Kenneth S Schweizer

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#	Paper	IF	Citations
175	Vibrational dephasing and frequency shifts of polyatomic molecules in solution. <i>Journal of Chemical Physics</i> , 1982 , 76, 2296-2314	3.9	354
174	Theory of Phase Separation in Polymer Nanocomposites. <i>Macromolecules</i> , 2006 , 39, 5133-5142	5.5	255
173	Microscopic theory of the dynamics of polymeric liquids: General formulation of a modefhode-coupling approach. <i>Journal of Chemical Physics</i> , 1989 , 91, 5802-5821	3.9	251
172	Entropic barriers, activated hopping, and the glass transition in colloidal suspensions. <i>Journal of Chemical Physics</i> , 2003 , 119, 1181-1196	3.9	249
171	Contact Aggregation, Bridging, and Steric Stabilization in Dense PolymerParticle Mixtures. <i>Macromolecules</i> , 2005 , 38, 8858-8869	5.5	240
170	Integral Equation Theories of the Structure, Thermodynamics, and Phase Transitions of Polymer Fluids. <i>Advances in Chemical Physics</i> , 2007 , 1-142		200
169	Local structure of semiflexible polymer melts. <i>Macromolecules</i> , 1990 , 23, 3496-3505	5.5	171
168	Structure of colloid-polymer suspensions. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, R239-R269	1.8	162
167	Materials science. Diffusion of a polymer 'pancake'. <i>Nature</i> , 2000 , 406, 146	50.4	154
166	Structure, surface excess and effective interactions in polymer nanocomposite melts and concentrated solutions. <i>Journal of Chemical Physics</i> , 2004 , 121, 6986-97	3.9	148
165	Entropy driven phase transitions in colloidpolymer suspensions: Tests of depletion theories. Journal of Chemical Physics, 2002 , 116, 2201-2212	3.9	148
164	Molecular theories of polymer nanocomposites. <i>Current Opinion in Solid State and Materials Science</i> , 2010 , 14, 38-48	12	141
163	Big Effect of Small Nanoparticles: A Shift in Paradigm for Polymer Nanocomposites. <i>ACS Nano</i> , 2017 , 11, 752-759	16.7	140
162	Derivation of a microscopic theory of barriers and activated hopping transport in glassy liquids and suspensions. <i>Journal of Chemical Physics</i> , 2005 , 123, 244501	3.9	139
161	Strain softening, yielding, and shear thinning in glassy colloidal suspensions. <i>Physical Review E</i> , 2005 , 71, 021401	2.4	134
160	Nanoparticle diffusion in polymer nanocomposites. <i>Physical Review Letters</i> , 2014 , 112, 108301	7.4	130
159	Structure and thermodynamics of colloid-polymer mixtures: A macromolecular approach. <i>Europhysics Letters</i> , 2000 , 51, 621-627	1.6	125

158	Surface Diffusion of Poly(ethylene glycol). <i>Macromolecules</i> , 2002 , 35, 1776-1784	5.5	123
157	Elastically cooperative activated barrier hopping theory of relaxation in viscous fluids. II. Thermal liquids. <i>Journal of Chemical Physics</i> , 2014 , 140, 194507	3.9	118
156	Theory of nanoparticle diffusion in unentangled and entangled polymer melts. <i>Journal of Chemical Physics</i> , 2011 , 135, 224902	3.9	117
155	Chain conformations and bound-layer correlations in polymer nanocomposites. <i>Physical Review Letters</i> , 2007 , 98, 128302	7.4	115
154	Elastically cooperative activated barrier hopping theory of relaxation in viscous fluids. I. General formulation and application to hard sphere fluids. <i>Journal of Chemical Physics</i> , 2014 , 140, 194506	3.9	114
153	Microscopic theory of polymer-mediated interactions between spherical particles. <i>Journal of Chemical Physics</i> , 1998 , 109, 10464-10476	3.9	114
152	Activated Hopping, Barrier Fluctuations, and Heterogeneity in Glassy Suspensions and Liquids Journal of Physical Chemistry B, 2004 , 108, 19729-19741	3.4	109
