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210229. | 1.5 | 2 |
| 9 | The rise and fall of branching: A slowing down mechanism in relaxing wormlike micellar networks. <i>Journal of Chemical Physics</i> , 2021, 155, 214905. | 1.2 | 5 |
| 10 | Linking and link complexity of geometrically constrained pairs of rings. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 505002. | 0.7 | 1 |
| 11 | Polymers critical point originates Brownian non-Gaussian diffusion. <i>Physical Review E</i> , 2021, 104, L062501. | 0.8 | 9 |
| 12 | Phase diagrams of confined square lattice linked polygons. <i>Physical Review E</i> , 2021, 104, 064134. | 0.8 | 1 |
| 13 | Aging of living polymer networks: a model with patchy particles. <i>Soft Matter</i> , 2020, 16, 9543-9552. | 1.2 | 3 |
| 14 | Separation of Geometrical and Topological Entanglement in Confined Polymers Driven out of Equilibrium. <i>ACS Macro Letters</i> , 2020, 9, 1081-1085. | 2.3 | 9 |
| 15 | Topological Disentanglement of Linear Polymers under Tension. <i>Polymers</i> , 2020, 12, 2580. | 2.0 | 6 |
| 16 | Translocation of links through a pore: effects of link complexity and size. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2020, 2020, 043203. | 0.9 | 15 |
| 17 | Asymptotics of linked polygons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 385002. | 0.7 | 6 |
| 18 | Polymerization Induces Non-Gaussian Diffusion. <i>Frontiers in Physics</i> , 2019, 7, . | 1.0 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Sequence and structural patterns detected in entangled proteins reveal the importance of co-translational folding. <i>Scientific Reports</i> , 2019, 9, 8426. | 1.6 | 30 |
| 20 | Topological Disentanglement Dynamics of Torus Knots on Open Linear Polymers. <i>ACS Macro Letters</i> , 2019, , 576-581. | 2.3 | 7 |
| 21 | Lamellar ordering, droplet formation and phase inversion in exotic active emulsions. <i>Scientific Reports</i> , 2019, 9, 2801. | 1.6 | 20 |
| 22 | 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. | 3.3 | 51 |
| 23 | Topologically Linked Chains in Confinement. <i>ACS Macro Letters</i> , 2019, 8, 442-446. | 2.3 | 16 |
| 24 | Physical principles of retroviral integration in the human genome. <i>Nature Communications</i> , 2019, 10, 575. | 5.8 | 38 |
| 25 | Nonequilibrium Theory of Epigenomic Microphase Separation in the Cell Nucleus. <i>Physical Review Letters</i> , 2019, 123, 228101. | 2.9 | 27 |
| 26 | Magnetic polymer models for epigenetics-driven chromosome folding. <i>Physical Review E</i> , 2019, 100, 052410. | 0.8 | 14 |
| 27 | Wall accumulation of bacteria with different motility patterns. <i>Physical Review E</i> , 2018, 97, 022610. | 0.8 | 22 |
| 28 | Shaping epigenetic memory via genomic bookmarking. <i>Nucleic Acids Research</i> , 2018, 46, 83-93. | 6.5 | 73 |
| 29 | Statistical topology and knotting of fluctuating filaments. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 504, 155-175. | 1.2 | 1 |
| 30 | Statics and dynamics of DNA knotting. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 053001. | 0.7 | 27 |
| 31 | Topological Sieving of Rings According to Their Rigidity. <i>ACS Macro Letters</i> , 2018, 7, 1408-1412. | 2.3 | 4 |
| 32 | Discovering privileged topologies of molecular knots with self-assembling models. <i>Nature Communications</i> , 2018, 9, 3051. | 5.8 | 30 |
| 33 | Rheology of an Inverted Cholesteric Droplet under Shear Flow. <i>Fluids</i> , 2018, 3, 47. | 0.8 | 0 |
| 34 | 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. | 0.7 | 40 |
