Gregory B Mckenna

List of Publications by Year
in descending order

279 papers	15,107 citations	22153 59 h-index	22166 113 g-index
290 all docs	290 docs citations	290 times ranked	8277 citing authors

#	Article	IF	Citations
1	Relaxation in glassforming liquids and amorphous solids. Journal of Applied Physics, 2000, 88, 3113-3157.	2.5	1,999
2	Effects of confinement on material behaviour at the nanometre size scale. Journal of Physics Condensed Matter, 2005, 17, R461-R524.	1.8	981
3	The melting behavior of organic materials confined in porous solids. Journal of Chemical Physics, 1990, 93, 9002-9011.	3.0	776
4	The glass transition of organic liquids confined to small pores. Journal of Non-Crystalline Solids, 1991, 131-133, 221-224.	3.1	394
5	Correlation between dynamic fragility and glass transition temperature for different classes of glass forming liquids. Journal of Non-Crystalline Solids, 2006, 352, 2977-2985.	3.1	313
6	Vitrification and Crystallization of Organic Liquids Confined to Nanoscale Pores. Chemistry of Materials, 1996, 8, 2128-2137.	6.7	278
7	New insights into the fragility dilemma in liquids. Journal of Chemical Physics, 2001, 114, 5621-5630.	3.0	275
8	Rheological Measurements of the Thermoviscoelastic Response of Ultrathin Polymer Films. Science, 2005, 307, 1760-1763.	12.6	266
9	Arrhenius-type temperature dependence of the segmental relaxation below Tg. Journal of Chemical Physics, 1999, 110, 11054-11060.	3.0	252
10	Using 20-million-year-old amber to test the super-Arrhenius behaviour of glass-forming systems. Nature Communications, 2013, 4, 1783.	12.8	216
11	Organogels and Aerogels of Racemic and Chiral 12-Hydroxyoctadecanoic Acid. Langmuir, 1994, 10, 3406-3418.	3.5	204
12	Dilute solution characterization of cyclic polystyrene molecules and their zero-shear viscosity in the melt. Macromolecules, 1987, 20, 498-512.	4.8	201
13	Size and confinement effects on the glass transition behavior of polystyrene/o-terphenyl polymer solutions. Physical Review B, 2000, 61, 6667-6676.	3.2	184
14	Linear Rheological Response of a Series of Densely Branched Brush Polymers. Macromolecules, 2011, 44, 6935-6943.	4.8	184
15	Modeling the evolution of the dynamic mechanical properties of a commercial epoxy during cure after gelation. Journal of Applied Polymer Science, 2000, 76, 495-508.	2.6	174
16	Glass Formation and Glassy Behavior. , 1989, , 311-362.		164
17	Large deformation response of polycarbonate: Time-temperature, time-aging time, and time-strain superposition. Polymer Engineering and Science, 1997, 37, 1485-1495.	3.1	162
18	Mechanical rejuvenation in polymer glasses: fact or fallacy?. Journal of Physics Condensed Matter, 2003, 15, S737-S763.	1.8	162