151	Polymer reference interaction site model theory: New molecular closures for phase separating fluids and alloys. <i>Journal of Chemical Physics</i> , 1993 , 98, 9053-9079	3.9	108
150	Effects of polyethylene glycol on protein interactions. <i>Journal of Chemical Physics</i> , 2000 , 113, 9863-987	733.9	106
149	Viscoelasticity and rheology of depletion flocculated gels and fluids. <i>Journal of Chemical Physics</i> , 2003 , 119, 8747-8760	3.9	105
148	Microscopic theory of gelation and elasticity in polymer-particle suspensions. <i>Journal of Chemical Physics</i> , 2004 , 120, 7212-22	3.9	103
147	Depletion Interactions in the Protein Limit: Effects of Polymer Density Fluctuations. <i>Physical Review Letters</i> , 1999 , 83, 4554-4557	7.4	102
146	Theory of Yielding, Strain Softening, and Steady Plastic Flow in Polymer Glasses under Constant Strain Rate Deformation. <i>Macromolecules</i> , 2011 , 44, 3988-4000	5.5	96
145	Integral equation theory of polymer melts: intramolecular structure, local order, and the correlation hole. <i>Macromolecules</i> , 1988 , 21, 3070-3081	5.5	96
144	Theory of dynamic barriers, activated hopping, and the glass transition in polymer melts. <i>Journal of Chemical Physics</i> , 2004 , 121, 1984-2000	3.9	94
143	Unified Theory of Activated Relaxation in Liquids over 14 Decades in Time. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3648-3653	6.4	93
142	A comparison between integral equation theory and molecular dynamics simulations of dense, flexible polymer liquids. <i>Journal of Chemical Physics</i> , 1989 , 91, 1357-1364	3.9	90
141	Resolving the mystery of the chain friction mechanism in polymer liquids. <i>Physical Review Letters</i> , 2009 , 102, 248301	7.4	85

140	Reference interaction site model theory of polymeric liquids: Self-consistent formulation and nonideality effects in dense solutions and melts. <i>Journal of Chemical Physics</i> , 1992 , 96, 3211-3225	3.9	82
139	Microscopic Theory of the Long-Time Diffusivity and Intermediate-Time Anomalous Transport of a Nanoparticle in Polymer Melts. <i>Macromolecules</i> , 2015 , 48, 152-163	5.5	80
138	Activated hopping and dynamical fluctuation effects in hard sphere suspensions and fluids. <i>Journal of Chemical Physics</i> , 2006 , 125, 44509	3.9	8o
137	Solvation potentials for macromolecules. <i>Journal of Chemical Physics</i> , 1994 , 100, 6846-6856	3.9	79
136	Many body effects on the phase separation and structure of dense polymer-particle melts. <i>Journal of Chemical Physics</i> , 2008 , 128, 234901	3.9	78
135	Molecular Theories of Segmental Dynamics and Mechanical Response in Deeply Supercooled Polymer Melts and Glasses. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 277-300	19.7	77
134	Nonlinear Creep in a Polymer Glass. <i>Macromolecules</i> , 2008 , 41, 4969-4977	5.5	77
133	Collisions, caging, thermodynamics, and jamming in the barrier hopping theory of glassy hard sphere fluids. <i>Journal of Chemical Physics</i> , 2007 , 127, 164505	3.9	77
132	Stress-enhanced mobility and dynamic yielding in polymer glasses. <i>Europhysics Letters</i> , 2007 , 79, 26006	1.6	75
131	Liquid-state theory of the density dependent conformation of nonpolar linear polymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 6857-6872	3.9	75
130	Microstructure of dense colloidpolymer suspensions and gels. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 4751-4778	1.8	74
