

C Michael Roland

List of Publications by Year in descending order

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314
papers

14,898
citations

17776

65
h-index

33145

104
g-index

317
all docs

317
docs citations

317
times ranked

6312
citing authors

#	ARTICLE	IF	CITATIONS
1	Structurally Related Scaling Behavior in Ionic Systems. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1240-1244.	1.2	12
2	Dynamic Properties of Supercooled Chlorinated Biphenyls. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5073-5078.	1.2	0
3	DEFORMATION INDEX APPLIED TO IMPACT. <i>Rubber Chemistry and Technology</i> , 2020, 93, 261-273.	0.6	1
4	Intermolecular distance and density scaling of dynamics in molecular liquids. <i>Journal of Chemical Physics</i> , 2019, 150, 204501.	1.2	15
5	Chain Flexibility and the Segmental Dynamics of Polymers. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5930-5934.	1.2	7
6	Molecular Weight Dependence of the Viscosity of Highly Entangled Polyisobutylene. <i>Macromolecules</i> , 2019, 52, 5177-5182.	2.2	18
7	Comment on "Experimental Evidence for a State-Point-Dependent Density-Scaling Exponent of Liquid Dynamics", <i>Physical Review Letters</i> , 2019, 123, 189601.	2.9	9
8	Stability Limits of Pressure Densified Polycarbonate Glass. <i>Macromolecules</i> , 2019, 52, 4139-4144.	2.2	11
9	SOLID PROPELLANTS. <i>Rubber Chemistry and Technology</i> , 2019, 92, 1-24.	0.6	39
10	Pressure densified 1,3,5-tri(1-naphthyl)benzene glass. I. Volume recovery and physical aging. <i>Journal of Chemical Physics</i> , 2019, 151, 184502.	1.2	9
11	The complex behavior of the "simplest" liquid: Breakdown of density scaling in tetramethyl tetraphenyl trisiloxane. <i>Journal of Chemical Physics</i> , 2019, 151, 174501.	1.2	11
12	Nonlinear dielectric spectroscopy of propylene carbonate derivatives. <i>Journal of Chemical Physics</i> , 2018, 148, 134506.	1.2	5
13	Segmental and secondary dynamics of nanoparticle-grafted oligomers. <i>Soft Matter</i> , 2018, 14, 8604-8611.	1.2	9
14	Acoustic properties and density of polyurea at pressure up to 13.5 GPa through Brillouin scattering spectroscopy. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	9
15	Dynamic Correlation Under Isochronal Conditions. <i>Advances in Dielectrics</i> , 2018, , 261-276.	1.2	0
16	The β and Johari-Goldstein Relaxations in 1,4-Polybutadiene: Breakdown of Isochronal Superpositioning. <i>Macromolecules</i> , 2018, 51, 4694-4698.	2.2	12
17	Cooperativity of short-time dynamics revisited. <i>Journal of Non-Crystalline Solids</i> , 2018, 500, 18-21.	1.5	2
18	Participation in the Johari-Goldstein Process: Molecular Liquids versus Polymers. <i>Macromolecules</i> , 2017, 50, 4039-4042.	2.2	12

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19	Dynamics of poly(vinyl methyl ketone) thin films studied by local dielectric spectroscopy. Journal of Chemical Physics, 2017, 146, 203315.	1.2	6
20	A test for the existence of isomorphs in glass-forming materials. Journal of Chemical Physics, 2017, 147, 084508.	1.2	11
21	Vitrification and Density Scaling of Polyurea at Pressures up to 6 GPa. Macromolecules, 2017, 50, 8274-8278.	2.2	15
22	Role of structure in the $\hat{\epsilon}^{\pm}$ and $\hat{\epsilon}^2$ dynamics of a simple glass-forming liquid. Physical Review E, 2017, 95, 022607.	0.8	12
23	Communication: Effect of density on the physical aging of pressure-densified polymethylmethacrylate. Journal of Chemical Physics, 2017, 147, 091104.	1.2	12
24	Pressure densification of a simple liquid. Journal of Non-Crystalline Solids, 2017, 475, 25-27.	1.5	11
25	DEVIATION FROM CLASSICAL ELASTICITY IN THE ACOUSTIC RESPONSE OF AUXETIC FOAMS. Rubber Chemistry and Technology, 2017, 90, 381-386.	0.6	3
26	SHORT TIME AND STRUCTURAL DYNAMICS IN POLYPROPYLENE GLYCOL NANOCOMPOSITE. Rubber Chemistry and Technology, 2017, 90, 264-271.	0.6	3
27	Local and Global Dynamics in Polypropylene Glycol/Silica Composites. Macromolecules, 2016, 49, 3919-3924.	2.2	34
28	Elastomer-metal laminate armor. Materials and Design, 2016, 111, 362-368.	3.3	28
29	Deformation of polyurea: Where does the energy go?. Polymer, 2016, 105, 227-233.	1.8	44
30	Density scaling and decoupling in <i>o</i> -terphenyl, salol, and dibutyphthalate. Journal of Chemical Physics, 2016, 145, .	1.2	29
31	The "anomalous" dynamics of decahydroisoquinoline revisited. Journal of Chemical Physics, 2016, 144, 024502.	1.2	13
32	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
33	Coating/substrate interaction in elastomer-steel bilayer armor. Journal of Composite Materials, 2016, 50, 2853-2859.	1.2	8
34	ELECTRICAL AND DIELECTRIC PROPERTIES OF RUBBER. Rubber Chemistry and Technology, 2016, 89, 32-53.	0.6	16
35	The effect of nanoclay on the rheology and dynamics of polychlorinated biphenyl. Soft Matter, 2015, 11, 9379-9384.	1.2	5
36	Thermoplastic elastomers of alloocimene and isobutylene triblock copolymers. Polymer, 2015, 56, 280-283.	1.8	18