#	Article	IF	Citations
19	A study of the linear viscoelastic properties of cyclic polystyrenes using creep and recovery measurements. Macromolecules, 1989, 22, 1834-1852.	4.8	158
20	Effect of crosslink density on physical ageing of epoxy networks. Polymer, 1988, 29, 1812-1817.	3.8	145
21	<i>50th Anniversary Perspective</i>: Challenges in the Dynamics and Kinetics of Glass-Forming Polymers. Macromolecules, 2017, 50, 6333-6361.	4.8	132
22	Calorimetric glass transition temperature and absolute heat capacity of polystyrene ultrathin films. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3518-3527.	2.1	108
23	Diverging views on glass transition. Nature Physics, 2008, 4, 673-673.	16.7	105
24	The evolution of material properties during physical aging. Polymer Engineering and Science, 1995, 35, 403-410.	3.1	104
25	Creep behavior of ultraâ€‘thin polymer films. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 1952-1965.	2.1	104
26	Volume recovery in epoxy glasses subjected to torsional deformations: the question of rejuvenation. Polymer, 1991, 32, 2377-2381.	3.8	98
27	The physical ageing response of an epoxy glass subjected to large stresses. Polymer, 1990, 31, 423-430.	3.8	97
28	High strain rate mechanical properties of a cross-linked epoxy across the glass transition. Polymer, 2013, 54, 7048-7057.	3.8	94
29	Enthalpy recovery of a glass-forming liquid constrained in a nanoporous matrix: Negative pressure effects. European Physical Journal E, 2002, 8, 209-216.	1.6	92
30	Hard-Elastic fibers. (A review of a novel state for crystalline polymers). Journal of Polymer Science Macromolecular Reviews, 1976, 11, 209-275.	1.9	91
31	Effects of flexural rigidity of plates on bone healing.. Journal of Bone and Joint Surgery - Series A, 1979, 61, 866-872.	3.0	89
32	Swelling in crosslinked natural rubber: experimental evidence of the crosslink density dependence of Ï‡. Polymer, 1990, 31, 1937-1945.	3.8	87
33	Physical aging of poly(methyl methacrylate) in the nonlinear range: Torque and normal force measurements. Polymer Engineering and Science, 1984, 24, 1138-1141.	3.1	85
34	Thermoreversible gelation of isotactic polystyrene: thermodynamics and phase diagrams. Macromolecules, 1988, 21, 1752-1756.	4.8	83
35	Rheological Investigation of Polybutadienes Having Different Microstructures over a Large Temperature Range. Macromolecules, 1995, 28, 8552-8562.	4.8	83
36	Molecular weight and concentration dependences of the terminal relaxation time and viscosity of entangled polymer solutions. Macromolecules, 1987, 20, 2250-2256.	4.8	82

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37	Influence of physical ageing on the yield response of model DGEBA/poly(propylene oxide) epoxy glasses. Polymer, 1992, 33, 2103-2113.	3.8	81
38	Dynamic shear modulus of glycerol: Corrections due to instrument compliance. Journal of Chemical Physics, 2006, 125, 214507.	3.0	81
39	The measurement of mechanical properties of glycerol, m-toluidine, and sucrose benzoate under consideration of corrected rheometer compliance: An in-depth study and review. Journal of Chemical Physics, 2008, 129, 074502.	3.0	79
40	Relaxation of crosslinked networks: theoretical models and apparent power law behaviour. Polymer, 1988, 29, 2027-2032.	3.8	73
41	Dynamic fragility in polymers: A comparison in isobaric and isochoric conditions. Journal of Chemical Physics, 2002, 116, 3925-3934.	3.0	73
42	Rubber modeling using uniaxial test data. Journal of Applied Polymer Science, 2001, 81, 837-848.	2.6	72
43	Shear stress relaxation and physical aging study on simple glass-forming materials. Journal of Chemical Physics, 2005, 123, 174507.	3.0	70
44	Dramatic stiffening of ultrathin polymer films in the rubbery regime. European Physical Journal E, 2006, 20, 143-150.	1.6	70
45	Temperature divergence of the dynamics of a poly(vinyl acetate) glass: Dielectric vs. mechanical behaviors. Journal of Chemical Physics, 2012, 136, 154901.	3.0	69
46	Exceptional Property Changes in Ultrathin Films of Polycarbonate: Glass Temperature, Rubbery Stiffening, and Flow. Macromolecules, 2012, 45, 2453-2459.	4.8	69
47	Neutron Scattering Properties of Randomly Cross-Linked Polyisoprene Gels. Macromolecules, 2000, 33, 5215-5220.	4.8	68
48	Stress relaxation experiments in polycarbonate: A comparison of volume changes for two commercial grades. Polymer Engineering and Science, 1997, 37, 1469-1474.	3.1	67
49	Mechanical and Swelling Behaviors of Rubber: A Comparison of Some Molecular Models with Experiment. Mathematics and Mechanics of Solids, 1999, 4, 139-167.	2.4	67
50	Differences in the molecular weight and the temperature dependences of self-diffusion and zero shear viscosity in linear polyethylene and hydrogenated polybutadiene. Polymer, 1985, 26, 1651-1653.	3.8	66
51	Effect of crosslinks on the thermodynamics of poly(vinyl alcohol) hydrogels. Polymer, 1994, 35, 5737-5742.	3.8	66
52	Chain length dependence of the thermodynamic properties of linear and cyclic alkanes and polymers. Journal of Chemical Physics, 2005, 122, 084907.	3.0	66
53	When Ends Meet: Circular DNA Stretches Differently in Elongational Flows. Macromolecules, 2015, 48, 5997-6001.	4.8	66
54	Forced assembly by multilayer coextrusion to create oriented graphene reinforced polymer nanocomposites. Polymer, 2014, 55, 248-257.	3.8	65