129	Dynamical Theory of Segmental Relaxation and Emergent Elasticity in Supercooled Polymer Melts. <i>Macromolecules</i> , 2015 , 48, 1901-1913	5.5	73
128	Concentration Fluctuations, Local Order, and the Collective Structure of Polymer Nanocomposites. <i>Macromolecules</i> , 2009 , 42, 8435-8442	5.5	73
127	Polymer-mode-coupling theory of the slow dynamics of entangled macromolecular fluids. <i>Macromolecular Theory and Simulations</i> , 1997 , 6, 1037-1117	1.5	73
126	Communication: Slow relaxation, spatial mobility gradients, and vitrification in confined films. Journal of Chemical Physics, 2014 , 141, 161103	3.9	70
125	Dynamical fluctuation effects in glassy colloidal suspensions. <i>Current Opinion in Colloid and Interface Science</i> , 2007 , 12, 297-306	7.6	70
124	Phase behavior and concentration fluctuations in suspensions of hard spheres and nearly ideal polymers. <i>Journal of Chemical Physics</i> , 2003 , 118, 3350-3361	3.9	68
123	Transport coefficients in glassy colloidal fluids. <i>Journal of Chemical Physics</i> , 2003 , 119, 1197-1203	3.9	66

122	Integral equation theory of block copolymer liquids. I. General formalism and analytic predictions for symmetric copolymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 7767-7783	3.9	66	
121	Surface segregation in polymer blends due to stiffness disparity. <i>Journal of Chemical Physics</i> , 1994 , 100, 4691-4694	3.9	63	
120	Microscopic Constitutive Equation Theory for the Nonlinear Mechanical Response of Polymer Glasses. <i>Macromolecules</i> , 2008 , 41, 5908-5918	5.5	62	
119	Large-amplitude jumps and non-Gaussian dynamics in highly concentrated hard sphere fluids. Physical Review E, 2008 , 77, 051504	2.4	61	
118	Equation of state of polymer melts: General formulation of a microscopic integral equation theory. <i>Journal of Chemical Physics</i> , 1988 , 89, 3342-3349	3.9	61	
117	Elasticity and clustering in concentrated depletion gels. <i>Physical Review E</i> , 2004 , 70, 040401	2.4	59	
116	Multiscale structure, interfacial cohesion, adsorbed layers, and thermodynamics in dense polymer-nanoparticle mixtures. <i>Physical Review Letters</i> , 2011 , 107, 225504	7 . 4	58	
115	Real Space Structure and Scattering Patterns of Model Polymer Nanocomposites. <i>Macromolecules</i> , 2007 , 40, 6998-7008	5.5	58	
114	Non-Gaussian effects, space-time decoupling, and mobility bifurcation in glassy hard-sphere fluids and suspensions. <i>Physical Review E</i> , 2006 , 74, 061501	2.4	58	
113	Correlation between Fragility and the Arrhenius Crossover Phenomenon in Metallic, Molecular, and Network Liquids. <i>Physical Review Letters</i> , 2016 , 117, 205701	7.4	57	
112	Theory of activated glassy relaxation, mobility gradients, surface diffusion, and vitrification in free standing thin films. <i>Journal of Chemical Physics</i> , 2015 , 143, 244705	3.9	54	
111	Integral equation theory of polymer blends: Numerical investigation of molecular closure approximations. <i>Journal of Chemical Physics</i> , 1993 , 98, 9080-9093	3.9	54	
110	Dynamical Simulations of Coarse Grain Polymeric Systems: Rouse and Entangled Dynamics. <i>Macromolecules</i> , 2013 , 46, 6287-6299	5.5	51	
109	Nonlinear elasticity and yielding of depletion gels. <i>Journal of Chemical Physics</i> , 2005 , 123, 164902	3.9	51	
108	Self-consistent polymer integral equation theory: Comparisons with Monte Carlo simulations and alternative closure approximations. <i>Journal of Chemical Physics</i> , 1992 , 97, 1455-1464	3.9	51	