| 35 | Linking of Ring Polymers in Slit-Like Confinement. <i>Macromolecules</i> , 2017, 50, 1713-1718. | 2.2 | 13 |
| 36 | Spatial confinement induces hairpins in nicked circular DNA. <i>Nucleic Acids Research</i> , 2017, 45, 4905-4914. | 6.5 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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. | 1.2 | 29 |
| 38 | Self-assembly of knots and links. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2017, 2017, 034003. | 0.9 | 4 |
| 39 | Sorting ring polymers by knot type with modulated nanochannels. <i>Soft Matter</i> , 2017, 13, 795-802. | 1.2 | 13 |
| 40 | Entropic elasticity and dynamics of the bacterial chromosome: A simulation study. <i>Journal of Chemical Physics</i> , 2017, 147, 044908. | 1.2 | 12 |
| 41 | Physical Links: defining and detecting inter-chain entanglement. <i>Scientific Reports</i> , 2017, 7, 1156. | 1.6 | 33 |
| 42 | Switching dynamics in cholesteric liquid crystal emulsions. <i>Journal of Chemical Physics</i> , 2017, 147, 064903. | 1.2 | 4 |
| 43 | Driven Translocation of Linked Ring Polymers through a Pore. <i>Macromolecules</i> , 2017, 50, 9437-9444. | 2.2 | 13 |
| 44 | 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. | 0.7 | 44 |
| 45 | Mechanical Pulling of Linked Ring Polymers: Elastic Response and Link Localisation. <i>Polymers</i> , 2017, 9, 327. | 2.0 | 21 |
| 46 | Ring Polymers: Threadings, Knot Electrophoresis and Topological Glasses. <i>Polymers</i> , 2017, 9, 349. | 2.0 | 23 |
| 47 | Epigenetic Transitions and Knotted Solitons in Stretched Chromatin. <i>Scientific Reports</i> , 2017, 7, 14642. | 1.6 | 13 |
| 48 | Nonequilibrium statistical mechanics in one-dimensional bose gases. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2016, 2016, 063303. | 0.9 | 6 |
| 49 | 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, . | 2.8 | 42 |
| 50 | Linking in domain-swapped protein dimers. <i>Scientific Reports</i> , 2016, 6, 33872. | 1.6 | 33 |
| 51 | Shear dynamics of an inverted nematic emulsion. <i>Soft Matter</i> , 2016, 12, 8195-8213. | 1.2 | 6 |
| 52 | Statistical mechanics of polymers subject to a force. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 343001. | 0.7 | 17 |
| 53 | Optimal Self-Assembly of Linked Constructs and Catenanes via Spatial Confinement. <i>ACS Macro Letters</i> , 2016, 5, 931-935. | 2.3 | 19 |
| 54 | Single-File Escape of Colloidal Particles from Microfluidic Channels. <i>Physical Review Letters</i> , 2016, 117, 038001. | 2.9 | 34 |

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|----|--|-----|-----------|
| 55 | How Local Flexibility Affects Knot Positioning in Ring Polymers. <i>Macromolecules</i> , 2016, 49, 4656-4662. | 2.2 | 21 |
| 56 | Curvature-driven positioning of Turing patterns in phase-separating curved membranes. <i>Soft Matter</i> , 2016, 12, 3888-3896. | 1.2 | 15 |
| 57 | Stretching Response of Knotted and Unknotted Polymer Chains. <i>Physical Review Letters</i> , 2015, 115, 188301. | 2.9 | 43 |
| 58 | Self-assembling knots of controlled topology by designing the geometry of patchy templates. <i>Nature Communications</i> , 2015, 6, 6423. | 5.8 | 31 |
| 59 | Active Brownian particles escaping a channel in single file. <i>Physical Review E</i> , 2015, 91, 022109. | 0.8 | 27 |
| 60 | Publisher's Note: Active Brownian particles escaping a channel in single file [Phys. Rev. E91, 022109 (2015)]. <i>Physical Review E</i> , 2015, 91, . | 0.8 | 2 |
| 61 | Electric Field Controlled Columnar and Planar Patterning of Cholesteric Colloids. <i>Physical Review Letters</i> , 2015, 114, 177801. | 2.9 | 10 |
