## Roland G Winkler

List of Publications by Year in descending order

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199 papers 9,670 citations

53 h-index 88 g-index

201 all docs

201 docs citations

times ranked

201

5106 citing authors

#	Article	IF	CITATIONS
1	Physics of microswimmersâ€"single particle motion and collective behavior: a review. Reports on Progress in Physics, 2015, 78, 056601.	20.1	1,029
2	The 2020 motile active matter roadmap. Journal of Physics Condensed Matter, 2020, 32, 193001.	1.8	242
3	Collapse of Polyelectrolyte Macromolecules by Counterion Condensation and Ion Pair Formation: A Molecular Dynamics Simulation Study. Physical Review Letters, 1998, 80, 3731-3734.	7.8	240
4	Cooperative motion of active Brownian spheres in three-dimensional dense suspensions. Europhysics Letters, 2014, 105, 48004.	2.0	201
5	Computational models for activeÂmatter. Nature Reviews Physics, 2020, 2, 181-199.	26.6	192
6	Semidilute Polymer Solutions at Equilibrium and under Shear Flow. Macromolecules, 2010, 43, 10107-10116.	4.8	154
7	Low-Reynolds-number hydrodynamics of complex fluids by multi-particle-collision dynamics. Europhysics Letters, 2004, 68, 106-112.	2.0	144
8	Dynamic structure factor of semiflexible macromolecules in dilute solution. Journal of Chemical Physics, 1996, 104, 6355-6368.	3.0	142
9	Dynamic regimes of fluids simulated by multiparticle-collision dynamics. Physical Review E, 2005, 72, 016701.	2.1	142
10	Models and equilibrium properties of stiff molecular chains. Journal of Chemical Physics, 1994, 101, 8119-8129.	3.0	141
11	Polyelectrolyte Theory. Advances in Polymer Science, 0, , 67-111.	0.8	140
12	Star Polymers in Shear Flow. Physical Review Letters, 2006, 96, 188302.	7.8	138
13	Imaging material properties by resonant tapping-force microscopy: A model investigation. Physical Review B, 1996, 54, 8908-8912.	3.2	136
14	Forces affecting the substrate in resonant tapping force microscopy. Nanotechnology, 1995, 6, 40-44.	2.6	134
15	Dynamics of polymers in a particle-based mesoscopic solvent. Journal of Chemical Physics, 2005, 123, 144905.	3.0	133
16	Virial pressure in systems of spherical active Brownian particles. Soft Matter, 2015, 11, 6680-6691.	2.7	123
17	Active turbulence in a gas of self-assembled spinners. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 12870-12875.	7.1	118
18	Cell-level canonical sampling by velocity scaling for multiparticle collision dynamics simulations. Journal of Computational Physics, 2010, 229, 168-177.	3.8	115