107	Progress towards a phenomenological picture and theoretical understanding of glassy dynamics and vitrification near interfaces and under nanoconfinement. <i>Journal of Chemical Physics</i> , 2019 , 151, 240901	3.9	50	
106	Structure-Property Correlations of Atomistic and Coarse-Grained Models of Polymer Melts. Macromolecules, 1995 , 28, 1528-1540	5.5	49	
105	Correlation effects in dilute particle-polymer mixtures. <i>Journal of Chemical Physics</i> , 1998 , 109, 10477-104	88	47	

104	Fluctuations effects in diblock copolymer fluids: Comparison of theories and experiment. <i>Journal of Chemical Physics</i> , 1997 , 106, 7391-7410	3.9	46
103	Revealing spatially heterogeneous relaxation in a model nanocomposite. <i>Journal of Chemical Physics</i> , 2015 , 143, 194704	3.9	44
102	Depletion interactions in suspensions of spheres and rodpolymers. <i>Journal of Chemical Physics</i> , 2002 , 117, 1351-1362	3.9	44
101	Relationships between the single particle barrier hopping theory and thermodynamic, disordered media, elastic, and jamming models of glassy systems. <i>Journal of Chemical Physics</i> , 2007 , 127, 164506	3.9	43
100	Variational approach to the conformation of flexible polymers in solution. <i>Journal of Chemical Physics</i> , 1993 , 99, 5571-5580	3.9	43
99	Structure, scattering patterns and phase behavior of polymer nanocomposites with nonspherical fillers. <i>Soft Matter</i> , 2010 , 6, 1015	3.6	42
98	On the scaling of the critical temperature with the degree of polymerization in symmetric polymer blends. <i>Journal of Chemical Physics</i> , 1992 , 97, 5927-5930	3.9	42
97	Theory of Localization and Activated Hopping of Nanoparticles in Cross-Linked Networks and Entangled Polymer Melts. <i>Macromolecules</i> , 2014 , 47, 405-414	5.5	41
96	Integral equation theory of block copolymer liquids. II. Numerical results for finite hard-core diameter chains. <i>Journal of Chemical Physics</i> , 1994 , 100, 7784-7795	3.9	41
95	Nonuniversal Coupling of Cage Scale Hopping and Collective Elastic Distortion as the Origin of Dynamic Fragility Diversity in Glass-Forming Polymer Liquids. <i>Macromolecules</i> , 2016 , 49, 9655-9664	5.5	41
94	Mode-coupling theory of the slow dynamics of polymeric liquids: Fractal macromolecular architectures. <i>Journal of Chemical Physics</i> , 1997 , 106, 347-375	3.9	40
93	Reptation as a dynamic mean-field theory: Self and tracer diffusion in a simple model of rodlike polymers. <i>Journal of Chemical Physics</i> , 1994 , 100, 3127-3141	3.9	40
92	Correlation effects and entropy-driven phase separation in athermal polymer blends. <i>Journal of Chemical Physics</i> , 1995 , 103, 5814-5832	3.9	38
91	Structure of confined alkane liquids. <i>Journal of Chemical Physics</i> , 1994 , 100, 3361-3364	3.9	37
90	Diffusion of Sticky Nanoparticles in a Polymer Melt: Crossover from Suppressed to Enhanced Transport. <i>Macromolecules</i> , 2018 , 51, 2268-2275	5.5	36
89	Barrier hopping, viscous flow, and kinetic gelation in particle-polymer suspensions. <i>Physical Review E</i> , 2005 , 71, 041405	2.4	36
88	Integral equation theory for compressible polymer alloys: thermodynamics, scattering, and miscibility of Gaussian chains. <i>Macromolecules</i> , 1991 , 24, 6736-6747	5.5	36
87	Dynamic yielding, shear thinning, and stress rheology of polymer-particle suspensions and gels. Journal of Chemical Physics, 2005 , 123, 164903	3.9	35

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86	Phase separation in suspensions of colloids, polymers and nanoparticles: Role of solvent quality, physical mesh, and nonlocal entropic repulsion. <i>Journal of Chemical Physics</i> , 2003 , 118, 3880-3890	3.9	35	