| 62 | 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. | 3.3 | 16 |
| 63 | Knotting dynamics of DNA chains of different length confined in nanochannels. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354102. | 0.7 | 11 |
| 64 | Is the kinetoplast DNA a percolating network of linked rings at its critical point?. <i>Physical Biology</i> , 2015, 12, 036001. | 0.8 | 33 |
| 65 | Rings in random environments: sensing disorder through topology. <i>Soft Matter</i> , 2015, 11, 1100-1106. | 1.2 | 13 |
| 66 | Motility-induced phase separation in an active dumbbell fluid. <i>Europhysics Letters</i> , 2014, 108, 56004. | 0.7 | 66 |
| 67 | Knotted Globular Ring Polymers: How Topology Affects Statistics and Thermodynamics. <i>Macromolecules</i> , 2014, 47, 8466-8476. | 2.2 | 9 |
| 68 | Dynamics of self-threading ring polymers in a gel. <i>Soft Matter</i> , 2014, 10, 5936-5944. | 1.2 | 30 |
| 69 | Interacting elastic lattice polymers: A study of the free energy of globular rings. <i>Physical Review E</i> , 2014, 89, 062601. | 0.8 | 3 |
| 70 | Knotting and Unknotting Dynamics of DNA Strands in Nanochannels. <i>ACS Macro Letters</i> , 2014, 3, 876-880. | 2.3 | 61 |
| 71 | Nonequilibrium Statistical Mechanics of the Heat Bath for Two Brownian Particles. <i>Physical Review Letters</i> , 2014, 112, 180605. | 2.9 | 7 |
| 72 | Threading Dynamics of Ring Polymers in a Gel. <i>ACS Macro Letters</i> , 2014, 3, 255-259. | 2.3 | 69 |

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|----|---|------|-----------|
| 73 | Finite-size scaling in unbiased translocation dynamics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P05019. | 0.9 | 1 |
| 74 | Knotting of linear DNA in nano-slits and nano-channels: a numerical study. <i>Journal of Biological Physics</i> , 2013, 39, 267-275. | 0.7 | 29 |
| 75 | Pulling polymers adsorbed on a striped surface. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 055001. | 0.7 | 8 |
| 76 | 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. | 3.3 | 103 |
| 77 | Domain formation on curved membranes: phase separation or Turing patterns?. <i>Soft Matter</i> , 2013, 9, 9311. | 1.2 | 17 |
| 78 | Phase separation dynamics on curved surfaces. <i>Soft Matter</i> , 2013, 9, 1178-1187. | 1.2 | 28 |
| 79 | Flexoelectric switching in cholesteric blue phases. <i>Soft Matter</i> , 2013, 9, 4831. | 1.2 | 9 |
| 80 | Universal properties of knotted polymer rings. <i>Physical Review E</i> , 2012, 86, 031805. | 0.8 | 18 |
| 81 | Facilitated diffusion on confined DNA. <i>Physical Review E</i> , 2012, 85, 021919. | 0.8 | 18 |
| 82 | Knotting and metric scaling properties of DNA confined in nano-channels: a Monte Carlo study. <i>Soft Matter</i> , 2012, 8, 10959. | 1.2 | 58 |
| 83 | Numerical Study of Linear and Circular Model DNA Chains Confined in a Slit: Metric and Topological Properties. <i>Macromolecules</i> , 2012, 45, 2113-2121. | 2.2 | 69 |
| 84 | Equilibrium and dynamical behavior in the Vicsek model for self-propelled particles under shear. <i>Open Physics</i> , 2012, 10, . | 0.8 | 5 |
| 85 | Switching dynamics in cholesteric blue phases. <i>Soft Matter</i> , 2011, 7, 3295. | 1.2 | 49 |
| 86 | Structure and Dynamics of Ring Polymers: Entanglement Effects Because of Solution Density and Ring Topology. <i>Macromolecules</i> , 2011, 44, 8668-8680. | 2.2 | 45 |
| 87 | Polymers undergoing inhomogeneous adsorption: exact results and Monte Carlo simulations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 405004. | 0.7 | 11 |
| 88 | 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. | 0.2 | 129 |