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19	Synchronization and bundling of anchored bacterial flagella. Soft Matter, 2012, 8, 4363.	2.7	111
20	Confined active Brownian particles: theoretical description of propulsion-induced accumulation. New Journal of Physics, 2018, 20, 015001.	2.9	111
21	Comparison of Ring and Linear Polyethylene from Molecular Dynamics Simulations. Macromolecules, 2006, 39, 3975-3977.	4.8	108
22	Semiflexible Polymers in Shear Flow. Physical Review Letters, 2006, 97, 128301.	7.8	107
23	Clustering of microswimmers: interplay of shape and hydrodynamics. Soft Matter, 2018, 14, 8590-8603.	2.7	105
24	Deformation of semiflexible chains. Journal of Chemical Physics, 2003, 118, 2919.	3.0	103
25	Dynamic properties of molecular chains with variable stiffness. Journal of Chemical Physics, 1995, 102, 7750-7757.	3.0	99
26	Diffusion and Segmental Dynamics of Double-Stranded DNA. Physical Review Letters, 2006, 97, 258101.	7.8	97
27	Chain Dynamics of Ring and Linear Polyethylene Melts from Molecular Dynamics Simulations. Macromolecules, 2011, 44, 2311-2315.	4.8	96
28	Conformational Properties of Active Semiflexible Polymers. Polymers, 2016, 8, 304.	4.5	95
29	Modelling the mechanics and hydrodynamics of swimming E. coli. Soft Matter, 2015, 11, 7867-7876.	2.7	94
30	Time-resolved structural evolution during the collapse of responsive hydrogels: The microgel-to-particle transition. Science Advances, 2018, 4, eaao7086.	10.3	90
31	The physics of active polymers and filaments. Journal of Chemical Physics, 2020, 153, 040901.	3.0	86
32	Active Polymers â€" Emergent Conformational and Dynamical Properties: A Brief Review. Journal of the Physical Society of Japan, 2017, 86, 101014.	1.6	79
33	Hydrodynamic screening of star polymers in shear flow. European Physical Journal E, 2007, 23, 349-354.	1.6	77
34	Polyelectrolyte electrophoresis: Field effects and hydrodynamic interactions. Europhysics Letters, 2008, 83, 38004.	2.0	77
35	Physical Sensing of Surface Properties by Microswimmers – Directing Bacterial Motion via Wall Slip. Scientific Reports, 2015, 5, 9586.	3.3	77
36	Conformational and rheological properties of semiflexible polymers in shear flow. Journal of Chemical Physics, 2010, 133, 164905.	3.0	75

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37	Internal dynamics of semiflexible polymers with active noise. Journal of Chemical Physics, 2017, 146, 154903.	3.0	74
38	Molecular dynamics simulation study of adsorption of polymer chains with variable degree of rigidity. I. Static properties. Journal of Chemical Physics, 1996, 104, 4806-4813.	3.0	73
39	Complex formation in systems of oppositely charged polyelectrolytes: A molecular dynamics simulation study. Physical Review E, 2002, 66, 021802.	2.1	72
40	Modeling a spheroidal microswimmer and cooperative swimming in a narrow slit. Soft Matter, 2016, 12, 7372-7385.	2.7	72
41	Attractive Colloidal Rods in Shear Flow. Physical Review Letters, 2008, 101, 168302.	7.8	71
42	Nanopattern of Diblock Copolymers Selectively Adsorbed on a Plane Surface. Langmuir, 1999, 15, 7290-7298.	3.5	69
43	Hydrodynamic correlations in multiparticle collision dynamics fluids. Physical Review E, 2012, 86, 056711.	2.1	69
44	Dynamical and rheological properties of soft colloid suspensions. Current Opinion in Colloid and Interface Science, 2014, 19, 594-610.	7.4	68
45	Rod-like colloids and polymers in shear flow: a multi-particle-collision dynamics study. Journal of Physics Condensed Matter, 2004, 16, S3941-S3954.	1.8	65
46	Direct observation of hydrodynamic instabilities in a driven non-uniform colloidal dispersion. Soft Matter, 2009, 5, 1340.	2.7	64
47	Migration of semiflexible polymers in microcapillary flow. Europhysics Letters, 2010, 91, 14001.	2.0	63
48	Synchronization, Slippage, and Unbundling of Driven Helical Flagella. PLoS ONE, 2013, 8, e70868.	2.5	61
49	Propagating interfaces in mixtures of active and passive Brownian particles. New Journal of Physics, 2016, 18, 123030.	2.9	61
50	Critical Adsorption of Polyelectrolytes onto Charged Spherical Colloids. Physical Review Letters, 2006, 96, 066103.	7.8	60
51	Intramolecular dynamics of linear macromolecules by fluorescence correlation spectroscopy. Physical Review E, 2006, 73, 041919.	2.1	59
52	Structure of Microgels with Debye–Hückel Interactions. Polymers, 2014, 6, 1602-1617.	4.5	59
53	Molecular dynamics simulation study of the adsorption of chain alkanes from solution onto graphite. Journal of Chemical Physics, 1993, 99, 5528-5534.	3.0	57
54	Mesoscale simulations of polymer dynamics in microchannel flows. Europhysics Letters, 2008, 83, 34007.	2.0	55