85	Ideal glass transitions, shear modulus, activated dynamics, and yielding in fluids of nonspherical objects. <i>Journal of Chemical Physics</i> , 2007 , 126, 014505	3.9	33	
84	Theory of gelation, vitrification, and activated barrier hopping in mixtures of hard and sticky spheres. <i>Journal of Chemical Physics</i> , 2008 , 128, 084509	3.9	32	
83	Self-assembly of monodisperse starburst carbon spheres into hierarchically organized nanostructured supercapacitor electrodes. <i>ACS Applied Materials & Distriction of the Property of the Pro</i>	9.5	30	
82	Linear and nonlinear rheology and structural relaxation in dense glassy and jammed soft repulsive pNIPAM microgel suspensions. <i>Soft Matter</i> , 2019 , 15, 1038-1052	3.6	29	
81	Long Wavelength Concentration Fluctuations and Cage Scale Ordering of Nanoparticles in Concentrated Polymer Solutions. <i>Macromolecules</i> , 2010 , 43, 10123-10131	5.5	29	
8o	Athermal stiffness blends: A comparison of Monte Carlo simulations and integral equation theory. Journal of Chemical Physics, 1995 , 103, 9460-9474	3.9	27	
79	Theory and Simulation of Attractive Nanoparticle Transport in Polymer Melts. <i>Macromolecules</i> , 2018 , 51, 2258-2267	5.5	26	
78	Thermodynamics and Structure of Poly[n]catenane Melts. <i>Macromolecules</i> , 2020 , 53, 3390-3408	5.5	25	
77	Liquid state theory of the structure and phase behaviour of polymer-tethered nanoparticles in dense suspensions, melts and nanocomposites. <i>Molecular Simulation</i> , 2009 , 35, 835-848	2	25	
76	Mode-coupling theory of diffusion in block copolymer melts: Influence of concentration fluctuations. <i>Journal of Chemical Physics</i> , 1995 , 103, 6296-6299	3.9	25	
75	Mode-coupling theory of macromolecular liquids. <i>Physica Scripta</i> , 1993 , T49A, 99-106	2.6	25	
74	A strain stiffening theory for transient polymer networks under asymptotically nonlinear oscillatory shear. <i>Journal of Rheology</i> , 2017 , 61, 643-665	4.1	24	
73	Dynamics of poly[n]catenane melts. <i>Journal of Chemical Physics</i> , 2020 , 152, 214901	3.9	24	
72	Physics of the Stress Overshoot and Chain Stretch Dynamics of Entangled Polymer Liquids Under Continuous Startup Nonlinear Shear. <i>ACS Macro Letters</i> , 2018 , 7, 218-222	6.6	24	
71	Microscopic Theory for the Role of Attractive Forces in the Dynamics of Supercooled Liquids. <i>Physical Review Letters</i> , 2015 , 115, 205702	7.4	24	
70	Glassy dynamics and kinetic vitrification of isotropic suspensions of hard rods. <i>Langmuir</i> , 2008 , 24, 7474	-84	24	
69	Anomalous diffusion, structural relaxation and shear thinning in glassy hard sphere fluids. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 244129	1.8	23	

68	Influence of chemistry, interfacial width, and non-isothermal conditions on spatially heterogeneous activated relaxation and elasticity in glass-forming free standing films. <i>Journal of Chemical Physics</i> , 2017 , 146, 203301	3.9	22
67	Entangled polymer chain melts: orientation and deformation dependent tube confinement and interchain entanglement elasticity. <i>Journal of Chemical Physics</i> , 2013 , 139, 234904	3.9	22
66	Dynamic Gradients, Mobile Layers, Tg Shifts, Role of Vitrification Criterion, and Inhomogeneous Decoupling in Free-Standing Polymer Films. <i>Macromolecules</i> , 2018 , 51, 6063-6075	5.5	21
65	Glassy dynamics and mechanical response in dense fluids of soft repulsive spheres. II. Shear modulus, relaxation-elasticity connections, and rheology. <i>Journal of Chemical Physics</i> , 2011 , 134, 20490	93.9	21