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37	Rotational dynamics of simple asymmetric molecules. <i>Physical Review E</i> , 2015, 91, 022310.	0.8	9
38	Dynamic correlation length scales under isochronal conditions. <i>Journal of Chemical Physics</i> , 2015, 142, 064504.	1.2	35
39	Effect of Interface Interaction on the Segmental Dynamics of Poly(vinyl acetate) Investigated by Local Dielectric Spectroscopy. <i>ACS Macro Letters</i> , 2015, 4, 1022-1026.	2.3	14
40	The rheology and gelation of bidisperse 1,4-polybutadiene. <i>Polymer</i> , 2015, 81, 111-118.	1.8	11
41	Phase behavior and dynamics of a cholesteric liquid crystal. <i>Journal of Chemical Physics</i> , 2014, 140, 074502.	1.2	12
42	Dynamic correlations and heterogeneity in the primary and secondary relaxations of a model molecular liquid. <i>Physical Review E</i> , 2014, 89, 052304.	0.8	21
43	Volumetric study of <i>n</i> -octyloxy-cyanobiphenyl (8OCB). <i>Liquid Crystals</i> , 2014, 41, 9-14.	0.9	9
44	Determination of the Thermodynamic Scaling Exponent for Relaxation in Liquids from Static Ambient-Pressure Quantities. <i>Physical Review Letters</i> , 2014, 113, 085701.	2.9	36
45	Influence of liquid media on lifetime predictions of nitrile rubber. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	21
46	Effect of Regioisomerism on the Local Dynamics of Polychlorostyrene. <i>Macromolecules</i> , 2014, 47, 4087-4093.	2.2	8
47	Structure Characterization in the Science and Technology of Elastomers. , 2013, , 115-166.		2
48	Rheological Behavior and Processing of Unvulcanized Rubber. , 2013, , 285-336.		4
49	Temperature Dependence of the Johari-Goldstein Relaxation in Poly(methyl methacrylate) and Poly(thiomethyl methacrylate). <i>Macromolecules</i> , 2013, 46, 330-334.	2.2	31
50	Reentanglement Kinetics in Polyisobutylene. <i>Macromolecules</i> , 2013, 46, 9403-9408.	2.2	32
51	Limits to Poisson's ratio in isotropic materials—general result for arbitrary deformation. <i>Physica Scripta</i> , 2013, 87, 055404.	1.2	40
52	Density Scaling of the Structural and Johari-Goldstein Secondary Relaxations in Poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	2.2	29
53	Factors influencing the ballistic impact resistance of elastomer-coated metal substrates. <i>Philosophical Magazine</i> , 2013, 93, 468-477.	0.7	48
54	Are polar liquids less simple?. <i>Journal of Chemical Physics</i> , 2013, 138, 12A502.	1.2	15