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55	Dramatic influence of patchy attractions on short-time protein diffusion under crowded conditions. Science Advances, 2016, 2, e1601432.	10.3	55
56	Contact Angle Microscopy on a Carbosilane Dendrimer with Hydroxyl End Groups:  Method for Mesoscopic Characterization of the Surface Structure. Langmuir, 1997, 13, 4172-4181.	3.5	53
57	Orderâ^'Disorder Transition in Surface-Induced Nanopattern of Diblock Copolymer Films. Macromolecules, 2000, 33, 150-157.	4.8	53
58	Stochastic dynamics simulations of polymethylene melts confined between solid surfaces. Journal of Chemical Physics, 1993, 98, 729-736.	3.0	52
59	Tapping Scanning Force Microscopy in AirTheory and Experiment. Langmuir, 1997, 13, 4699-4703.	3.5	52
60	Surface Micellar Nanopattern Formation of Adsorbed Diblock Copolymer Systems. Macromolecules, 1999, 32, 3495-3501.	4.8	51
61	Reconfigurable structure and tunable transport in synchronized active spinner materials. Science Advances, 2020, 6, eaaz8535.	10.3	51
62	Influence of stiffness on the dynamics of macromolecules in a melt. Journal of Chemical Physics, 1997, 106, 2469-2476.	3.0	50
63	Stress tensors of multiparticle collision dynamics fluids. Journal of Chemical Physics, 2009, 130, 074907.	3.0	50
64	Complexation of semiflexible chains with oppositely charged cylinder. Journal of Chemical Physics, 2004, 120, 9394-9400.	3.0	49
65	Hydration of beta-cyclodextrin: a molecular dynamics simulation study. Journal of Computer-Aided Molecular Design, 2000, 14, 659-667.	2.9	48
66	Enhanced Rotational Motion of Spherical Squirmer in Polymer Solutions. Physical Review Letters, 2020, 124, 068001.	7.8	47
67	Polyelectrolyte adsorption onto oppositely charged interfaces: unified approach for plane, cylinder, and sphere. Physical Chemistry Chemical Physics, 2011, 13, 11686.	2.8	46
68	Multiparticle collision dynamics: GPU accelerated particle-based mesoscale hydrodynamic simulations. Computer Physics Communications, 2014, 185, 495-503.	7.5	46
69	Tumbling of polymers in semidilute solution under shear flow. Europhysics Letters, 2011, 93, 54004.	2.0	45
70	Flow-Induced Helical Coiling of Semiflexible Polymers in Structured Microchannels. Physical Review Letters, 2012, 109, 178101.	7.8	44
71	Strong and weak adsorptions of polyelectrolyte chains onto oppositely charged spheres. Journal of Chemical Physics, 2006, 125, 064904.	3.0	43
72	Polyelectrolyte Adsorption onto Oppositely Charged Interfaces: Image-Charge Repulsion and Surface Curvature. Journal of Physical Chemistry B, 2012, 116, 9838-9845.	2.6	43