64	Inferring the Nonlinear Mechanisms of a Reversible Network. <i>Macromolecules</i> , 2018 , 51, 8772-8789	5.5	21
63	Theory of Entanglements and Tube Confinement in Rod-Sphere Nanocomposites <i>ACS Macro Letters</i> , 2013 , 2, 955-959	6.6	20
62	Activated dynamics in dense fluids of attractive nonspherical particles. I. Kinetic crossover, dynamic free energies, and the physical nature of glasses and gels. <i>Physical Review E</i> , 2011 , 83, 041406	2.4	20
61	Liquid-state theory of anisotropic flexible polymer fluids. <i>Journal of Chemical Physics</i> , 1999 , 110, 6597-6	609	20
60	Statistical Mechanical Theory of Penetrant Diffusion in Polymer Melts and Glasses. <i>Macromolecules</i> , 2016 , 49, 5727-5739	5.5	19
59	Correlated matrix-fluctuation-mediated activated transport of dilute penetrants in glass-forming liquids and suspensions. <i>Journal of Chemical Physics</i> , 2017 , 146, 194906	3.9	19
58	The influence of shape on the glassy dynamics of hard nonspherical particle fluids. I. Dynamic crossover and elasticity. <i>Journal of Chemical Physics</i> , 2009 , 130, 244906	3.9	19
57	Liquid crystallinity in flexible and rigid rod polymers. <i>Journal of Chemical Physics</i> , 2000 , 112, 4881-4892	3.9	19
56	Structure and thermodynamics of anisotropic polymer fluids. <i>Journal of Chemical Physics</i> , 2000 , 112, 48	6 9 .488	8 0 19
55	Consequences of Delayed Chain Retraction on the Rheology and Stretch Dynamics of Entangled Polymer Liquids under Continuous Nonlinear Shear Deformation. <i>Macromolecules</i> , 2018 , 51, 4185-4200	5.5	19
54	Mode-coupling theory of entangled polymer fluids. <i>Transport Theory and Statistical Physics</i> , 1995 , 24, 947-977		18
53	Theory of the spatial transfer of interface-nucleated changes of dynamical constraints and its consequences in glass-forming films. <i>Journal of Chemical Physics</i> , 2019 , 150, 044508	3.9	17
52	Influence of Longer Range Transfer of Vapor Interface Modified Caging Constraints on the Spatially Heterogeneous Dynamics of Glass-Forming Liquids. <i>Macromolecules</i> , 2019 , 52, 5192-5206	5.5	16
51	Stretching, Packing, and Thermodynamics in Highly Branched Polymer Melts. <i>Macromolecules</i> , 2003 , 36, 2544-2552	5.5	16

50	Density fluctuation correlation length in polymer fluids. <i>Journal of Chemical Physics</i> , 2003 , 119, 7599-76	603 9	16	
49	Analytic integral equation theory for the critical properties of homopolymer fluids. <i>Journal of Chemical Physics</i> , 1998 , 108, 3813-3826	3.9	16	
48	Microscopic Theory of Coupled Slow Activated Dynamics in Glass-Forming Binary Mixtures. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 3465-3479	3.4	15	
47	Mode-coupling theory of self-diffusion in diblock copolymers. II. Model calculations and experimental comparisons. <i>Journal of Chemical Physics</i> , 1998 , 108, 1271-1283	3.9	15	
46	Integral equation theory of thermodynamics, pair structure, and growing static length scale in metastable hard sphere and Weeks-Chandler-Andersen fluids. <i>Physical Review E</i> , 2020 , 101, 042121	2.4	15	
45	Percolation, phase separation, and gelation in fluids and mixtures of spheres and rods. <i>Journal of Chemical Physics</i> , 2011 , 135, 234902	3.9	14	
44	Mode-coupling theory of self-diffusion in diblock copolymers I. General derivation and qualitative predictions. <i>Journal of Chemical Physics</i> , 1998 , 108, 1257-1270	3.9	14	
43	Diffusion and relaxation of chain polymer liquids. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 71, 783-791		14	
