C Michael Roland

List of Publications by Year
in descending order

314 papers	14,898 citations	15495 65 h-index	29127 104 g-index
317 all docs	317 docs citations	317 times ranked	5575 citing authors

#	Article	IF	Citations
1	Supercooled dynamics of glass-forming liquids and polymers under hydrostatic pressure. Reports on Progress in Physics, 2005, 68, 1405-1478.	8.1	637
2	Chemical structure and intermolecular cooperativity: dielectric relaxation results. Macromolecules, 1993, 26, 6824-6830.	2.2	298
3	Thermodynamical scaling of the glass transition dynamics. Physical Review E, 2004, 69, 062501.	0.8	289
4	High strain rate mechanical behavior of polyurea. Polymer, 2007, 48, 574-578.	1.8	265
5	Molecular Weight Dependence of Fragility in Polystyrene. Macromolecules, 1998, 31, 4581-4585.	2.2	242
6	Thermodynamic scaling of the viscosity of van der Waals, H-bonded, and ionic liquids. Journal of Chemical Physics, 2006, 125, 124508.	1.2	236
7	The bulk modulus and Poisson's ratio of â€œincompressibleâ€•materials. Journal of Sound and Vibration, 2008, 312, 572-575.	2.1	215
8	Do Theories of the Glass Transition, in which the Structural Relaxation Time Does Not Define the Dispersion of the Structural Relaxation, Need Revision?. Journal of Physical Chemistry B, 2005, 109, 17356-17360.	1.2	210
9	Viscoelastic properties of polymers. 4. Thermorheological complexity of the softening dispersion in polyisobutylene. Macromolecules, 1995, 28, 6432-6436.	2.2	188
10	Observation of the Component Dynamics in a Miscible Polymer Blend by Dielectric and Mechanical Spectroscopies. Macromolecules, 1994, 27, 4486-4492.	2.2	186
11	Relationship between the primary and secondary dielectric relaxation processes in propylene glycol and its oligomers. Journal of Chemical Physics, 1999, 110, 11585-11591.	1.2	181
12	Thermodynamic interpretation of the scaling of the dynamics of supercooled liquids. Journal of Chemical Physics, 2006, 125, 014505.	1.2	168
13	Does the Arrhenius Temperature Dependence of the Johari-Goldstein Relaxation Persist aboveTg?. Physical Review Letters, 2003, 91, 115701.	2.9	167
14	Dynamical heterogeneity in a miscible polymer blend. Macromolecules, 1991, 24, 2261-2265.	2.2	163
15	Effect of Silica Nanoparticles on the Local Segmental Dynamics in Poly(vinyl acetate). Macromolecules, 2008, 41, 1289-1296.	2.2	159
16	Glass Transition and Interfacial Segmental Dynamics in Polymer-Particle Composites. Rubber Chemistry and Technology, 2008, 81, 506-522.	0.6	153
17	Thermodynamic Scaling of Diffusion in Supercooled Lennard-Jones Liquids. Journal of Physical Chemistry B, 2008, 112, 1329-1332.	1.2	151
18	Scaling of the supercooled dynamics and its relation to the pressure dependences of the dynamic crossover and the fragility of glass formers. Physical Review B, 2005, 71, .	1.1	150