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73	Universal conformational properties of polymers in ionic nanogels. Scientific Reports, 2016, 6, 19836.	3.3	42
74	Hydrodynamics of discrete-particle models of spherical colloids: A multiparticle collision dynamics simulation study. Physical Review E, 2014, 90, 033314.	2.1	41
75	Thermostat for nonequilibrium multiparticle-collision-dynamics simulations. Physical Review E, 2015, 91, 013310.	2.1	41
76	Extended-phase-space isothermal molecular dynamics: Canonical harmonic oscillator. Physical Review A, 1992, 45, 2250-2255.	2.5	39
77	Stochastic Dynamics Simulations of n-Alkane Melts Confined between Solid Surfaces: Influence of Surface Properties and Comparison with Scheutjens-Fleer Theory. Macromolecules, 1995, 28, 165-173.	4.8	39
78	Semidilute solutions of ultra-soft colloids under shear flow. Soft Matter, 2012, 8, 4109.	2.7	38
79	Polymer Conformations in Ionic Microgels in the Presence of Salt: Theoretical and Mesoscale Simulation Results. Polymers, 2017, 9, 15.	4.5	38
80	Active Brownian filaments with hydrodynamic interactions: conformations and dynamics. Soft Matter, 2019, 15, 3957-3969.	2.7	38
81	Adsorption of Weakly Charged Polyelectrolytes onto Oppositely Charged Spherical Colloidsâ€. Journal of Physical Chemistry B, 2007, 111, 8486-8493.	2.6	37
82	Mesoscale hydrodynamic simulation of short polyelectrolytes in electric fields. Journal of Chemical Physics, 2009, 131, 234905.	3.0	37
83	Effect of hydrodynamic correlations on the dynamics of polymers in dilute solution. Journal of Chemical Physics, 2013, 138, 144902.	3.0	37
84	Finite size distribution and partition functions of Gaussian chains: maximum entropy approach. Macromolecules, 1992, 25, 6891-6896.	4.8	36
85	Dynamical and Rheological Properties of Ultrasoft Colloids under Shear Flow. Macromolecules, 2013, 46, 8026-8036.	4.8	36
86	Distribution functions and dynamical properties of stiff macromolecules. Macromolecular Theory and Simulations, 1997, 6, 1007-1035.	1.4	35
87	On the dynamics of polymer melts: Contribution of Rouse and bending modes. Europhysics Letters, 1999, 45, 488-494.	2.0	33
88	Integral equation theory approach to rodlike polyelectrolytes: Counterion condensation. Journal of Chemical Physics, 2001, 114, 10181-10188.	3.0	33
89	Simple Model for Overcharging of a Sphere by a Wrapped Oppositely Charged Asymmetrically Neutralized Polyelectrolyte:Â Possible Effects of Helical Charge Distribution. Journal of Physical Chemistry B, 2005, 109, 2962-2969.	2.6	33
90	Active Brownian ring polymers. Journal of Chemical Physics, 2019, 150, 064913.	3.0	33

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91	Partition function and force extension relation for a generalized freely jointed chain. Macromolecules, 1993, 26, 6085-6091.	4.8	32
92	Diffusion and segmental dynamics of rodlike molecules by fluorescence correlation spectroscopy. Journal of Chemical Physics, 2007, 127, 054904.	3.0	32
93	Equivalence of statistical ensembles in stretching single flexible polymers. Soft Matter, 2010, 6, 6183.	2.7	32
94	Computer simulations of nâ€alkane melts. Journal of Chemical Physics, 1991, 95, 4709-4714.	3.0	31
95	Liquid benzene confined between graphite surfaces. A constant pressure molecular dynamics study. Journal of Chemical Physics, 1993, 99, 5405-5417.	3.0	31
96	Novel molecular dynamics simulations at constant pressure. Molecular Physics, 1992, 75, 669-688.	1.7	30
97	Hydrodynamic correlations and diffusion coefficient of star polymers in solution. Journal of Chemical Physics, 2014, 141, 084901.	3.0	30
98	Solvent Induced Inversion of Core–Shell Microgels. ACS Macro Letters, 2017, 6, 721-725.	4.8	30
99	Local stress and pressure in an inhomogeneous system of spherical active Brownian particles. Scientific Reports, 2019, 9, 6608.	3.3	30
100	Effects of thermal fluctuations and fluid compressibility on hydrodynamic synchronization of microrotors at finite oscillatory Reynolds number: a multiparticle collision dynamics simulation study. Soft Matter, 2014, 10, 5894-5904.	2.7	29
101	Nonequilibrium Forces between Dragged Ultrasoft Colloids. Physical Review Letters, 2011, 107, 158301.	7.8	28
102	Multi-Particle Collision Dynamics: A Particle-Based Mesoscale Simulation Approach to the Hydrodynamics of Complex Fluids. Advances in Polymer Science, 2008, , 1.	0.8	28
103	Synchronization of rigid microrotors by time-dependent hydrodynamic interactions. Physical Review E, 2013, 88, 023012.	2.1	27
104	Emergence of active turbulence in microswimmer suspensions due to active hydrodynamic stress and volume exclusion. Communications Physics, 2022, 5, .	5.3	27
105	Analytical Calculation of the Relaxation Dynamics of Partially Stretched Flexible Chain Molecules: Necessity of a Wormlike Chain Description. Physical Review Letters, 1999, 82, 1843-1846.	7.8	26
106	Hydrodynamic mechanisms of spinodal decomposition in confined colloid-polymer mixtures: A multiparticle collision dynamics study. Journal of Chemical Physics, 2013, 138, 054901.	3.0	26
107	Clustering and dynamics of particles in dispersions with competing interactions: theory and simulation. Soft Matter, 2018, 14, 92-103.	2.7	26
108	Equilibrium properties of polyampholytes in electric fields. Journal of Chemical Physics, 1997, 106, 2841-2849.	3.0	24