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55	Strength Enhancement in Miscible Blends of Butyl Rubber and Polyisobutylene. <i>Macromolecules</i> , 2013, 46, 2818-2822.	2.2	24
56	Space-Dependent Dynamics in 1,4-Polybutadiene Nanocomposite. <i>Macromolecules</i> , 2013, 46, 6667-6669.	2.2	30
57	UNCONVENTIONAL RUBBER NETWORKS: CIRCUMVENTING THE COMPROMISE BETWEEN STIFFNESS AND STRENGTH. <i>Rubber Chemistry and Technology</i> , 2013, 86, 351-366.	0.6	9
58	Failure of classical elasticity in auxetic foams. <i>AIP Advances</i> , 2013, 3, .	0.6	8
59	Characteristics of the Johari-Goldstein process in rigid asymmetric molecules. <i>Physical Review E</i> , 2013, 88, 042307.	0.8	22
60	Effect of binding to carbon black on the dynamics of 1,4-polybutadiene. <i>Journal of Chemical Physics</i> , 2013, 139, 134905.	1.2	13
61	GLASS TRANSITION IN RUBBERY MATERIALS. <i>Rubber Chemistry and Technology</i> , 2012, 85, 313-326.	0.6	16
62	Tracking of Proton Transfer Reaction in Supercooled RNA Nucleoside. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2288-2292.	2.1	11
63	Molecular dynamics simulation of the Johari-Goldstein relaxation in a molecular liquid. <i>Physical Review E</i> , 2012, 86, 020501.	0.8	22
64	Microstructure and Segmental Dynamics of Polyurea under Uniaxial Deformation. <i>Macromolecules</i> , 2012, 45, 3581-3589.	2.2	105
65	Quantifying the Structural Dynamics of Pharmaceuticals in the Glassy State. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1238-1241.	2.1	48
66	Volumetric, dielectric, calorimetric and X-ray studies of smectogenic 10PBO8 at atmospheric and elevated pressures. <i>Liquid Crystals</i> , 2012, 39, 993-1001.	0.9	10
67	Nanofiller reinforcement of elastomeric polyurea. <i>Polymer</i> , 2012, 53, 1282-1287.	1.8	55
68	Predicting the density-scaling exponent of a glass-forming liquid from Prigogine's Defay ratio measurements. <i>Nature Physics</i> , 2011, 7, 816-821.	6.5	122
69	Relaxation Dynamics of Poly(methyl acrylate) at Elevated Pressure. <i>Macromolecules</i> , 2011, 44, 6928-6934.	2.2	21
70	Phase Diagram and Dynamics of the Liquid Crystal Isopentylcyanobiphenyl (5*CB). <i>Journal of Physical Chemistry B</i> , 2011, 115, 6437-6444.	1.2	13
71	Dynamic Heterogeneity and Density Scaling in 1,4-Polyisoprene. <i>Macromolecules</i> , 2011, 44, 1149-1155.	2.2	41
72	Connection between dynamics and thermodynamics of liquids on the melting line. <i>Physical Review E</i> , 2011, 83, 031504.	0.8	30

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73	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
74	Aging of a low molecular weight poly(methyl methacrylate). Journal of Non-Crystalline Solids, 2011, 357, 282-285.	1.5	33
75	Heterogeneous slow dynamics and the interaction potential of glass-forming liquids. Journal of Non-Crystalline Solids, 2011, 357, 397-400.	1.5	13
76	The role of the isothermal bulk modulus in the molecular dynamics of super-cooled liquids. Journal of Chemical Physics, 2011, 135, 244508.	1.2	1
77	Comparison of the transient stress-strain response of rubber to its linear dynamic behavior. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1195-1202.	2.4	3
78	STRENGTH ENHANCEMENT FROM HETEROGENEOUS NETWORKS OF ETHYLENE-PROPYLENE/ETHYLENE-PROPYLENE-DIENE. Rubber Chemistry and Technology, 2011, 84, 520-526.	0.6	12
79	FLOCCULATION, REINFORCEMENT, AND GLASS TRANSITION EFFECTS IN SILICA-FILLED STYRENE-BUTADIENE RUBBER. Rubber Chemistry and Technology, 2011, 84, 507-519.	0.6	93
80	Density-scaling and the Prigogine-Defay ratio in liquids. Journal of Chemical Physics, 2011, 135, 224501.	1.2	23
81	Comparing dynamic correlation lengths from an approximation to the four-point dynamic susceptibility and from the picosecond vibrational dynamics. Physical Review E, 2011, 84, 042501.	0.8	21
82	On the density scaling of liquid dynamics. Journal of Chemical Physics, 2011, 134, 044504.	1.2	76
83	Response to "Comment on paper "The bulk modulus and Poisson's ratio of incompressible materials" Journal of Sound and Vibration, 2010, 329, 368-369.	2.1	4
84	Segmental dynamics of polyurea: Effect of stoichiometry. Polymer, 2010, 51, 178-184.	1.8	127
85	Elastomer-steel laminate armor. Composite Structures, 2010, 92, 1059-1064.	3.1	134
86	Effect of crosslinking on the secondary relaxation in polyvinylethylene. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 582-587.	2.4	20
87	Theoretical implications of the elastic modulus discontinuity in rubber networks. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 1795-1798.	2.4	3
88	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
89	Correlation of nonexponentiality with dynamic heterogeneity from four-point dynamic susceptibility $\chi_4(t)$ and its approximation $\chi_T(t)$. Journal of Chemical Physics, 2010, 133, 124507.	1.2	38
90	Dielectric and mechanical relaxation in isooctylcyanobiphenyl (8*OCB). Journal of Physics Condensed Matter, 2010, 22, 235101.	0.7	11