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55	Nanosphere Embedding into Polymer Surfaces: A Viscoelastic Contact Mechanics Analysis. Physical Review Letters, 2005, 94, 076103.	7.8	64
56	Physical Aging of Amorphous PEN:Â Isothermal, Isochronal and Isostructural Results. Macromolecules, 2000, 33, 3065-3076.	4.8	63
57	Correlation between Molecular Mobility and Physical Stability in Pharmaceutical Glasses. Molecular Pharmaceutics, 2016, 13, 1267-1277.	4.6	63
58	Dynamics of polybutadienes with different microstructures. 2. Dielectric response and comparisons with rheological behavior. Journal of Chemical Physics, 1997, 107, 3645-3655.	3.0	62
59	Experiments on the elasticity of dry and swollen networks: implications for the Frenkel-Flory-Rehner hypothesis. Macromolecules, 1989, 22, 4507-4512.	4.8	61
60	Glass transition temperature of thin polycarbonate films measured by flash differential scanning calorimetry. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1462-1468.	2.1	59
61	Structural Recovery in a Model Epoxy:Â Comparison of Responses after Temperature and Relative Humidity Jumps. Macromolecules, 2003, 36, 2387-2396.	4.8	57
62	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. Journal of Rheology, 2013, 57, 1411-1428.	2.6	57
63	A torsional dilatometer for volume change measurements on deformed glasses: Instrument description and measurements on equilibrated glasses. Journal of Rheology, 1990, 34, 813-839.	2.6	56
64	Instability of entangled polymers in cone and plate rheometry. Rheologica Acta, 2007, 46, 877-888.	2.4	55
65	Interpretation of the dynamic heat capacity observed in glass-forming liquids. Journal of Chemical Physics, 1997, 107, 8678-8685.	3.0	54
66	Soft colloidal matter: A phenomenological comparison of the aging and mechanical responses with those of molecular glasses. Journal of Rheology, 2009, 53, 489-516.	2.6	54
67	Viscoelastic and Glass Transition Properties of Ultrathin Polystyrene Films by Dewetting from Liquid Glycerol. Macromolecules, 2013, 46, 2485-2495.	4.8	54
68	Nonlinear Viscoelastic Behavior of Poly(methyl Methacrylate) in Torsion. Journal of Rheology, 1979, 23, 151-166.	2.6	53
69	Signatures of Structural Recovery in Colloidal Glasses. Physical Review Letters, 2011, 106, 095701.	7.8	53
70	The nonlinear viscoelastic response and apparent rejuvenation of an epoxy glass. Journal of Rheology, 1995, 39, 471-497.	2.6	52
71	Isochoric and isobaric glass formation: Similarities and differences. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 1561-1573.	2.1	51
72	Mechanical and swelling behaviour of well characterized polybutadiene networks. Polymer, 1986, 27, 1368-1376.	3.8	50