| 89 | Polymers with spatial or topological constraints: Theoretical and computational results. <i>Physics Reports</i> , 2011, 504, 1-73. | 10.3 | 202 |
| 90 | Noise-induced dynamical phase transitions in long-range systems. <i>Physical Review E</i> , 2011, 83, 040101. | 0.8 | 16 |

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|-----|---|-----|-----------|
| 91 | Multiscale Entanglement in Ring Polymers under Spherical Confinement. <i>Physical Review Letters</i> , 2011, 107, 188302. | 2.9 | 52 |
| 92 | Bistable Defect Structures In Blue Phase Devices. <i>Physical Review Letters</i> , 2011, 107, 237803. | 2.9 | 28 |
| 93 | Shearing self-propelled suspensions: Arrest of coarsening and suppression of giant density fluctuations. <i>Physical Review E</i> , 2011, 84, 031930. | 0.8 | 12 |
| 94 | Topological Signatures of Globular Polymers. <i>Physical Review Letters</i> , 2011, 106, 258301. | 2.9 | 15 |
| 95 | New results on the melting thermodynamics of a circular DNA chain. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2010, 389, 3002-3006. | 1.2 | 2 |
| 96 | Switching and defect dynamics in multistable liquid crystal devices. <i>Applied Physics Letters</i> , 2010, 97, . | 1.5 | 15 |
| 97 | Different pulling modes in DNA overstretching: A theoretical analysis. <i>Physical Review E</i> , 2010, 81, 051926. | 0.8 | 14 |
| 98 | 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. | 0.7 | 11 |
| 99 | The entropic cost to tie a knot. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P06012. | 0.9 | 21 |
| 100 | Adsorbing polymers subject to an elongational force: the effect of pulling direction. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 485005. | 0.7 | 14 |
| 101 | Geometry and topology of knotted ring polymers in an array of obstacles. <i>Physical Review E</i> , 2010, 82, 050804. | 0.8 | 6 |
| 102 | Biopolymer organization upon confinement. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 283102. | 0.7 | 79 |
| 103 | Hydrodynamics of non-homogeneous active gels. <i>Soft Matter</i> , 2010, 6, 774. | 1.2 | 9 |
| 104 | Microcanonical quasistationarity of long-range interacting systems in contact with a heat bath. <i>Physical Review E</i> , 2009, 79, 011102. | 0.8 | 31 |
| 105 | Thermodynamics and entanglements of walks under stress. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07014. | 0.9 | 22 |
| 106 | Interplay between writhe and knotting for swollen and compact polymers. <i>Journal of Chemical Physics</i> , 2009, 131, 154902. | 1.2 | 18 |
| 107 | The size of knots in polymers. <i>Physical Biology</i> , 2009, 6, 025012. | 0.8 | 24 |
| 108 | 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. | 3.3 | 173 |

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|-----|--|-----|-----------|
| 109 | 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. | 0.7 | 10 |
| 110 | Anisotropy of Water Droplets on Single Rectangular Posts. <i>Langmuir</i> , 2009, 25, 5619-5625. | 1.6 | 43 |
| 111 | Supercoil formation in DNA denaturation. <i>Physical Review E</i> , 2009, 80, 010903. | 0.8 | 15 |
| 112 | Phase diagrams for DNA denaturation under stretching forces. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, L04001. | 0.9 | 11 |
| 113 | Topological and entropic repulsion in biopolymers. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, L09002. | 0.9 | 17 |
| 114 | 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. | 1.0 | 21 |
| 115 | Hydrodynamic of Active Liquid Crystals: A Hybrid Lattice Boltzmann Approach. <i>Molecular Crystals and Liquid Crystals</i> , 2008, 494, 293-308. | 0.4 | 10 |