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109	Multi-particle collision dynamics simulations of sedimenting colloidal dispersions in confinement. Faraday Discussions, 2010, 144, 245-252.	3.2	24
110	Internal dynamics of microgels: A mesoscale hydrodynamic simulation study. Journal of Chemical Physics, 2016, 145, 244902.	3.0	24
111	Bacterial swarmer cells in confinement: a mesoscale hydrodynamic simulation study. Soft Matter, 2016, 12, 8316-8326.	2.7	24
112	Comment on "Chain Motion in an Unentangled Polyethylene Melt: A Critical Test of the Rouse Model by Molecular Dynamics Simulations and Neutron Spin Echo Spectroscopy― Physical Review Letters, 1999, 82, 2408-2408.	7.8	23
113	Conformational State Distributions and Catalytically Relevant Dynamics ofÂa Hinge-Bending Enzyme Studied by Single-Molecule FRET and a Coarse-Grained Simulation. Biophysical Journal, 2014, 107, 1913-1923.	0.5	23
114	Self-Organized Structures of Attractive End-Functionalized Semiflexible Polymer Suspensions. Macromolecules, 2014, 47, 4118-4125.	4.8	23
115	Dynamic Structure Factor of Core–Shell Microgels: A Neutron Scattering and Mesoscale Hydrodynamic Simulation Study. Macromolecules, 2016, 49, 3608-3618.	4.8	23
116	From local to hydrodynamic friction in Brownian motion: A multiparticle collision dynamics simulation study. Physical Review E, 2016, 93, 032604.	2.1	23
117	Low Reynolds number hydrodynamics and mesoscale simulations. European Physical Journal: Special Topics, 2016, 225, 2079-2097.	2.6	23
118	Dynamics of flexible active Brownian dumbbells in the absence and the presence of shear flow. Soft Matter, 2016, 12, 3737-3749.	2.7	23
119	Strong and Weak Polyelectrolyte Adsorption onto Oppositely Charged Curved Surfaces. Advances in Polymer Science, 2013, , 1-56.	0.8	22
120	Active Brownian Filamentous Polymers under Shear Flow. Polymers, 2018, 10, 837.	4.5	22
121	Hydrodynamics in adaptive resolution particle simulations: Multiparticle collision dynamics. Journal of Computational Physics, 2016, 314, 14-34.	3.8	21
122	Influence of salt on the structure of polyelectrolyte solutions: An integral equation theory approach. Journal of Chemical Physics, 2003, 119, 2406-2413.	3.0	20
123	Conformations, hydrodynamic interactions, and instabilities of sedimenting semiflexible filaments. Soft Matter, 2015, 11, 7337-7344.	2.7	20
124	Influence of Polydispersity on the Dynamic Structure Factor of Macromolecules in Dilute Solution. Macromolecules, 1999, 32, 5956-5960.	4.8	19
125	Self-consistent integral equation theory for solutions of finite extensible semiflexible polyelectrolyte chains. Journal of Chemical Physics, 2003, 118, 6624-6633.	3.0	19
126	Universal properties of complexes formed by two oppositely charged flexible polyelectrolytes. New Journal of Physics, 2004, 6, 11-11.	2.9	19