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73	Considering Viscoelastic Micromechanics for the Reinforcement of Graphene Polymer Nanocomposites. ACS Macro Letters, 2012, 1, 388-391.	4.8	50
74	Title is missing!. Mechanics of Time-Dependent Materials, 2002, 6, 207-229.	4.4	49
75	ConfitÂIII. Summary and perspectives on dynamics in confinement. European Physical Journal: Special Topics, 2007, 141, 291-301.	2.6	49
76	Ultrathin Polymer Films: Rubbery Stiffening, Fragility, and <i>T</i>_g Reduction. Macromolecules, 2015, 48, 6329-6336.	4.8	49
77	Accumulating evidence for non-diverging time-scales in glass-forming fluids. Journal of Non-Crystalline Solids, 2015, 407, 3-13.	3.1	49
78	Finite Step Rate Corrections in Stress Relaxation Experiments: A Comparison of Two Methods. Mechanics of Time-Dependent Materials, 2004, 8, 17-37.	4.4	48
79	Relating creep and creep rupture in PMMA using a reduced variable approach. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 1667-1677.	2.1	47
80	Dilatometric evidence for the apparent decoupling of glassy structure from the mechanical stress field. Journal of Non-Crystalline Solids, 1994, 172-174, 756-764.	3.1	46
81	Novel nanobubble inflation method for determining the viscoelastic properties of ultrathin polymer films. Review of Scientific Instruments, 2007, 78, 013901.	1.3	46
82	Physical aging of an epoxy subsequent to relative humidity jumps through the glass concentration. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 2107-2121.	2.1	45
83	Effect of molecular architecture on ring polymer dynamics in semidilute linear polymer solutions. Nature Communications, 2019, 10, 1753.	12.8	45
84	The glass transition: its measurement and underlying physics. Handbook of Thermal Analysis and Calorimetry, 2002, , 49-109.	1.6	44
85	Physical and chemical aging in PMMA and their effects on creep and creep rupture behavior. Journal of Polymer Science, Part B: Polymer Physics, 1990, 28, 1463-1473.	2.1	43
86	A Viscoelastic Model for Predicting Isotropic Residual Stresses in Thermosetting Materials: Effects of Processing Parameters. Journal of Composite Materials, 2001, 35, 826-848.	2.4	43
87	Superposition of small strains on large deformations as a probe of nonlinear response in polymers. Polymer Engineering and Science, 1986, 26, 725-729.	3.1	42
88	Equilibrium heat capacity of the glass-forming poly(Î±-methyl styrene) far below the Kauzmann temperature: The case of the missing glass transition. Journal of Chemical Physics, 2003, 119, 3590-3593.	3.0	42
89	Cure-induced and thermal stresses in a constrained epoxy resin. Composites Part A: Applied Science and Manufacturing, 2006, 37, 585-591.	7.6	42
90	A novel temperatureâ€step method to determine the glass transition temperature of ultrathin polymer films by liquid dewetting. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 1343-1349.	2.1	40

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91	Testing the paradigm of an ideal glass transition: Dynamics of an ultrastable polymeric glass. Science Advances, 2018, 4, eaau5423.	10.3	40
92	Viscoelastic response of epoxy glasses subjected to different thermal treatments. Polymer Engineering and Science, 1990, 30, 431-435.	3.1	39
93	The Ï„ -effective paradox revisited: an extended analysis of Kovacsâ€™ volume recovery data on poly(vinyl) Tj ETQq1 1 0.784314 rgBT /O	3.8	39
94	Status of our understanding of dynamics in confinement: Perspectives from Confit 2003. European Physical Journal E, 2003, 12, 191-194.	1.6	39
95	Nanoconfinement Effects on the Glass Transition and Crystallization Behaviors of Nifedipine. Molecular Pharmaceutics, 2019, 16, 856-866.	4.6	38
96	Unusual elastic behavior of ultrathin polymer films: Confinement-induced/molecular stiffening and surface tension effects. Journal of Chemical Physics, 2010, 132, .	3.0	37
97	Quantitative analysis of errors in TMDSC in the glass transition region. Thermochimica Acta, 2000, 348, 77-89.	2.7	36
98	The effect of the shear-thickening transition of model colloidal spheres on the sign of N1 and on the radial pressure profile in torsional shear flows. Journal of Rheology, 2006, 50, 293-311.	2.6	36
99	The effects of structural recovery and thermal lag in temperature-modulated DSC measurements. Thermochimica Acta, 1997, 307, 1-10.	2.7	35
100	Evaluation of the Dyre shoving model using dynamic data near the glass temperature. Journal of Chemical Physics, 2011, 134, 124902.	3.0	35
101	Substrate Effects on Glass Transition and Free Surface Viscoelasticity of Ultrathin Polystyrene Films. Macromolecules, 2014, 47, 8808-8818.	4.8	35
102	Glass Dynamics and Anomalous Aging in a Family of Ionic Liquids above the Glass Transition Temperature. Journal of Physical Chemistry B, 2010, 114, 15742-15752.	2.6	34
103	Elastic modulus and surface tension of a polyurethane rubber in nanometer thick films. Polymer, 2014, 55, 2725-2733.	3.8	34
104	Expanding the application of the van Gurp-Palmen plot: New insights into polymer melt rheology. Polymer, 2018, 155, 208-217.	3.8	34
105	Time-dependent failure in poly(methyl methacrylate) and polyethylene. Polymer, 1980, 21, 213-220.	3.8	33
106	On the Anomalous Freezing and Melting of Solvent Crystals in Swollen Gels of Natural Rubber. Rubber Chemistry and Technology, 1991, 64, 760-768.	1.2	33
107	Mechanical responses of a polymer graphene-sheet nano-sandwich. Polymer, 2014, 55, 4976-4982.	3.8	32
108	Interlaminar Effects in Fiber-Reinforced Plastics-A Review. Polymer-Plastics Technology and Engineering, 1975, 5, 23-53.	1.9	31