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91	Relaxation Phenomena in Vitrifying Polymers and Molecular Liquids. <i>Macromolecules</i> , 2010, 43, 7875-7890.	2.2	124
92	Clarifying the Molecular Weight Dependence of the Segmental Dynamics of Polybutadiene. <i>Macromolecules</i> , 2010, 43, 2904-2909.	2.2	23
93	Reorientational Relaxation Time at the Onset of Intermolecular Cooperativity. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2010, , 53-61.	0.5	0
94	Aging of the Secondary Relaxation to Probe Structural Relaxation in the Glassy State. <i>Physical Review Letters</i> , 2009, 102, 035701.	2.9	139
95	Extrapolating deformation behaviour of rubber to high rates and high pressures. <i>Plastics, Rubber and Composites</i> , 2009, 38, 333-336.	0.9	1
96	Density scaling in viscous liquids: From relaxation times to four-point susceptibilities. <i>Journal of Chemical Physics</i> , 2009, 131, 151103.	1.2	49
97	Pressure-energy correlations and thermodynamic scaling in viscous Lennard-Jones liquids. <i>Journal of Chemical Physics</i> , 2009, 130, 014508.	1.2	63
98	Vagaries of elastomer service life predictions. <i>Plastics, Rubber and Composites</i> , 2009, 38, 349-354.	0.9	11
99	A theoretical analysis of rheodielectric response of type- α polymer chains. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1039-1057.	2.4	18
100	Density Scaling and Dynamic Correlations in Viscous Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 13134-13137.	1.2	33
101	Anomalous properties of the local dynamics in polymer glasses. <i>Journal of Chemical Physics</i> , 2009, 131, 114501.	1.2	42
102	On the pressure dependence of the fragility of glycerol. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 332101.	0.7	33
103	Pressure-induced polymerization of tetraethylene glycol dimethacrylate. <i>Journal of Polymer Science Part A</i> , 2008, 46, 3795-3801.	2.5	22
104	Polyisobutylene: A most unusual polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 1390-1399.	2.4	86
105	The bulk modulus and Poisson's ratio of "incompressible" materials. <i>Journal of Sound and Vibration</i> , 2008, 312, 572-575.	2.1	215
106	Thermodynamic Scaling of Diffusion in Supercooled Lennard-Jones Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1329-1332.	1.2	151
107	Characteristic relaxation times and their invariance to thermodynamic conditions. <i>Soft Matter</i> , 2008, 4, 2316.	1.2	114
108	Effect of Silica Nanoparticles on the Local Segmental Dynamics in Poly(vinyl acetate). <i>Macromolecules</i> , 2008, 41, 1289-1296.	2.2	159

