Linxi Zhang

List of Publications by Year
in descending order

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96	982	643344	685536
papers	citations	15 h-index	24 g-index

97	97	97	762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sliding dynamics of ring on a fixed rod-like block copolymer in rotaxane: Molecular dynamics simulations vs Lifson-Jackson formula. Polymer, 2022, 246, 124773.	1.8	3
2	Sliding Dynamics of Ring Chains on Two Asymmetric/Symmetric Chains in a Simple Slide-Ring Gel. Polymers, 2022, 14, 79.	2.0	4
3	Sliding dynamics of multi-rings on a semiflexible polymer in poly[n]catenanes. Soft Matter, 2021, 17, 2557-2567.	1.2	10
4	Perfect helical structure of semiflexible polyelectrolyte chain confined in a cylinder. Polymer, 2021, 218, 123499.	1.8	2
5	Sliding dynamics of ring chain on a knotted polymer in rotaxane. Polymer, 2021, 235, 124226.	1.8	4
6	An attractionâ€“repulsion transition of force on two asymmetric wedges induced by active particles. Scientific Reports, 2020, 10, 11702.	1.6	3
7	Effects of Topological Constraints on Penetration Structures of Semi-Flexible Ring Polymers. Polymers, 2020, 12, 2659.	2.0	11
8	Ordered aggregation of semiflexible ring-linear blends in ellipsoidal confinement. Polymer, 2020, 197, 122494.	1.8	6
9	Ordered aggregation structures of semiflexible ring polymers in ring-linear blends. Polymer, 2019, 175, 129-136.	1.8	7
10	Entropy-Induced Separation of Binary Semiflexible Ring Polymer Mixtures in Spherical Confinement. Polymers, 2019, 11, 1992.	2.0	17
11	Unidirectional rotation of circles driven by chiral active particles. Chinese Physics B, 2018, 27, 118701.	0.7	1
12	Unusual conformations of semiflexible ring polymers confined in two parallel surfaces. Polymer, 2018, 157, 180-189.	1.8	4
13	An attractionâ€“repulsion transition of force on wedges induced by active particles. Soft Matter, 2018, 14, 5205-5212.	1.2	8
14	Coil-helix-globule transition for self-attractive semiflexible ring chains. Polymer, 2017, 110, 105-113.	1.8	1
15	Glassy dynamics of nanoparticles in semiflexible ring polymer nanocomposite melts. Scientific Reports, 2017, 7, 44325.	1.6	10
16	Size-dependent nanoparticle dynamics in semiflexible ring polymer nanocomposites. Polymer, 2017, 131, 243-251.	1.8	15
17	Rotational Diffusion of Soft Vesicles Filled by Chiral Active Particles. Scientific Reports, 2017, 7, 15006.	1.6	14
18	Ordered quasi-two-dimensional structure of nanoparticles in semiflexible ring polymer brushes under compression. Frontiers of Physics, 2017, 12, 1.	2.4	2

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19	Effective transport of passive particles induced by chiral-active particles in microchannel [*]. Chinese Physics B, 2017, 26, 080702.	0.7	1
20	Selective adsorption behavior of polymer at the polymer-nanoparticle interface. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 1829-1837.	2.4	7
21	Dynamics of attractive vesicles in shear flow. Chinese Journal of Polymer Science (English Edition), 2016, 34, 623-636.	2.0	5
22	Helix-like structure formation of a semi-flexible chain confined in a cylinder channel. Chinese Physics B, 2016, 25, 093601.	0.7	1
23	Aggregationâ€“Dispersion Transition for Nanoparticles in Semiflexible Ring Polymer Nanocomposite Melts. Journal of Physical Chemistry B, 2016, 120, 11574-11581.	1.2	12
24	Compression-driven migration of nanoparticles in semiflexible polymer brushes. Polymer, 2016, 83, 67-76.	1.8	7
25	Entropic Interactions in Semiflexible Polymer Nanocomposite Melts. Journal of Physical Chemistry B, 2016, 120, 572-582.	1.2	19
26	Dynamics of polymer-grafted vesicles in shear flow. Materials Today Communications, 2015, 3, 130-136.	0.9	1
27	Ordered structures of small numbers of nanorods induced by semiflexible star polymers. Journal of Chemical Physics, 2014, 141, 104906.	1.2	0
28	The adsorption-desorption transition of double-stranded DNA interacting with an oppositely charged dendrimer induced by multivalent anions. Journal of Chemical Physics, 2014, 140, 204912.	1.2	4
29	Selfâ€assembly of nanorod/nanoparticle mixtures in polymer brushes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 299-309.	2.4	6
30	Binding to semiflexible polymers: a novel method to control the structures of small numbers of building blocks. Soft Matter, 2014, 10, 7661-7668.	1.2	7
31	Wrapping/unwrapping transition of double-stranded DNA in DNAâ€“nanosphere complexes induced by multivalent anions. Soft Matter, 2014, 10, 4875-4884.	1.2	4
32	Phase behaviors of diblock copolymer/nanorod composites under oscillatory shear flow. Journal of Applied Polymer Science, 2013, 127, 4470-4482.	1.3	5
33	Ordered structures of diblock nanorods induced by diblock copolymers. Journal of Chemical Physics, 2013, 139, 104901.	1.2	10
34	Orientation transition of nanorods induced by polymer brushes. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 392-402.	2.4	5
35	Phase separation and crystallization of binary nanoparticles induced by polymer brushes. Soft Matter, 2013, 9, 1789-1797.	1.2	9
36	Self-assembly of cyclic rod-coil diblock copolymers. Journal of Chemical Physics, 2013, 138, 094907.	1.2	11