| 116 | Simulations of Knotting in Confined Circular DNA. <i>Biophysical Journal</i> , 2008, 95, 3591-3599. | 0.2 | 69 |
| 117 | Knot probability of polygons subjected to a force: a Monte Carlo study. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 025003. | 0.7 | 6 |
| 118 | Knotting in stretched polygons. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 015003. | 0.7 | 9 |
| 119 | Shearing Active Gels Close to the Isotropic-Nematic Transition. <i>Physical Review Letters</i> , 2008, 101, 068102. | 2.9 | 137 |
| 120 | Slow topological time scale of knotted polymers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2008, 41, 122002. | 0.7 | 12 |
| 121 | NOSÄ%-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. | 1.0 | 6 |
| 122 | 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. | 0.7 | 13 |
| 123 | Ranking Knots of Random, Globular Polymer Rings. <i>Physical Review Letters</i> , 2007, 99, 058301. | 2.9 | 23 |
| 124 | Steady-state hydrodynamic instabilities of active liquid crystals: Hybrid lattice Boltzmann simulations. <i>Physical Review E</i> , 2007, 76, 031921. | 0.8 | 227 |
| 125 | Size of knots in ring polymers. <i>Physical Review E</i> , 2007, 75, 041105. | 0.8 | 60 |
| 126 | Knot localization in adsorbing polymer rings. <i>Physical Review E</i> , 2007, 76, 051804. | 0.8 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Statistical topology of closed curves: Some applications in polymer physics. <i>Reviews of Modern Physics</i> , 2007, 79, 611-642. | 16.4 | 161 |
| 128 | Hydrodynamics and Rheology of Active Liquid Crystals: A Numerical Investigation. <i>Physical Review Letters</i> , 2007, 98, 118102. | 2.9 | 97 |
| 129 | Dynamics of fibers growing inside soft vesicles. <i>Europhysics Letters</i> , 2007, 80, 48004. | 0.7 | 15 |
| 130 | Higher order Morita approximations for random copolymer adsorption. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, F289-F298. | 0.7 | 5 |
| 131 | Viscoelastic Flows of Cholesteric Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2007, 465, 1-14. | 0.4 | 4 |
| 132 | Condensation of helium in interstitial sites of carbon nanotubes bundles. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 10 |
| 133 | Self-avoiding walks in a slab: rigorous results. <i>Journal of Physics A</i> , 2006, 39, 13869-13902. | 1.6 | 22 |
| 134 | Entropic approach curves of a polymer of fixed topology. <i>Europhysics Letters</i> , 2006, 76, 519-525. | 0.7 | 2 |
| 135 | Knotting of random ring polymers in confined spaces. <i>Journal of Chemical Physics</i> , 2006, 124, 064903. | 1.2 | 88 |
| 136 | Permeative flows in cholesterics: Shear and Poiseuille flows. <i>Journal of Chemical Physics</i> , 2006, 124, 204906. | 1.2 | 12 |
| 137 | Scaling of a Collapsed Polymer Globule in Two Dimensions. <i>Physical Review Letters</i> , 2006, 96, 040602. | 2.9 | 9 |
| 138 | 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. | 2.9 | 58 |
| 139 | Incomplete Equilibrium in Long-Range Interacting Systems. <i>Physical Review Letters</i> , 2006, 97, 100601. | 2.9 | 52 |
| 140 | What is the length of a knot in a polymer?. <i>Journal of Physics A</i> , 2005, 38, L15-L21. | 1.6 | 96 |
| 141 | Entanglement complexity of semiflexible lattice polygons. <i>Journal of Physics A</i> , 2005, 38, L795-L800. | 1.6 | 21 |
| 142 | Shear dynamics in cholesterics. <i>Computer Physics Communications</i> , 2005, 169, 122-125. | 3.0 | 4 |
| 143 | Switching hydrodynamics in multi-domain, twisted nematic, liquid-crystal devices. <i>Europhysics Letters</i> , 2005, 71, 604-610. | 0.7 | 8 |