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109	Structure Evolution in a Polyurea Segmented Block Copolymer Because of Mechanical Deformation. <i>Macromolecules</i> , 2008, 41, 7543-7548.	2.2	89
110	Interaction Potential in Nematogenic 6CHBT. <i>Journal of Physical Chemistry B</i> , 2008, 112, 16008-16011.	1.2	21
111	Thermodynamic scaling and the characteristic relaxation time at the phase transition of liquid crystals. <i>Journal of Chemical Physics</i> , 2008, 128, 224506.	1.2	39
112	Effect of Crosslinking on Segmental and Secondary Dynamics of Polyvinylethylene. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
113	Effect of Silica Nanoparticles on the Local Segmental Dynamics in Polyvinylacetate. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	1
114	Glass Transition and Interfacial Segmental Dynamics in Polymer-Particle Composites. <i>Rubber Chemistry and Technology</i> , 2008, 81, 506-522.	0.6	153
115	Guides to solving the glass transition problem. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 244125.	0.7	22
116	Role of hydrogen bonds in the supercooled dynamics of glass-forming liquids at high pressures. <i>Physical Review B</i> , 2008, 77, .	1.1	50
117	Thermodynamic analysis of the low frequency relaxation time in the smectic A and C phases of a liquid crystal. <i>Journal of Chemical Physics</i> , 2007, 127, 094901.	1.2	17
118	Effect of chain length on fragility and thermodynamic scaling of the local segmental dynamics in poly(methylmethacrylate). <i>Journal of Chemical Physics</i> , 2007, 126, 184903.	1.2	51
119	Entropy basis for the thermodynamic scaling of the dynamics of o-terphenyl. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 205118.	0.7	27
120	Impact-induced glass transition in elastomeric coatings. <i>Applied Physics Letters</i> , 2007, 90, 221910.	1.5	146
121	Comment on "Correlations between isobaric and isochoric fragilities and thermodynamical scaling exponent for glass-forming liquids". <i>Physical Review E</i> , 2007, 76, 013501; author reply 013502.	0.8	4
122	Fragility and the dynamic crossover in lubricants. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2007, 221, 801-811.	1.0	30
123	Dielectric relaxation of α -tocopherol acetate (vitamin E). <i>Physical Review E</i> , 2007, 75, 011903.	0.8	14
124	The effect of thermodynamic variables on polymer chain dynamics. <i>Current Opinion in Solid State and Materials Science</i> , 2007, 11, 41-46.	5.6	1
125	An equation for the description of volume and temperature dependences of the dynamics of supercooled liquids and polymer melts. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3936-3939.	1.5	81
126	Invariance of the local segmental relaxation dispersion in polycyclohexylmethacrylate/poly- α -methylstyrene blends. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 3996-4000.	1.5	4

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127	Effect of entropy on the dynamics of supercooled liquids: new results from high pressure data. <i>Philosophical Magazine</i> , 2007, 87, 459-467.	0.7	26
128	Dynamics of Poly(cyclohexyl methacrylate): Neat and in Blends with Poly(α -methylstyrene). <i>Macromolecules</i> , 2007, 40, 3631-3639.	2.2	27
129	Effect of hydrostatic pressure on the viscoelastic response of polyurea. <i>Polymer</i> , 2007, 48, 5747-5752.	1.8	85
130	The nearly constant loss, Johari-Goldstein β -relaxation, and α -relaxation of 1,4-polybutadiene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 342-348.	2.4	17
131	High strain rate mechanical behavior of polyurea. <i>Polymer</i> , 2007, 48, 574-578.	1.8	265
132	What Can We Learn by Squeezing a Liquid?. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11491-11495.	1.2	23
133	Comment on "A Molecular Dynamics Simulation Study of Relaxation Processes in the Dynamical Fast Component of Miscible Polymer Blends", <i>Macromolecules</i> , 2006, 39, 8543-8543.	2.2	15
134	Dynamic Heterogeneity in Poly(vinyl methyl ether)/Poly(2-chlorostyrene) Blends. <i>Macromolecules</i> , 2006, 39, 3581-3587.	2.2	35
135	Scaling of the local dynamics and the intermolecular potential. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4895-4899.	1.5	43
136	Isobaric and isochoric properties of decahydroisoquinoline, an extremely fragile glass-former. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4905-4909.	1.5	17
137	Volume effects on the glass transition dynamics. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4910-4914.	1.5	23
138	Recovery of Shear-Modified Polybutadiene Solutions. <i>Rubber Chemistry and Technology</i> , 2006, 79, 267-280.	0.6	11
139	Enthalpy relaxation and fragility in polychlorinated biphenyls. <i>Journal of Thermal Analysis and Calorimetry</i> , 2006, 83, 87-90.	2.0	12
140	Mechanical Behavior of Rubber at High Strain Rates. <i>Rubber Chemistry and Technology</i> , 2006, 79, 429-459.	0.6	78
141	Thermodynamic interpretation of the scaling of the dynamics of supercooled liquids. <i>Journal of Chemical Physics</i> , 2006, 125, 014505.	1.2	168
142	Thermodynamic scaling of the viscosity of van der Waals, H-bonded, and ionic liquids. <i>Journal of Chemical Physics</i> , 2006, 125, 124508.	1.2	236
143	Hydrogen bonding and secondary relaxations in propylene glycol trimer. <i>Physical Review B</i> , 2005, 72, .	1.1	18
144	Why liquids are fragile. <i>Physical Review E</i> , 2005, 72, 031503.	0.8	63