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37	Self-assembly of binary nanoparticles on soft elastic shells. Journal of Chemical Physics, 2013, 138, 214901.	1.2	2
38	Aggregation behavior of two separate polymers confined between two membranes. Soft Matter, 2012, 8, 1901.	1.2	1
39	Self-assembly of nanorods on soft elastic shells. Soft Matter, 2012, 8, 6706.	1.2	6
40	Ordered regular pentagons for semiflexible polymers on soft elastic shells. Soft Matter, 2012, 8, 2152.	1.2	17
41	Collapseâ€expansion transition of elastic shell induced by grafted polymer chains. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1480-1488.	2.4	2
42	Magneticâ€induced coilâ€globule transition for polyelectrolytes. Journal of Applied Polymer Science, 2012, 126, 1754-1762.	1.3	3
43	Conformations and migration behaviors of confined semiflexible polymers under poiseuille flow. Polymer, 2012, 53, 873-880.	1.8	11
44	Local coilâ€“helix transition of semiflexible polymers confined in spheres. Soft Matter, 2011, 7, 6836.	1.2	30
45	Microphase transitions of block copolymer/nanorod composites under shear flow. Soft Matter, 2011, 7, 1147-1160.	1.2	31
46	Helical Conformations of Semiflexible Polymers Confined between Two Concentric Cylinders. Journal of Physical Chemistry B, 2011, 115, 14333-14340.	1.2	9
47	Microdomain morphology of cylinder-forming diblock copolymers under spherical shell confinement. Chinese Journal of Polymer Science (English Edition), 2011, 29, 684-691.	2.0	9
48	The dynamic behaviors of diblock copolymer/nanorod mixtures under equilibrium and nonequilibrium conditions. Polymer, 2011, 52, 2711-2721.	1.8	17
49	Surface-field-induced microstructures of asymmetric diblock copolymer nanoparticles. Polymer Journal, 2011, 43, 606-612.	1.3	4
50	Steered molecular dynamics simulation of the detaching process of two parallel surfaces glued together by a single polyethylene chain. Journal of Applied Polymer Science, 2010, 115, 460-468.	1.3	4
51	Translocation of compact polymer chains through a nanopore. Polymer, 2010, 51, 2795-2801.	1.8	9
52	Mono- or bidisperse nanorods mixtures in diblock copolymers. Polymer, 2010, 51, 3303-3314.	1.8	38
53	Surface-induced phase transitions in dense nanoparticle arrays of lamella-forming diblock copolymers. Polymer, 2010, 51, 4994-5001.	1.8	11
54	Magnetic particleâ€loaded polymer brushes induced by external magnetic field: A Monte Carlo simulation. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1873-1881.	2.4	10