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109	Analysis of the development of isotropic residual stresses in a bismaleimide/spiro orthocarbonate thermosetting resin for composite materials. Journal of Applied Polymer Science, 2003, 88, 227-244.	2.6	31
110	Melting of solvents nanoconfined by polymers and networks. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3475-3486.	2.1	31
111	Viscoelastic properties and residual stresses in polyhedral oligomeric silsesquioxaneâ€reinforced epoxy matrices. Journal of Polymer Science, Part B: Polymer Physics, 2008, 46, 2719-2732.	2.1	31
112	The superposition of small deformations on large deformations: Measurements of the incremental relaxation modulus for a polyisobutylene solution. Journal of Polymer Science, Polymer Physics Edition, 1985, 23, 1647-1656.	1.0	30
113	An Ultrastable Polymeric Glass: Amorphous Fluoropolymer with Extreme Fictive Temperature Reduction by Vacuum Pyrolysis. Macromolecules, 2017, 50, 4562-4574.	4.8	30
114	Physical aging of nylon 66. Polymer Engineering and Science, 1994, 34, 1808-1814.	3.1	29
115	Experimental studies on cryogenic recycling of printed circuit board. International Journal of Advanced Manufacturing Technology, 2007, 34, 657-666.	3.0	29
116	Something about amber: Fictive temperature and glass transition temperature of extremely old glasses from copal to Triassic amber. Polymer, 2013, 54, 7041-7047.	3.8	29
117	Effect of chemical activity jumps on the viscoelastic behavior of an epoxy resin: Physical aging response in carbon dioxide pressure jumps. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2050-2064.	2.1	28
118	The stiffening of ultrathin polymer films in the rubbery regime: The relative contributions of membrane stress and surface tension. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2441-2448.	2.1	28
119	Effects of freeze-drying on the glass temperature of cyclic polystyrenes. Polymer, 2003, 44, 8025-8032.	3.8	27
120	Mechanical Hole Burning Spectroscopy: Evidence for Heterogeneous Dynamics in Polymer Systems. Physical Review Letters, 2005, 94, 157801.	7.8	27
121	Dynamics of a thermo-responsive microgel colloid near to the glass transition. Journal of Chemical Physics, 2014, 140, 054903.	3.0	27
122	Polymer Networks and Gels. , 2007, , 497-523.		27
123	A brief discussion: Thermodynamic and dynamic fragilities, non-divergent dynamics and the Prigogineâ€“Defay ratio. Journal of Non-Crystalline Solids, 2009, 355, 663-671.	3.1	26
124	Comparison of surface mechanical properties among linear and star polystyrenes: Surface softening and stiffening at different temperatures. Polymer, 2013, 54, 5928-5935.	3.8	26
125	LOOKING AT THE GLASS TRANSITION: CHALLENGES OF EXTREME TIME SCALES AND OTHER INTERESTING PROBLEMS. Rubber Chemistry and Technology, 2020, 93, 79-120.	1.2	26
126	A comparison of concentration-glasses and temperature-hyperquenched glasses: CO2-formed glass versus temperature-formed glass. Polymer, 2004, 45, 5629-5634.	3.8	25