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127	Backtracking of Colloids: A Multiparticle Collision Dynamics Simulation Study. Journal of Physical Chemistry B, 2011, 115, 14263-14268.	2.6	19
128	Mesoscale hydrodynamic modeling of a colloid in shear-thinning viscoelastic fluids under shear flow. Journal of Chemical Physics, 2011, 135, 134116.	3.0	19
129	Non-equilibrium relaxation and tumbling times of polymers in semidilute solution. Journal of Physics Condensed Matter, 2012, 24, 284131.	1.8	19
130	Multiparticle collision dynamics simulations of viscoelastic fluids: Shear-thinning Gaussian dumbbells. Journal of Chemical Physics, 2013, 138, 104903.	3.0	19
131	Structure and Dynamics of a Compact State of a Multidomain Protein, the Mercuric Ion Reductase. Biophysical Journal, 2014, 107, 393-400.	0.5	19
132	Hydrodynamics of polymers in an active bath. Physical Review E, 2020, 101, 052612.	2.1	19
133	Analytical model for the microscopic nonaffine deformation of polymer networks. Journal of Chemical Physics, 1994, 101, 2532-2538.	3.0	18
134	Molecular dynamics simulations ofn-Alkane melts confined between solid surfaces. International Journal of Quantum Chemistry, 1994, 52, 437-456.	2.0	18
135	Conformational and dynamical properties of ultra-soft colloids in semi-dilute solutions under shear flow. Journal of Physics Condensed Matter, 2012, 24, 464103.	1.8	18
136	Steady state sedimentation of ultrasoft colloids. Journal of Chemical Physics, 2018, 148, 084901.	3.0	18
137	Semiflexible polymer conformation, distribution and migration in microcapillary flows. Journal of Physics Condensed Matter, 2011, 23, 184117.	1.8	17
138	Effect of angular momentum conservation on hydrodynamic simulations of colloids. Physical Review E, 2015, 92, 013301.	2.1	17
139	Bulk viscosity of multiparticle collision dynamics fluids. Physical Review E, 2015, 91, 033309.	2.1	17
140	Microswimmers – From Single Particle Motion to Collective Behavior. European Physical Journal: Special Topics, 2016, 225, 2061-2064.	2.6	17
141	Comparative molecular dynamics simulation study of the benzene–graphite and the benzeneâ€1,12â€dodecanediol–graphite interface. Journal of Chemical Physics, 1994, 100, 3930-3939.	3.0	16
142	Simulation of complex fluids by multi-particle-collision dynamics. Computer Physics Communications, 2005, 169, 326-330.	7.5	16
143	Hydrodynamic interactions in squirmer dumbbells: active stress-induced alignment and locomotion. Soft Matter, 2020, 16, 10676-10687.	2.7	16
144	Rheotaxis of spheroidal squirmers in microchannel flow: Interplay of shape, hydrodynamics, active stress, and thermal fluctuations. Physical Review Research, 2020, 2, .	3.6	16