#	Article	IF	Citations
19	Segmental relaxation and molecular structure in polybutadienes and polyisoprene. Macromolecules, 1991, 24, 5315-5319.	2.2	146
20	Impact-induced glass transition in elastomeric coatings. Applied Physics Letters, 2007, 90, 221910.	1.5	146
21	Segmental relaxation and the correlation of time and temperature dependencies in poly (vinyl methyl) Tj ETQq1 1 0.784314 rgBT /Ove	2.2	142
22	Aging of the Secondary Relaxation to Probe Structural Relaxation in the Glassy State. Physical Review Letters, 2009, 102, 035701.	2.9	139
23	Elastomerâ€“steel laminate armor. Composite Structures, 2010, 92, 1059-1064.	3.1	134
24	The application of the energy landscape model to polymers. Journal of Chemical Physics, 1999, 111, 5593-5598.	1.2	133
25	Constraints on Local Segmental Motion in Poly(vinylethylene) Networks. Macromolecules, 1994, 27, 4242-4247.	2.2	128
26	Segmental dynamics of polyurea: Effect of stoichiometry. Polymer, 2010, 51, 178-184.	1.8	127
27	Relaxation Phenomena in Vitrifying Polymers and Molecular Liquids. Macromolecules, 2010, 43, 7875-7890.	2.2	124
28	Predicting the density-scaling exponent of a glass-forming liquid from Prigogineâ€“Defay ratio measurements. Nature Physics, 2011, 7, 816-821.	6.5	122
29	Relative contributions of thermal energy and free volume to the temperature dependence of structural relaxation in fragile glass-forming liquids. Physical Review B, 2002, 66, .	1.1	114
30	Characteristic relaxation times and their invariance to thermodynamic conditions. Soft Matter, 2008, 4, 2316.	1.2	114
31	Nuclear magnetic resonance study of polyisoprene/poly(vinylethylene) miscible blends. Macromolecules, 1990, 23, 4543-4547.	2.2	110
32	Pressure Evolution of the Excess Wing in a Type-BGlass Former. Physical Review Letters, 2003, 91, 015702.	2.9	107
33	Dynamics near the Glass Temperature of Low Molecular Weight Cyclic Polystyrene. Macromolecules, 2001, 34, 9002-9005.	2.2	105
34	Microstructure and Segmental Dynamics of Polyurea under Uniaxial Deformation. Macromolecules, 2012, 45, 3581-3589.	2.2	105
35	Temperature dependence of local segmental motion in polystyrene and its variation with molecular weight. Journal of Chemical Physics, 2003, 119, 1838-1842.	1.2	101
36	Temperature and Volume Effects on Local Segmental Relaxation in Poly(vinyl acetate). Macromolecules, 2003, 36, 1361-1367.	2.2	100

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37	Connection between the high-frequency crossover of the temperature dependence of the relaxation time and the change of intermolecular coupling in glass-forming liquids. Physical Review B, 2003, 68, .	1.1	100
38	Effect of pressure on the Î± relaxation in glycerol and xylitol. Journal of Chemical Physics, 2002, 116, 9839-9844.	1.2	98
39	Isochronal temperatureâ€“pressure superpositioning of the Î±-relaxation in type-A glass formers. Chemical Physics Letters, 2003, 367, 259-264.	1.2	98
40	Temperature Dependence of Segmental and Terminal Relaxation in Atactic Polypropylene Melts. Macromolecules, 2001, 34, 6159-6160.	2.2	94
41	FLOCCULATION, REINFORCEMENT, AND GLASS TRANSITION EFFECTS IN SILICA-FILLED STYRENE-BUTADIENE RUBBER. Rubber Chemistry and Technology, 2011, 84, 507-519.	0.6	93
42	Development of cooperativity in the local segmental dynamics of poly(vinylacetate): synergy of thermodynamics and intermolecular coupling. Polymer, 2002, 43, 567-573.	1.8	90
43	Structure Evolution in a Polyurea Segmented Block Copolymer Because of Mechanical Deformation. Macromolecules, 2008, 41, 7543-7548.	2.2	89
44	Dynamic crossover in supercooled liquids induced by high pressure. Journal of Chemical Physics, 2003, 118, 5701-5703.	1.2	86
45	Polyisobutylene: A most unusual polymer. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1390-1399.	2.4	86
46	Effect of hydrostatic pressure on the viscoelastic response of polyurea. Polymer, 2007, 48, 5747-5752.	1.8	85
47	Temperature Dependence of Mechanical and Dielectric Relaxation incis-1,4-Polyisoprene. Macromolecules, 1998, 31, 3715-3719.	2.2	83
48	Evolution of the Dynamics in 1,4-Polyisoprene from a Nearly Constant Loss to a Johariâ^'Goldsteinî²-Relaxation to theî±-Relaxation. Macromolecules, 2004, 37, 2630-2635.	2.2	83
49	An equation for the description of volume and temperature dependences of the dynamics of supercooled liquids and polymer melts. Journal of Non-Crystalline Solids, 2007, 353, 3936-3939.	1.5	81
50	Temperature and volume effects on the change of dynamics in propylene carbonate. Physical Review E, 2004, 70, 061501.	0.8	80
51	Entropically driven miscibility in a blend of high molecular weight polymers. Macromolecules, 1987, 20, 2557-2563.	2.2	79
52	Normalization of the temperature dependence of segmental relaxation times. Macromolecules, 1992, 25, 5765-5768.	2.2	79
53	Mechanical Behavior of Rubber at High Strain Rates. Rubber Chemistry and Technology, 2006, 79, 429-459.	0.6	78
54	Excess wing in the dielectric loss spectra of propylene glycol oligomers at elevated pressure. Physical Review B, 2004, 69, .	1.1	77