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127	Unusual Surface Mechanical Properties of Poly(Î±-methylstyrene): Surface Softening and Stiffening at Different Temperatures. Macromolecules, 2012, 45, 9697-9706.	4.8	25
128	Dynamics and mechanics below the glass transition: The non-equilibrium state. Computational Materials Science, 1995, 4, 349-360.	3.0	24
129	Glassy states: Concentration glasses and temperature glasses compared. Journal of Non-Crystalline Solids, 2007, 353, 3820-3828.	3.1	24
130	Experimental evidence against the existence of an ideal glass transition. Journal of Non-Crystalline Solids, 2009, 355, 672-675.	3.1	24
131	Response to: Sufficiently entangled polymers do show shear strain localization at high enough Weissenberg numbersâ€: Journal of Rheology, 2014, 58, 1071-1082.	2.6	24
132	Long-term aging behaviors in a model soft colloidal system. Soft Matter, 2017, 13, 1396-1404.	2.7	24
133	Fragility of Polymeric Liquids: Correlations between Thermodynamic and Dynamic Properties. Materials Research Society Symposia Proceedings, 1996, 455, 171.	0.1	23
134	Linear Rheology of a Series of Second-Generation Dendronized Wedge Polymers. Macromolecules, 2019, 52, 2063-2074.	4.8	23
135	Mechanical properties of some fibre reinforced polymer composites after implantation as fracture fixation plates. Biomaterials, 1980, 1, 189-192.	11.4	22
136	Experiments on the small-strain behaviour of crosslinked natural rubber: 1. Torsion. Polymer, 1983, 24, 1495-1501.	3.8	22
137	A comparison of three different methods for measuring both normal stress differences of viscoelastic liquids in torsional rheometers. Rheologica Acta, 2009, 48, 191-200.	2.4	22
138	Evidence of surface softening in polymers and their nanocomposites as determined by spontaneous particle embedment. Polymer, 2011, 52, 6134-6145.	3.8	22
139	Mechanical spectral hole burning in polymer solutions: Comparison with large amplitude oscillatory shear fingerprinting. Journal of Rheology, 2014, 58, 43-62.	2.6	22
140	The apparent activation energy and dynamic fragility of ancient ambers. Polymer, 2014, 55, 2246-2253.	3.8	22
141	Physical aging and structural recovery in a colloidal glass subjected to volume-fraction jump conditions. Physical Review E, 2016, 93, 042603.	2.1	22
142	Soft matter: rubber and networks. Reports on Progress in Physics, 2018, 81, 066602.	20.1	22
143	Response of Carbon Black Filled Butyl Rubber to Cyclic Loading. Rubber Chemistry and Technology, 1981, 54, 718-733.	1.2	21
144	The effect of swelling on the elasticity of rubber: localization model description. Macromolecules, 1993, 26, 3282-3288.	4.8	21

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145	Physical aging kinetics of syndiotactic polystyrene as determined from creep behavior. Polymer Engineering and Science, 1997, 37, 1459-1468.	3.1	21
146	Comment on â€œThe properties of free polymer surfaces and their influence on the glass transition temperature of thin polystyrene filmsâ€• by J.S. Sharp, J.H. Teichroeb and J.A. Forrest. European Physical Journal E, 2007, 22, 281-286.	1.6	21
147	Degradation resistance of some candidate composite biomaterials. Journal of Biomedical Materials Research Part B, 1979, 13, 783-798.	3.1	20
148	An Analysis of the Corrections to the Normal Force Response for the Cone and Plate Geometry in Singleâ€Step Stress Relaxation Experiments. Journal of Rheology, 1989, 33, 69-91.	2.6	20
149	A new pressurizable dilatometer for measuring the time-dependent bulk modulus and pressure-volume-temperature properties of polymeric materials. Review of Scientific Instruments, 2009, 80, 053903.	1.3	20
150	Viscoelastic modeling of nanoindentation experiments: A multicurve method. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 633-639.	2.1	20
151	A novel nanoâ€bubble inflation method for determining the viscoelastic properties of ultrathin polymer films. Scanning, 2008, 30, 184-196.	1.5	19
152	Response to â€œComment on â€˜Temperature divergence of the dynamics of a poly(vinyl acetate) glass: Dielectric vs. mechanical behaviorsâ€™â€• [J. Chem. Phys. 139, 137101 (2013)]. Journal of Chemical Physics, 2013, 139, 137102.	3.0	19
153	Dynamics and rheology of ring-linear blend semidilute solutions in extensional flow: Single molecule experiments. Journal of Rheology, 2021, 65, 729-744.	2.6	19
154	The concentration dependence of the compression modulus of iostactic polystyrene/cis-decalin gels. Journal of Polymer Science, Part B: Polymer Physics, 1986, 24, 2499-2508.	2.1	18
155	The effects of solvent type on the concentration dependence of the compression modulus of thermoreversible isotactic polystyrene gels. Journal of Polymer Science, Part B: Polymer Physics, 1988, 26, 267-276.	2.1	18
156	Anomalies in the normal force measurement when using a force rebalance transducer. Journal of Rheology, 1996, 40, 323-334.	2.6	18
157	The craze initiation response of a polystyrene and a styrene-acrylonitrile copolymer during physical aging. Polymer Engineering and Science, 1997, 37, 1442-1448.	3.1	18
158	Nonlinear viscoelastic properties of branched polyethylene in reversing flows. Journal of Rheology, 2007, 51, 341-365.	2.6	18
159	Comparison of the physical aging behavior of a colloidal glass after shear melting and concentration jumps. Physical Review E, 2014, 90, 050301.	2.1	18
160	Aging in glasses subjected to large stresses and deformations. Journal of Non-Crystalline Solids, 1991, 131-133, 497-504.	3.1	17
161	A comparison of the thermodynamic stability and phase separation kinetics of polymer blends containing cyclic chains of high molecular weight. Macromolecules, 1992, 25, 3416-3423.	4.8	17
162	Relaxational features of supercooled and glassy m-toluidine. Journal of Non-Crystalline Solids, 2006, 352, 4729-4734.	3.1	17