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55	Translocation of Î±-helix chains through a nanopore. Journal of Chemical Physics, 2010, 133, 154903.	1.2	15
56	Solvent-Induced Self-Assembly of Polymer-Tethered Nanorods. Journal of Physical Chemistry B, 2010, 114, 7189-7200.	1.2	45
57	Effect of nanorods on the mesophase structure of diblock copolymers. Journal of Chemical Physics, 2009, 130, 144907.	1.2	32
58	Cooperative surface-induced self-assembly of symmetric diblock copolymers confined films with embedded nanorods. Polymer, 2009, 50, 721-727.	1.8	10
59	Microdomain morphology of lamellaâ€forming diblock copolymer confined in a thin film. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 1-10.	2.4	8
60	The phase behaviors of cylindrical diblock copolymers and rigid nanorods' mixtures. Polymer, 2009, 50, 3403-3410.	1.8	31
61	Microstructures of lamella-forming diblock copolymer melts under nanorod-array confinements. Polymer, 2009, 50, 4964-4972.	1.8	8
62	Surface-induced morphologies of lamella-forming diblock copolymers confined in nanorod arrays. Journal of Chemical Physics, 2009, 130, 014902.	1.2	29
63	EFFECT OF NANOPARTICLES ON MORPHOLOGY OF DIBLOCK COPOLYMER FILMS. Acta Polymerica Sinica, 2009, 009, 530-534.	0.0	0
64	Phase behavior of a single polyethylene chain confined between two adsorption walls. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 370-387.	2.4	2
65	The Effects of Nanoparticles on the Lamellar Phase Separation of Diblock Copolymers. Journal of Physical Chemistry B, 2008, 112, 4194-4203.	1.2	44
66	The phase behavior of polyethylene ring chains. Journal of Chemical Physics, 2008, 129, 044905.	1.2	12
67	A steered molecular dynamics study on peptide sequence prediction from force-extension profiles. Polymer, 2007, 48, 3013-3020.	1.8	8
68	Free energy barrier for compact chains escaping from a small sphere. Polymer, 2007, 48, 3593-3600.	1.8	8
69	The phase behaviors of adsorbed polymethylene chains. Polymer, 2007, 48, 7419-7430.	1.8	5
70	Steered molecular dynamics simulation of elastic behavior of adsorbed single polyethylene chains. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 2322-2332.	2.4	14
71	Conformational properties and dynamics of protein-like chains confined in an infinite cylinder. European Polymer Journal, 2006, 42, 573-579.	2.6	8
72	Elastic behavior of single polymer chains adsorbed on rough surfaces. European Polymer Journal, 2006, 42, 3212-3220.	2.6	2

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73	Elastic behavior of compact polymer chain transporting through an infinite adsorption channel. Polymer, 2006, 47, 1732-1740.	1.8	11
74	Direct prediction of HP sequences of compact polymer chains from elastic force. Polymer, 2006, 47, 735-741.	1.8	11
75	Translocation of a proteinlike chain through a finite channel. Journal of Chemical Physics, 2006, 125, 034702.	1.2	11
76	Conformations and dynamics of adsorbed protein-like chains. Polymer, 2005, 46, 5714-5722.	1.8	10
77	Elastic behavior of uniform star polymer chains. European Polymer Journal, 2005, 41, 1596-1604.	2.6	3
78	Elastic behavior of short compact chains confined in double parallel boundaries. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 260, 137-144.	2.3	3
79	Folding rate prediction using n-order contact distance for proteins with two- and three-state folding kinetics. Biophysical Chemistry, 2005, 113, 9-16.	1.5	19
80	Elastic behavior of adsorbed single compact chains. Polymer, 2005, 46, 6208-6215.	1.8	2
81	Elastic behavior of ring polymer chains. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 223-232.	2.4	11
82	Elastic behavior of adsorbed polymer chains. Journal of Chemical Physics, 2004, 121, 11481.	1.2	13
83	Elastic behavior of short compact polymers. Journal of Chemical Physics, 2004, 120, 5469-5475.	1.2	27
84	Effects of temperature on elastic behavior of short compact polymers. Polymer, 2004, 45, 3547-3554.	1.8	10
85	Effect of secondary structure on the conformations and folding behaviors of protein-like chains. Polymer, 2004, 45, 7759-7766.	1.8	10
86	Analysis of the amino acid effect on protein folding by atom pair contacts. Polymer, 2004, 45, 609-621.	1.8	5
87	Analysis of structural statistical properties of proteases and nonproteases. Polymer, 2004, 45, 1045-1053.	1.8	2
88	Conformational properties and elastic behavior of protein-like lattice polymers. Polymer, 2004, 45, 6735-6744.	1.8	4
89	Folding rate prediction based on neural network model. Polymer, 2003, 44, 1751-1756.	1.8	37
90	Predicting protein structure from long-range contacts. Biophysical Chemistry, 2003, 105, 11-21.	1.5	5

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91	Effects of the elastic deformation on the average conformations of polymethylene chains. Polymer, 2002, 43, 1461-1466.	1.8	9
92	Effect of amino acid on forming residueâ€“residue contacts in proteins. Polymer, 2002, 43, 6037-6047.	1.8	24
93	A molecular study on the reinforcement of polymethylene elastomers. European Polymer Journal, 2002, 38, 2063-2068.	2.6	1
94	A Monte Carlo Study of the Elastic Behavior of Polymethylene Chains. Macromolecular Theory and Simulations, 2001, 10, 479-484.	0.6	14
95	Conformational behavior of short adsorbed polymer chains. European Polymer Journal, 1999, 35, 167-172.	2.6	7
96	Distribution Density Function P(S) of Self-Avoiding Walk Chains. Polymer Journal, 1996, 28, 548-549.	1.3	1