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55	Insights on the origin of the Debye process in monoalcohols from dielectric spectroscopy under extreme pressure conditions. Journal of Chemical Physics, 2010, 132, 144505.	1.2	76
56	On the density scaling of liquid dynamics. Journal of Chemical Physics, 2011, 134, 044504.	1.2	76
57	Comparison of glass formation kinetics and segmental relaxation in polymers. Journal of Non-Crystalline Solids, 2000, 275, 153-159.	1.5	75
58	Temperature and Density Effects on the Local Segmental and Global Chain Dynamics of Poly(oxybutylene). Macromolecules, 2005, 38, 1779-1788.	2.2	75
59	A nearly ideal mixture of high polymers. Macromolecules, 1989, 22, 256-261.	2.2	74
60	Acoustic and dynamic mechanical properties of a polyurethane rubber. Journal of the Acoustical Society of America, 2002, 111, 1782-1790.	0.5	74
61	The relative contributions of temperature and volume to structural relaxation of van der Waals molecular liquids. Journal of Chemical Physics, 2003, 118, 4578-4582.	1.2	74
62	Dynamic properties of polyvinylmethylether near the glass transition. Journal of Chemical Physics, 2003, 119, 4052-4059.	1.2	72
63	Viscosity at the Dynamic Crossover ino-Terphenyl and Salol under High Pressure. Physical Review Letters, 2004, 92, 245702.	2.9	72
64	Dynamics of Sorbitol at Elevated Pressure. Journal of Physical Chemistry B, 2002, 106, 12459-12463.	1.2	70
65	Pressure and Temperature Dependence of the Î±-Relaxation in Poly(methyltolylsiloxane). Macromolecules, 2002, 35, 7338-7342.	2.2	68
66	Segmental Relaxation in Poly(dimethylsiloxane). Macromolecules, 1996, 29, 5747-5750.	2.2	66
67	Dynamics of Salol at Elevated Pressure. Journal of Physical Chemistry A, 2003, 107, 2369-2373.	1.1	66
68	Distinctive manifestations of segmental motion in amorphous poly(tetrahydrofuran) and polyisobutylene. Macromolecules, 1993, 26, 2682-2687.	2.2	65
69	The effect of pressure on the structural and secondary relaxations in 1,1â€²-bis (p-methoxyphenyl) cyclohexane. Journal of Chemical Physics, 2002, 117, 2317-2323.	1.2	65
70	Temperature and pressure dependence of the Î±-relaxation in polymethylphenylsiloxane. Journal of Chemical Physics, 2002, 116, 10932-10937.	1.2	65
71	High frequency relaxation of oâ€terphenyl. Journal of Chemical Physics, 1995, 103, 4632-4636.	1.2	64
72	Aging of Natural Rubber in Air and Seawater. Rubber Chemistry and Technology, 2001, 74, 79-88.	0.6	64