42	Thermodynamics-Structure-Dynamics Correlations and Nonuniversal Effects in the Elastically Collective Activated Hopping Theory of Glass-Forming Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 6121-6131	3.4	14	
41	Theory of Spatial Gradients of Relaxation, Vitrification Temperature and Fragility of Glass-Forming Polymer Liquids Near Solid Substrates. <i>ACS Macro Letters</i> , 2020 , 9, 448-453	6.6	13	
40	Mode-coupling theory for self-diffusion in polymer blends and blend solutions. <i>Journal of Chemical Physics</i> , 1996 , 105, 779-791	3.9	12	
39	Entropic depletion in colloidal suspensions and polymer liquids: role of nanoparticle surface topography. <i>Soft Matter</i> , 2015 , 11, 9086-98	3.6	11	
38	Microscopic theory of the influence of strong attractive forces on the activated dynamics of dense glass and gel forming fluids. <i>Journal of Chemical Physics</i> , 2019 , 151, 244502	3.9	11	
37	Packing correlations, collective scattering and compressibility of fractal-like aggregates in polymer nanocomposites and suspensions. <i>Soft Matter</i> , 2011 , 7, 5397	3.6	10	
36	Bridging-Controlled Network Microstructure and Long-Wavelength Fluctuations in Silica B oly(2-vinylpyridine) Nanocomposites: Experimental Results and Theoretical Analysis. <i>Macromolecules</i> , 2020 , 53, 6984-6994	5.5	10	
35	Dynamic cross-correlations between entangled biofilaments as they diffuse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 3322-3327	11.5	9	
34	A collective elastic fluctuation mechanism for decoupling and stretched relaxation in glassy colloidal and molecular liquids. <i>Journal of Chemical Physics</i> , 2020 , 152, 034502	3.9	9	
33	Theory of activated penetrant diffusion in viscous fluids and colloidal suspensions. <i>Journal of Chemical Physics</i> , 2015 , 143, 144906	3.9	9	

32	Controlling effective interactions and spatial dispersion of nanoparticles in multiblock copolymer melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 1098-1111	2.6	9
31	Physical Bond Breaking in Associating Copolymer Liquids <i>ACS Macro Letters</i> , 2021 , 10, 122-128	6.6	9
30	The role of collective elasticity on activated structural relaxation, yielding, and steady state flow in hard sphere fluids and colloidal suspensions under strong deformation. <i>Journal of Chemical Physics</i> , 2020 , 153, 194502	3.9	9
29	Microscopic Theory of Long-Time Center-of-Mass Self-Diffusion and Anomalous Transport in Ring Polymer Liquids. <i>Macromolecules</i> , 2020 , 53, 10431-10445	5.5	9
28	Experimental test of a predicted dynamics-structure-thermodynamics connection in molecularly complex glass-forming liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
27	Segment-scale, force-level theory of mesoscopic dynamic localization and entropic elasticity in entangled chain polymer liquids. <i>Journal of Chemical Physics</i> , 2017 , 146, 134901	3.9	8
26	Theory of kinetic arrest, elasticity, and yielding in dense binary mixtures of rods and spheres. <i>Physical Review E</i> , 2012 , 86, 061503	2.4	8
25	Local structure, thermodynamics, and phase behavior of asymmetric particle mixtures: Comparison between integral equation theories and simulation. <i>Journal of Chemical Physics</i> , 2019 , 150, 214902	3.9	7
24	Theory of Anisotropic Diffusion of Entangled and Unentangled Polymers in Rod B phere Mixtures. <i>ACS Macro Letters</i> , 2015 , 4, 53-57	6.6	7
23	On the interpretation of EppleDolymer interdiffusion experiments in terms of models for bulk single-chain dynamics. <i>Journal of Chemical Physics</i> , 1995 , 102, 2222-2238	3.9	7