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145	Molecular dynamics simulation study of the dynamics of fluids in thin films. Journal of Chemical Physics, 1996, 104, 8103-8111.	3.0	15
146	Weak Shape Anisotropy Leads to a Nonmonotonic Contribution to Crowding, Impacting Protein Dynamics under Physiologically Relevant Conditions. Journal of Physical Chemistry B, 2018, 122, 12396-12402.	2.6	15
147	Wall entrapment of peritrichous bacteria: a mesoscale hydrodynamics simulation study. Soft Matter, 2020, 16, 4866-4875.	2.7	15
148	Time reversible and phaseâ€space conserving molecular dynamics at constant temperature. Journal of Chemical Physics, 1995, 102, 9018-9025.	3.0	14
149	Virial pressure of periodic systems with long range forces. Journal of Chemical Physics, 2002, 117, 2449-2450.	3.0	14
150	Reptation of polymer chains: A combined Monte Carlo and molecular-dynamics study. Physical Review B, 1993, 48, 581-584.	3.2	13
151	Remarks on the Interpretation of Dynamic Light Scattering from Gellan in Dilute Solution. Macromolecules, 1997, 30, 6974-6976.	4.8	13
152	Mesoscale hydrodynamics simulations of attractive rod-like colloids in shear flow. Journal of Physics Condensed Matter, 2008, 20, 404209.	1.8	13
153	Self-organization in suspensions of end-functionalized semiflexible polymers under shear flow. Journal of Chemical Physics, 2015, 143, 243117.	3.0	12
154	Dynamical Calculation of Entropy Elastic Forces in Molecular Chains. Europhysics Letters, 1989, 8, 493-497.	2.0	11
155	Topologically induced glass transition in dense polymer systems. Journal of Chemical Physics, 2000, 112, 3051-3062.	3.0	11
156	Conformational and dynamical properties of semiflexible polymers in the presence of active noise. AIP Conference Proceedings, 2017, , .	0.4	11
157	Active bath-induced localization and collapse of passive semiflexible polymers. Journal of Chemical Physics, 2021, 155, 044902.	3.0	11
158	Dynamics of active polar ring polymers. Physical Review E, 2022, 105, .	2.1	11
159	Dynamics of a polymer chain in an elongational flow. Physical Review E, 2000, 61, 2840-2847.	2.1	10
160	Semiflexible polymers under external fields confined to two dimensions. Journal of Chemical Physics, 2012, 137, 244909.	3.0	10
161	Scaffold Structures by Telechelic Rodlike Polymers: Nonequilibrium Structural and Rheological Properties under Shear Flow. Macromolecules, 2014, 47, 6946-6954.	4.8	10
162	Model calculation of the temperature dependence of triplet exciton E.S.R. line shapes for local exciton phonon interaction. Molecular Physics, 1987, 60, 1283-1313.	1.7	9

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163	Equilibrium and dynamical properties of gaussian stiff chain molecules. Macromolecular Symposia, 1994, 81, 91-99.	0.7	9
164	Microscopic Nonaffine Deformation of Polydisperse Polymer Networks. Macromolecules, 1995, 28, 5906-5909.	4.8	9
165	Non-Equilibrium Properties of Semidilute Polymer Solutions under Shear Flow. Journal of Physics: Conference Series, 2012, 392, 012003.	0.4	9
166	Hydrodynamics of binary-fluid mixtures â€"An augmented Multiparticle Collison Dynamics approach. Europhysics Letters, 2018, 121, 24003.	2.0	9
167	Random Copolymers with Short-Range Interaction in the Equilibrium State: Mean Field Approximation and Numerical Studies. Physical Review Letters, 1994, 73, 1602-1604.	7.8	8
168	Initial decay rate of the dynamic structure factor of polymer molecules in solution. Journal of Chemical Physics, 1998, 109, 5160-5161.	3.0	8
169	Hydrodynamic correlations in shear flow: Multiparticle-collision-dynamics simulation study. Physical Review E, 2015, 92, 053002.	2.1	8
170	Are the continuum and the lattice representation of freely jointed chains equivalent?. Macromolecular Theory and Simulations, 1994, 3, 575-583.	1.4	7
171	Mesoscale hydrodynamics simulations of particle suspensions under shear flow: From hard to ultrasoft colloids. European Physical Journal: Special Topics, 2013, 222, 2773-2786.	2.6	7
172	Role of fluid-density correlations in hydrodynamics: a multiparticle collision dynamics simulation study. Soft Matter, 2012, 8, 9886.	2.7	6
173	DNA Self-Assembly Mediated by Programmable Soft-Patchy Interactions. ACS Nano, 2020, 14, 13524-13535.	14.6	6
174	Path integral description of semiflexible active Brownian polymers. Journal of Chemical Physics, 2022, 156, 064105.	3.0	6
175	Deterministic chaos in the dynamics of a freely jointed molecular chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1989, 141, 264-268.	2.1	5
176	Spatial correlations of hydrodynamic fluctuations in simple fluids under shear flow: A mesoscale simulation study. Physical Review E, 2017, 96, 062617.	2.1	5
177	Tethered Semiflexible Polymer under Large Amplitude Oscillatory Shear. Polymers, 2019, 11, 737.	4.5	5
178	Chaotic dynamics and entropy elastic forces of chain molecules. Makromolekulare Chemie Macromolecular Symposia, 1989, 30, 215-221.	0.6	4
179	Hydrodynamics in Motile Active Matter. , 2018, , 1-21.		4
180	Wall-anchored semiflexible polymer under large amplitude oscillatory shear flow. Journal of Chemical Physics, 2021, 154, 224901.	3.0	4