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73	Temperature Dependence of Relaxation in Polypropylene and Poly(ethylene-co-propylene). Macromolecules, 1996, 29, 3651-3653.	2.2	63
74	Why liquids are fragile. Physical Review E, 2005, 72, 031503.	0.8	63
75	Pressure-energy correlations and thermodynamic scaling in viscous Lennard-Jones liquids. Journal of Chemical Physics, 2009, 130, 014508.	1.2	63
76	Scaling of the segmental relaxation times of polymers and its relation to the thermal expansivity. Colloid and Polymer Science, 2004, 283, 107-110.	1.0	62
77	Dielectric Î±-relaxation and ionic conductivity in propylene glycol and its oligomers measured at elevated pressure. Journal of Chemical Physics, 2003, 119, 11951-11956.	1.2	61
78	Pressure and temperature dependence of structural relaxation in diglycidylether of bisphenol A. Journal of Chemical Physics, 2003, 118, 3177-3186.	1.2	61
79	Dynamic mechanical behavior of filled rubber at small strains. Journal of Rheology, 1990, 34, 25-34.	1.3	58
80	Volume and temperature as control parameters for the dielectric Î± relaxation of polymers and molecular glass formers. Philosophical Magazine, 2004, 84, 1573-1581.	0.7	58
81	Terminal and segmental relaxations in epoxidized polyisoprene. Macromolecules, 1992, 25, 7031-7036.	2.2	57
82	Segmental Relaxation in End-Linked Poly(dimethylsiloxane) Networks. Macromolecules, 2002, 35, 2676-2681.	2.2	57
83	Effects of the volume and temperature on the global and segmental dynamics in poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock	2.4	56
84	The anomalous Debyeâ€“Waller factor and the fragility of glasses. Journal of Chemical Physics, 1996, 104, 2967-2970.	1.2	55
85	Nanofiller reinforcement of elastomeric polyurea. Polymer, 2012, 53, 1282-1287.	1.8	55
86	Junction Dynamics and the Elasticity of Networks. Macromolecules, 1994, 27, 2454-2459.	2.2	53
87	Adamâ€“Gibbs model for the supercooled dynamics in the ortho-terphenyl ortho-phenylphenol mixture. Journal of Chemical Physics, 2004, 120, 10640-10646.	1.2	53
88	Volume and Temperature Dependences of the Global and Segmental Dynamics in Polymers:Â Functional Forms and Implications for the Glass Transition. Macromolecules, 2005, 38, 4363-4370.	2.2	53
89	Detailed correspondences between dielectric and mechanical relaxations in poly(vinylethylene). Macromolecules, 1994, 27, 407-410.	2.2	52
90	Effect of chain length on fragility and thermodynamic scaling of the local segmental dynamics in poly(methylmethacrylate). Journal of Chemical Physics, 2007, 126, 184903.	1.2	51

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91	Structural and Secondary Relaxations in Supercooled Di-n-butyl Phthalate and Diisobutyl Phthalate at Elevated Pressure. Journal of Physical Chemistry B, 2004, 108, 4997-5003.	1.2	50
92	Role of hydrogen bonds in the supercooled dynamics of glass-forming liquids at high pressures. Physical Review B, 2008, 77, .	1.1	50
93	Investigation of the correlation between structural relaxation time and configurational entropy under high pressure in a chlorinated biphenyl. Journal of Chemical Physics, 2002, 117, 4901-4906.	1.2	49
94	Segmental- and normal-mode dielectric relaxation of poly(propylene glycol) under pressure. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 3047-3052.	2.4	49
95	Chemical Structure and Local Segmental Dynamics in 1,2-Polybutadiene. Macromolecules, 2003, 36, 4954-4959.	2.2	49
96	Unusual Component Dynamics in Poly(ethylene oxide)/Poly(methyl methacrylate) Blends As Probed by Deuterium NMR. Macromolecules, 2004, 37, 2817-2822.	2.2	49
97	Reentanglement Kinetics in Sheared Polybutadiene Solutions. Macromolecules, 2004, 37, 10018-10022.	2.2	49
98	Density scaling in viscous liquids: From relaxation times to four-point susceptibilities. Journal of Chemical Physics, 2009, 131, 151103.	1.2	49
99	Normal Mode Relaxation in Linear and Branched Polyisoprene. Macromolecules, 1996, 29, 7521-7526.	2.2	48
100	?- and ?-Relaxations in neat and antiplasticized polybutadiene. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 1841-1847.	2.4	48
101	Quantifying the Structural Dynamics of Pharmaceuticals in the Glassy State. Journal of Physical Chemistry Letters, 2012, 3, 1238-1241.	2.1	48
102	Factors influencing the ballistic impact resistance of elastomer-coated metal substrates. Philosophical Magazine, 2013, 93, 468-477.	0.7	48
103	Segmental relaxation in miscible polymer blends. Journal of Rheology, 1992, 36, 1691-1706.	1.3	47
104	Dielectric and mechanical relaxation of cresolphthaleinâ€“dimethylether. Journal of Chemical Physics, 2002, 117, 1188-1193.	1.2	47
105	Cation Mass Dependence of the Nearly Constant Dielectric Loss in Alkali Triborate Glasses. Physical Review Letters, 2002, 88, 125902.	2.9	46
106	Elasticity of Natural Rubber Networks. Macromolecules, 1996, 29, 6941-6945.	2.2	45
107	Electrostrictive Properties of Poly(vinylidenefluorideâˆ’trifluoroethyleneâˆ’chlorotrifluoroethylene). Chemistry of Materials, 2002, 14, 2590-2593.	3.2	45
108	Component Dynamics in Polyisoprene/Poly(vinylethylene) Blends. Macromolecules, 1995, 28, 4033-4035.	2.2	44