22	Integration of colloids into a semi-flexible network of fibrin. Soft Matter, 2017, 13, 1430-1443	3.6	6
21	Thermoresponsive Stiffening with Microgel Particles in a Semiflexible Fibrin Network. <i>Macromolecules</i> , 2019 , 52, 3029-3041	5.5	6
20	Microscopic Theory of the Effect of Caging and Physical Bonding on Segmental Relaxation in Associating Copolymer Liquids. <i>Macromolecules</i> , 2020 , 53, 4366-4380	5.5	6
19	PRISM Theory of Local Structure and Phase Behavior of Dense Polymer Nanocomposites: Improved Closure Approximation and Comparison with Simulation. <i>Macromolecules</i> , 2020 , 53, 9962-9972	5.5	6
18	Collective Nanoparticle Dynamics Associated with Bridging Network Formation in Model Polymer Nanocomposites. <i>ACS Nano</i> , 2021 ,	16.7	6
17	Nature of dynamic gradients, glass formation, and collective effects in ultrathin freestanding films. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
16	Activated penetrant dynamics in glass forming liquids: size effects, decoupling, slaving, collective elasticity and correlation with matrix compressibility. <i>Soft Matter</i> , 2021 , 17, 2624-2639	3.6	6
15	Multi-scale entropic depletion phenomena in polymer liquids. <i>Journal of Chemical Physics</i> , 2015 , 142, 214903	3.9	5

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14	Directing colloidal assembly and a metal-insulator transition using a quench-disordered porous rod template. <i>Physical Review Letters</i> , 2014 , 113, 208302	7.4	5
13	Mechanism of Soft Nanoparticle Diffusion in Entangled Polymer Melts. <i>Macromolecules</i> , 2020 , 53, 7580	-75589	5
12	Experimental Tests of a Theoretically Predicted Noncausal Correlation between Dynamics and Thermodynamics in Glass-forming Polymer Melts. <i>Macromolecules</i> ,	5.5	4
11	Theory of the effect of external stress on the activated dynamics and transport of dilute penetrants in supercooled liquids and glasses. <i>Journal of Chemical Physics</i> , 2021 , 155, 054505	3.9	4
10	Linear and nonlinear viscoelasticity of concentrated thermoresponsive microgel suspensions. Journal of Colloid and Interface Science, 2021, 601, 886-898	9.3	4
9	Microscopic Theory of Dynamically Heterogeneous Activated Relaxation as the Origin of Decoupling of Segmental and Chain Relaxation in Supercooled Polymer Melts. <i>Macromolecules</i> , 2020 , 53, 5350-5360	5.5	3
8	Microscopic theory of onset of decaging and bond-breaking activated dynamics in ultradense fluids with strong short-range attractions. <i>Physical Review E</i> , 2020 , 101, 060601	2.4	3
7	Theory of microstructure-dependent glassy shear elasticity and dynamic localization in melt polymer nanocomposites. <i>Journal of Chemical Physics</i> , 2020 , 153, 114901	3.9	3
6	Long Wavelength Thermal Density Fluctuations in Molecular and Polymer Glass-Forming Liquids: Experimental and Theoretical Analysis under Isobaric Conditions. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12353-12364	3.4	2
5	Theory of Transient Localization, Activated Dynamics, and a Macromolecular Glass Transition in Ring Polymer Liquids <i>ACS Macro Letters</i> , 2021 , 10, 1229-1235	6.6	1
4	Activated relaxation in supercooled monodisperse atomic and polymeric WCA fluids: Simulation and ECNLE theory <i>Journal of Chemical Physics</i> , 2022 , 156, 114901	3.9	1
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1	Preface: Special Topic on Dynamics of Polymer Materials in Thin Films and Related Geometries. Journal of Chemical Physics, 2017, 146, 203001	3.9	