| 144 | Lattice Boltzmann Simulations of Cholesteric Liquid Crystals: Permeative Flows, Doubly Twisted Textures and Cubic Blue Phases. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 435, 185/[845]-198/[858]. | 0.4 | 4 |

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|-----|--|-----|-----------|
| 145 | Rheology of Cholesteric Blue Phases. <i>Physical Review Letters</i> , 2005, 95, 097801. | 2.9 | 33 |
| 146 | Self-avoiding walks in a slab with attractive walls. <i>Journal of Physics A</i> , 2005, 38, L823-L828. | 1.6 | 25 |
| 147 | Pulling a polymer at an interface: directed walk models. <i>Journal of Physics A</i> , 2004, 37, 5305-5314. | 1.6 | 10 |
| 148 | Adsorption of a directed polymer subject to an elongational force. <i>Journal of Physics A</i> , 2004, 37, 1535-1543. | 1.6 | 44 |
| 149 | Permeative Flows in Cholesteric Liquid Crystals. <i>Physical Review Letters</i> , 2004, 92, 188301. | 2.9 | 45 |
| 150 | Interplay between shear flow and elastic deformations in liquid crystals. <i>Journal of Chemical Physics</i> , 2004, 121, 582. | 1.2 | 23 |
| 151 | Lattice Boltzmann algorithm for three-dimensional liquid crystal hydrodynamics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 1745-1754. | 1.6 | 98 |
| 152 | Adsorption and localization of random copolymers subject to a force: The Morita approximation. <i>European Physical Journal B</i> , 2004, 40, 63-71. | 0.6 | 10 |
| 153 | Loose, Flat Knots in Collapsed Polymers. <i>Journal of Statistical Physics</i> , 2004, 115, 681-700. | 0.5 | 21 |
| 154 | Entangled polymers in condensed phases. <i>Journal of Chemical Physics</i> , 2004, 121, 12094-12099. | 1.2 | 16 |
| 155 | Anisotropy of domain growth in nematic liquid crystals. <i>Liquid Crystals</i> , 2003, 30, 1455-1462. | 0.9 | 11 |
| 156 | RNA Denaturation: Excluded Volume, Pseudoknots, and Transition Scenarios. <i>Physical Review Letters</i> , 2003, 91, 198102. | 2.9 | 17 |
| 157 | Interstrand distance distribution of DNA near melting. <i>Physical Review E</i> , 2003, 67, 021911. | 0.8 | 22 |
| 158 | Polymer $\hat{\nu}$ -point as a knot delocalization transition. <i>Physical Review E</i> , 2003, 68, 031804. | 0.8 | 27 |
| 159 | Rheology of distorted nematic liquid crystals. <i>Europhysics Letters</i> , 2003, 64, 406-412. | 0.7 | 21 |
| 160 | Self-averaging in the statistical mechanics of some lattice models. <i>Journal of Physics A</i> , 2002, 35, 4219-4227. | 1.6 | 9 |
| 161 | Random copolymers and the Morita approximation: polymer adsorption and polymer localization. <i>Journal of Physics A</i> , 2002, 35, 7729-7751. | 1.6 | 25 |
| 162 | Roles of Stiffness and Excluded Volume in DNA Denaturation. <i>Physical Review Letters</i> , 2002, 88, 198101. | 2.9 | 114 |

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|-----|---|-----|-----------|
| 163 | Optimal potentials for predicting inter-helical packing in transmembrane proteins. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 49, 342-349. | 1.5 | 24 |
| 164 | Topological and geometrical entanglement in a model of circular DNA undergoing denaturation. <i>European Physical Journal B</i> , 2002, 28, 467-473. | 0.6 | 0 |
| 165 | A simple model of DNA denaturation and mutually avoiding walks statistics. <i>European Physical Journal B</i> , 2002, 29, 129-134. | 0.6 | 7 |
| 166 | Simulations of liquid crystals in Poiseuille flow. <i>Computational and Theoretical Polymer Science</i> , 2001, 11, 389-395. | 1.1 | 28 |
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