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109	Deformation of polyurea: Where does the energy go?. Polymer, 2016, 105, 227-233.	1.8	44
110	Rheology of Star-Branched Polyisobutylene. Macromolecules, 1999, 32, 1972-1977.	2.2	43
111	Effect of volume changes on segmental relaxation in siloxane polymers. Physical Review E, 2003, 68, 031802.	0.8	43
112	Effect of large hydrostatic pressure on the dielectric loss spectrum of type-Aglass formers. Physical Review E, 2004, 69, 050501.	0.8	43
113	Scaling of the local dynamics and the intermolecular potential. Journal of Non-Crystalline Solids, 2006, 352, 4895-4899.	1.5	43
114	Anomalous properties of the local dynamics in polymer glasses. Journal of Chemical Physics, 2009, 131, 114501.	1.2	42
115	Models for the Component Dynamics in Blends and Mixtures. Rubber Chemistry and Technology, 2004, 77, 579-590.	0.6	41
116	Dynamic Heterogeneity and Density Scaling in 1,4-Polyisoprene. Macromolecules, 2011, 44, 1149-1155.	2.2	41
117	129Xe NMR as a probe of polymer blends. Journal of Polymer Science, Part B: Polymer Physics, 1992, 30, 527-532.	2.4	40
118	Cohen-Grest model for the dynamics of supercooled liquids. Physical Review E, 2003, 67, 021508.	0.8	40
119	Limits to Poisson's ratio in isotropic materialsâ€”general result for arbitrary deformation. Physica Scripta, 2013, 87, 055404.	1.2	40
120	Thermodynamic scaling and the characteristic relaxation time at the phase transition of liquid crystals. Journal of Chemical Physics, 2008, 128, 224506.	1.2	39
121	Interplay between Core and Interfacial Mobility and Its Impact on the Measured Glass Transition: Dielectric and Calorimetric Studies. Journal of Physical Chemistry C, 2016, 120, 7373-7380.	1.5	39
122	SOLID PROPELLANTS. Rubber Chemistry and Technology, 2019, 92, 1-24.	0.6	39
123	Correlation of nonexponentiality with dynamic heterogeneity from four-point dynamic susceptibility Ï‡4(t) and its approximation Ï‡T(t). Journal of Chemical Physics, 2010, 133, 124507.	1.2	38
124	Mechanical and Optical Behavior of Double Network Rubbers. Macromolecules, 2000, 33, 4132-4137.	2.2	36
125	Influence of molecular structure on the dynamics of supercooled van der Waals liquids. Physical Review E, 2003, 67, 031505.	0.8	36
126	The Role of Density and Temperature in the Dynamics of Polymer Blends. Macromolecules, 2005, 38, 8729-8733.	2.2	36