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163	Deformation and flow of matter: Interrogating the physics of materials using rheological methods. Journal of Rheology, 2012, 56, 113-158.	2.6	17
164	Experiments on the small-strain behaviour of crosslinked natural rubber: 2. Extension and compression. Polymer, 1983, 24, 1502-1506.	3.8	16
165	Morphology of syndiotactic polystyrene as examined by small-angle X-ray scattering. Polymer Engineering and Science, 1997, 37, 1480-1484.	3.1	16
166	Slow dynamics of supercooled m-toluidine investigated by mechanical spectroscopy. Journal of Chemical Physics, 2005, 122, 114501.	3.0	16
167	Commentary on rheology of polymers in narrow gaps. European Physical Journal E, 2006, 19, 101-108.	1.6	16
168	The viscoelastic behavior of polymer/oligomer blends. Polymer, 2010, 51, 4899-4906.	3.8	16
169	Swelling Behavior of Cross-Linked Rubber: Explanation of the Elusive Peak in the Swelling Activity Parameter (Dilational Modulus). Macromolecules, 2012, 45, 2402-2410.	4.8	16
170	The linear rheological responses of wedgeâ€type polymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 899-906.	2.1	16
171	Startup shear of a highly entangled polystyrene solution deep into the nonlinear viscoelastic regime. Rheologica Acta, 2015, 54, 771-777.	2.4	16
172	Molecular simulation of nanocolloid rheology: Viscosity, viscoelasticity, and time-concentration superposition. Journal of Rheology, 2020, 64, 529-543.	2.6	16
173	The Normal Stress Response in Nonlinear Viscoelastic Materials: Some Experimental Findings. Journal of Rheology, 1980, 24, 367-377.	2.6	15
174	NMR study of gels of isotactic polystyrene and cis- or trans-decalin. Macromolecules, 1988, 21, 2418-2432.	4.8	15
175	Measurement of Thermal Conductivity using TMDSC: Solution to the Heat Flow Problem. Journal of Reinforced Plastics and Composites, 1999, 18, 559-571.	3.1	15
176	Errors induced in quartz crystal mass uptake measurements by nongravimetric effects: Considerations beyond the EerNisse caution. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 801-814.	2.1	15
177	Mechanical hole-burning spectroscopy: Demonstration of hole burning in the terminal relaxation regime. Physical Review B, 2006, 73, .	3.2	15
178	Physical aging and compressed exponential behaviors in a model soft colloidal system. Soft Matter, 2019, 15, 2336-2347.	2.7	15
179	Extension and Compression of Elastomeric Butt Joint Seals. Journal of Engineering Mechanics - ASCE, 1996, 122, 669-677.	2.9	14
180	Temperature and crosslinking effects on the swelling of poly(isoprene) in isopiestic conditions. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 817-826.	2.1	14

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