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145	Effect of chemical structure on the isobaric and isochoric fragility in polychlorinated biphenyls. <i>Journal of Chemical Physics</i> , 2005, 122, 134505.	1.2	34
146	Isobaric and isochoric fragilities and the influence of volume on the temperature dependence of local segmental relaxation in polyvinylethylene networks. <i>Journal of Chemical Physics</i> , 2005, 123, 204905.	1.2	8
147	Primary and secondary relaxations in bis-5-hydroxypentylphthalate. <i>Journal of Chemical Physics</i> , 2005, 122, 084511.	1.2	13
148	The Role of Density and Temperature in the Dynamics of Polymer Blends. <i>Macromolecules</i> , 2005, 38, 8729-8733.	2.2	36
149	Temperature and Density Effects on the Local Segmental and Global Chain Dynamics of Poly(oxybutylene). <i>Macromolecules</i> , 2005, 38, 1779-1788.	2.2	75
150	Volume and Temperature Dependences of the Global and Segmental Dynamics in Polymers: A Functional Forms and Implications for the Glass Transition. <i>Macromolecules</i> , 2005, 38, 4363-4370.	2.2	53
151	Density scaling of the dynamics of vitrifying liquids and its relationship to the dynamic crossover. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2581-2587.	1.5	35
152	Scaling of the supercooled dynamics and its relation to the pressure dependences of the dynamic crossover and the fragility of glass formers. <i>Physical Review B</i> , 2005, 71, .	1.1	150
153	Structure Characterization in the Science and Technology of Elastomers. , 2005, , 105-155.		4
154	Do Theories of the Glass Transition, in which the Structural Relaxation Time Does Not Define the Dispersion of the Structural Relaxation, Need Revision?. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17356-17360.	1.2	210
155	Supercooled dynamics of glass-forming liquids and polymers under hydrostatic pressure. <i>Reports on Progress in Physics</i> , 2005, 68, 1405-1478.	8.1	637
156	Effect of large hydrostatic pressure on the dielectric loss spectrum of type-A glass formers. <i>Physical Review E</i> , 2004, 69, 050501.	0.8	43
157	Viscosity at the Dynamic Crossover in o-Terphenyl and Salol under High Pressure. <i>Physical Review Letters</i> , 2004, 92, 245702.	2.9	72
158	Adam-Gibbs model for the supercooled dynamics in the ortho-terphenyl ortho-phenylphenol mixture. <i>Journal of Chemical Physics</i> , 2004, 120, 10640-10646.	1.2	53
159	Johari-Goldstein Relaxations during Physical Aging of Propylene Glycol Oligomers under High Pressure. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	5
160	Comment on: "Disentangling density and temperature effects in the viscous slowing down of glass forming liquids" [J. Chem. Phys. 120, 6135 (2004)]. <i>Journal of Chemical Physics</i> , 2004, 121, 11503.	1.2	23
161	Scaling of the segmental relaxation times of polymers and its relation to the thermal expansivity. <i>Colloid and Polymer Science</i> , 2004, 283, 107-110.	1.0	62
162	Local segmental relaxation in bidisperse polystyrenes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 2604-2611.	2.4	22

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163	Effects of the volume and temperature on the global and segmental dynamics in poly(propylene) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.4	56
164	Unusual Component Dynamics in Poly(ethylene oxide)/Poly(methyl methacrylate) Blends As Probed by Deuterium NMR. <i>Macromolecules</i> , 2004, 37, 2817-2822.	2.2	49
165	Observation of Chain Dynamics in Depolarized Light Scattering Spectra of Polymers. <i>Macromolecules</i> , 2004, 37, 9273-9278.	2.2	11
166	Reentanglement Kinetics in Sheared Polybutadiene Solutions. <i>Macromolecules</i> , 2004, 37, 10018-10022.	2.2	49
167	Evolution of the Dynamics in 1,4-Polyisoprene from a Nearly Constant Loss to a Johari-Goldstein-Relaxation to the α -Relaxation. <i>Macromolecules</i> , 2004, 37, 2630-2635.	2.2	83
168	Volume and temperature as control parameters for the dielectric β relaxation of polymers and molecular glass formers. <i>Philosophical Magazine</i> , 2004, 84, 1573-1581.	0.7	58
169	Excess wing in the dielectric loss spectra of propylene glycol oligomers at elevated pressure. <i>Physical Review B</i> , 2004, 69, .	1.1	77
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