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127	Determination of the Thermodynamic Scaling Exponent for Relaxation in Liquids from Static Ambient-Pressure Quantities. Physical Review Letters, 2014, 113, 085701.	2.9	36
128	Network Recovery from Uniaxial Extension: I. Elastic Equilibrium. Rubber Chemistry and Technology, 1989, 62, 863-879.	0.6	35
129	Trends in the temperature dependency of segmental relaxation in tetramethylbisphenol A polycarbonate/polystyrene blends. Macromolecules, 1992, 25, 3906-3909.	2.2	35
130	Mechanical and Dielectric Spectroscopy of Aroclor, 1,2-Polybutadiene, and Their Mixtures. Macromolecules, 1995, 28, 3463-3467.	2.2	35
131	Interrupted shear flow of unentangled polystyrene melts. Journal of Rheology, 2001, 45, 583-594.	1.3	35
132	Density scaling of the dynamics of vitrifying liquids and its relationship to the dynamic crossover. Journal of Non-Crystalline Solids, 2005, 351, 2581-2587.	1.5	35
133	Dynamic Heterogeneity in Poly(vinyl methyl ether)/Poly(2-chlorostyrene) Blends. Macromolecules, 2006, 39, 3581-3587.	2.2	35
134	Dynamic correlation length scales under isochronal conditions. Journal of Chemical Physics, 2015, 142, 064504.	1.2	35
135	Strain-Crystallization of Guayule and Hevea Rubbers. Rubber Chemistry and Technology, 1997, 70, 202-210.	0.6	34
136	Nonlinear rheology of hyperbranched polyisobutylene. Journal of Rheology, 2002, 46, 307-320.	1.3	34
137	Pressure Effects on the Segmental Dynamics of Hydrogen-Bonded Polymer Blends. Macromolecules, 2003, 36, 9917-9923.	2.2	34
138	Effect of chemical structure on the isobaric and isochoric fragility in polychlorinated biphenyls. Journal of Chemical Physics, 2005, 122, 134505.	1.2	34
139	Low frequency relaxation in liquid crystals in relation to structural relaxation in glass-formers. Journal of Non-Crystalline Solids, 2011, 357, 740-745.	1.5	34
140	Local and Global Dynamics in Polypropylene Glycol/Silica Composites. Macromolecules, 2016, 49, 3919-3924.	2.2	34
141	Electrostrictive behavior of poly(vinylidene fluoride-trifluoroethylene-chlorotrifluoroethylene). Applied Physics Letters, 2003, 83, 1190-1192.	1.5	33
142	Density Scaling and Dynamic Correlations in Viscous Liquids. Journal of Physical Chemistry B, 2009, 113, 13134-13137.	1.2	33
143	On the pressure dependence of the fragility of glycerol. Journal of Physics Condensed Matter, 2009, 21, 332101.	0.7	33
144	Aging of a low molecular weight poly(methyl methacrylate). Journal of Non-Crystalline Solids, 2011, 357, 282-285.	1.5	33

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145	The Mechanical Behavior of Double Network Elastomers. Rubber Chemistry and Technology, 1994, 67, 359-365.	0.6	32
146	Terminal Relaxations in Linear and Three-Arm Star Polyisoprenes. Macromolecules, 1996, 29, 1562-1568.	2.2	32
147	Crystallization of polydimethylsiloxane end-linked networks. Polymer Bulletin, 2000, 45, 439-445.	1.7	32
148	Reentanglement Kinetics in Polyisobutylene. Macromolecules, 2013, 46, 9403-9408.	2.2	32
149	Commentary on â€˜Strong and fragile liquids - A brief critiqueâ€™. Journal of Non-Crystalline Solids, 1997, 212, 74-76.	1.5	31
150	Temperature Dependence of the Johariâ€“Goldstein Relaxation in Poly(methyl methacrylate) and Poly(thiomethyl methacrylate). Macromolecules, 2013, 46, 330-334.	2.2	31
151	Analysis of the susceptibility minimum observed in 0.4Ca(NO3)2â€“0.6KNO3 by dielectric spectroscopy and light scattering. Journal of Chemical Physics, 2000, 112, 5181-5189.	1.2	30
152	The dynamics crossover region in phenol- and cresol-phthalein-dimethylethers under different conditions of pressure and temperature. Journal of Physics Condensed Matter, 2003, 15, S859-S867.	0.7	30
153	Fragility and the dynamic crossover in lubricants. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2007, 221, 801-811.	1.0	30
154	Connection between dynamics and thermodynamics of liquids on the melting line. Physical Review E, 2011, 83, 031504.	0.8	30
155	Space-Dependent Dynamics in 1,4-Polybutadiene Nanocomposite. Macromolecules, 2013, 46, 6667-6669.	2.2	30
156	A Constraint Dynamics Approach to Rubber Elasticity. Rubber Chemistry and Technology, 1993, 66, 817-826.	0.6	29
157	Highly electrostrictive poly(vinylidene fluorideâ€“trifluoroethylene) networks. Applied Physics Letters, 2001, 79, 2627-2629.	1.5	29
158	Density Scaling of the Structural and Johariâ€“Goldstein Secondary Relaxations in Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	2.2	29
159	Density scaling and decoupling in o-terphenyl, salol, and dibutyphthalate. Journal of Chemical Physics, 2016, 145, .	1.2	29
160	Segmental relaxation in blends of polychloroprene and epoxidized polyisoprene. Macromolecules, 1994, 27, 5382-5386.	2.2	28
161	Linear viscoelastic properties of hyperbranched polyisobutylene. Journal of Rheology, 2001, 45, 759-772.	1.3	28
162	Elastomer-metal laminate armor. Materials and Design, 2016, 111, 362-368.	3.3	28