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181	Temperature Dependence of Resonance Splittings in Molecular Pairs. Comparison of Optical Experiments and Theoretical Results for the Phenazine Triplet State. Physica Status Solidi (B): Basic Research, 1986, 137, 137-147.	1.5	3
182	Functionality dependence for molecular nonaffine deformation of polymer networks. Polymer, 1997, 38, 4049-4052.	3.8	3
183	Structure of polyelectrolyte solutions: influence of salt and chain flexibility. Macromolecular Symposia, 2004, 211, 55-70.	0.7	3
184	Confinement-induced screening of hydrodynamic interactions and spinodal decomposition: Multiscale simulations of colloid-polymer mixtures. Europhysics Letters, 2012, 100, 46003.	2.0	3
185	Hydrodynamics of immiscible binary fluids with viscosity contrast: a multiparticle collision dynamics approach. Soft Matter, 2021, 17, 7978-7990.	2.7	3
186	Flagellar arrangements in elongated peritrichous bacteria: bundle formation and swimming properties. European Physical Journal E, 2021, 44, 17.	1.6	3
187	Simulating wet active polymers by multiparticle collision dynamics. Physical Review E, 2022, 105, 015310.	2.1	3
188	Alignment and propulsion of squirmer pusher–puller dumbbells. Journal of Chemical Physics, 2022, 156, .	3.0	3
189	Hydrodynamic correlations of viscoelastic fluids by multiparticle collision dynamics simulations. Journal of Chemical Physics, 2019, 151, 194110.	3.0	2
190	Flow driven transitions of polyelectrolytes. Journal of Rheology, 2020, 64, 1121-1131.	2.6	2
191	Editorial: Motile active matter. European Physical Journal E, 2021, 44, 103.	1.6	2
192	Shape Change of Micelles Dragged with Constant Velocity as Addressed in Terms of Biolubrication Application. Acta Physica Polonica A, 2016, 129, 188-189.	0.5	2
193	Influence of microscopic nonâ€affinity and functionality on the deformation of polymeric networks. Macromolecular Symposia, 1994, 81, 129-137.	0.7	1
194	Hydrodynamics in Motile Active Matter. , 2020, , 1471-1491.		1
195	Temperature dependence of the triplet exciton ESR line shape in dimers. Journal of Luminescence, 1987, 38, 102-103.	3.1	0
196	Force-length relation for a short freely jointed chain: mass and volume dependence. Colloid and Polymer Science, 1991, 269, 1090-1098.	2.1	0
197	Constant pressure molecular dynamics: Instantaneous external stress tensor in systems with periodic boundary conditions. Makromolekulare Chemie Macromolecular Symposia, 1993, 65, 11-17.	0.6	O
198	Molecular dynamics simulation studies of a complex fluid â€solid interface ―the benzeneâ€alkaneâ€graphite system. Macromolecular Symposia, 1994, 81, 213-219.	0.7	0

#	Article	IF	CITATIONS
199	Molecular dynamics simulation study of the dynamics of fluids at solidâ€liquid interfaces. Macromolecular Symposia, 1996, 106, 353-366.	0.7	0