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163	The Mullins Effect in Crosslinked Rubber. Journal of Rheology, 1989, 33, 659-670.	1.3	27
164	Temperature dependence of segmental motion in polyisobutylene and poly(vinylethylene). Macromolecules, 1992, 25, 4911-4914.	2.2	27
165	Relaxation dynamics in poly(methylphenylsiloxane), 1,1-bis(p-methoxyphenyl)cyclohexane, and their mixtures. Macromolecules, 1993, 26, 6164-6170.	2.2	27
166	Entropy basis for the thermodynamic scaling of the dynamics ofo-terphenyl. Journal of Physics Condensed Matter, 2007, 19, 205118.	0.7	27
167	Dynamics of Poly(cyclohexyl methacrylate):Â Neat and in Blends with Poly(Î±-methylstyrene). Macromolecules, 2007, 40, 3631-3639.	2.2	27
168	Effect of entropy on the dynamics of supercooled liquids: new results from high pressure data. Philosophical Magazine, 2007, 87, 459-467.	0.7	26
169	Î±-relaxation and the excess wing in polychlorinated biphenyls. Physical Review B, 2002, 66, .	1.1	25
170	Test of the energy landscape interpretation of fragility in polymers. Physical Review B, 1998, 58, 14121-14123.	1.1	24
171	Creep of selenium near the glass temperature. Journal of Chemical Physics, 1999, 111, 9337-9342.	1.2	24
172	The Avramov model of structural relaxation. Journal of Non-Crystalline Solids, 2003, 316, 413-417.	1.5	24
173	Strains in an Inflated Rubber Sheet. Rubber Chemistry and Technology, 2003, 76, 326-333.	0.6	24
174	Strength Enhancement in Miscible Blends of Butyl Rubber and Polyisobutylene. Macromolecules, 2013, 46, 2818-2822.	2.2	24
175	Short-time viscous and density relaxation in glycerol and ortho-terphenyl. Journal of Chemical Physics, 1997, 106, 1187-1190.	1.2	23
176	Electromechanical properties of poly(vinylidene fluoride-trifluoroethylene) networks. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 1975-1984.	2.4	23
177	Comment on: â€œDisentangling density and temperature effects in the viscous slowing down of glass forming liquidsâ€•[J. Chem. Phys. 120, 6135 (2004)]. Journal of Chemical Physics, 2004, 121, 11503.	1.2	23
178	What Can We Learn by Squeezing a Liquid?. Journal of Physical Chemistry B, 2006, 110, 11491-11495.	1.2	23
179	Volume effects on the glass transition dynamics. Journal of Non-Crystalline Solids, 2006, 352, 4910-4914.	1.5	23
180	Clarifying the Molecular Weight Dependence of the Segmental Dynamics of Polybutadiene. Macromolecules, 2010, 43, 2904-2909.	2.2	23

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181	Density-scaling and the Prigogineâ€“Defay ratio in liquids. Journal of Chemical Physics, 2011, 135, 224501.	1.2	23
182	Local segmental relaxation in bidisperse polystyrenes. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2604-2611.	2.4	22
183	Pressureâ€induced polymerization of tetraethylene glycol dimethacrylate. Journal of Polymer Science Part A, 2008, 46, 3795-3801.	2.5	22
184	Guides to solving the glass transition problem. Journal of Physics Condensed Matter, 2008, 20, 244125.	0.7	22
185	Molecular dynamics simulation of the Johari-Goldstein relaxation in a molecular liquid. Physical Review E, 2012, 86, 020501.	0.8	22
186	Characteristics of the Johari-Goldstein process in rigid asymmetric molecules. Physical Review E, 2013, 88, 042307.	0.8	22
187	The onset of orientational crystallization in poly(ethylene terephthalate) during low temperature drawing. Polymer Engineering and Science, 1991, 31, 1434-1439.	1.5	21
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