

# Mark D Ediger

## List of Publications by Year in descending order

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248  
papers

18,518  
citations

18887

64  
h-index

15698

129  
g-index

249  
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249  
docs citations

249  
times ranked

7541  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vapor deposition rate modifies anisotropic glassy structure of an anthracene-based organic semiconductor. <i>Journal of Chemical Physics</i> , 2022, 156, 014504.	1.2	8
2	A liquid with distinct metastable structures: Supercooled butyronitrile. <i>Journal of Chemical Physics</i> , 2022, 156, 044501.	1.2	3
3	Characterization of the Interfacial Orientation and Molecular Conformation in a Glass-Forming Organic Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 3455-3466.	4.0	5
4	Surface diffusion of a glassy discotic organic semiconductor and the surface mobility gradient of molecular glasses. <i>Journal of Chemical Physics</i> , 2022, 156, 094710.	1.2	7
5	Surface Diffusion Is Controlled by Bulk Fragility across All Glass Types. <i>Physical Review Letters</i> , 2022, 128, 075501.	2.9	13
6	Polyamorphism in vapor-deposited 2-methyltetrahydrofuran: A broadband dielectric relaxation study. <i>Journal of Chemical Physics</i> , 2021, 154, 024502.	1.2	8
7	Surface mobility in amorphous selenium and comparison with organic molecular glasses. <i>Journal of Chemical Physics</i> , 2021, 154, 074703.	1.2	8
8	Varying kinetic stability, icosahedral ordering, and mechanical properties of a model Zr-Cu-Al metallic glass by sputtering. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
9	Using Deposition Rate and Substrate Temperature to Manipulate Liquid Crystal-Like Order in a Vapor-Deposited Hexagonal Columnar Glass. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2761-2770.	1.2	17
10	Controlling the Columnar Order in a Discotic Liquid Crystal by Kinetic Arrest of Disc Tumbling. <i>Chemistry of Materials</i> , 2021, 33, 4757-4764.	3.2	13
11	Glass Dynamics Deep in the Energy Landscape. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9052-9068.	1.2	8
12	Stable Glasses of Organic Semiconductor Resist Crystallization. <i>Journal of Physical Chemistry B</i> , 2021, 125, 461-466.	1.2	7
13	Surface equilibration mechanism controls the molecular packing of glassy molecular semiconductors at organic interfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	11
14	Activation Entropy as a Key Factor Controlling the Memory Effect in Glasses. <i>Physical Review Letters</i> , 2020, 125, 135501.	2.9	25
15	JCP Emerging Investigator Special Collection 2019. <i>Journal of Chemical Physics</i> , 2020, 153, 110402.	1.2	2
16	Molecular Orientation Depth Profiles in Organic Glasses Using Polarized Resonant Soft X-ray Reflectivity. <i>Chemistry of Materials</i> , 2020, 32, 6295-6309.	3.2	10
17	Controlling Structure and Properties of Vapor-Deposited Glasses of Organic Semiconductors: Recent Advances and Challenges. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6935-6945.	2.1	38
18	How to "measure" a structural relaxation time that is too long to be measured?. <i>Journal of Chemical Physics</i> , 2020, 153, 044501.	1.2	22

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19	Physical vapor deposition of a polyamorphic system: Triphenyl phosphite. <i>Journal of Chemical Physics</i> , 2020, 153, 124511.	1.2	7
20	Rejuvenation Versus Overaging: The Effect of Cyclic Loading/Unloading on the Segmental Dynamics of Poly(methyl methacrylate) Glasses. <i>Macromolecules</i> , 2020, 53, 8467-8475.	2.2	6
21	Over What Length Scale Does an Inorganic Substrate Perturb the Structure of a Glassy Organic Semiconductor?. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 26717-26726.	4.0	22
22	Surface diffusion in glasses of rod-like molecules posaconazole and itraconazole: effect of interfacial molecular alignment and bulk penetration. <i>Soft Matter</i> , 2020, 16, 5062-5070.	1.2	33
23	Extreme Elasticity Anisotropy: Extreme Elasticity Anisotropy in Molecular Glasses ( <i>Adv. Funct. Mater.</i> ) Tj ETQq1 1 0,784314 rgBT /Overlo	7.8	19
24	Molecular Orientation for Vapor-Deposited Organic Glasses Follows Rate-Temperature Superposition: The Case of Posaconazole. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2505-2513.	1.2	19
25	Extreme Elasticity Anisotropy in Molecular Glasses. <i>Advanced Functional Materials</i> , 2020, 30, 2001481.	7.8	12
26	<i>In situ</i> observation of fast surface dynamics during the vapor-deposition of a stable organic glass. <i>Soft Matter</i> , 2020, 16, 10860-10864.	1.2	11
27	Enhanced Segmental Dynamics of Poly(lactic acid) Glasses during Constant Strain Rate Deformation. <i>Macromolecules</i> , 2019, 52, 6428-6437.	2.2	10
28	Vapor-Deposited Ethylbenzene Glasses Approach Ideal Glass Density. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4069-4075.	2.1	29
29	Vapor deposition of a nonmesogen prepares highly structured organic glasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 21421-21426.	3.3	30
30	Relationship between aged and vapor-deposited organic glasses: Secondary relaxations in methyl-toluolate. <i>Journal of Chemical Physics</i> , 2019, 151, 144502.	1.2	10
31	Linear Stress Relaxation and Probe Reorientation: Comparison of the Segmental Dynamics of Two Glassy Polymers during Physical Aging. <i>Macromolecules</i> , 2019, 52, 8177-8186.	2.2	8
32	Dielectric properties of vapor-deposited propylbenzenes. <i>Journal of Chemical Physics</i> , 2019, 151, 174503.	1.2	3
33	Generic packing motifs in vapor-deposited glasses of organic semiconductors. <i>Soft Matter</i> , 2019, 15, 7590-7595.	1.2	14
34	Anisotropic Vapor-Deposited Glasses: Hybrid Organic Solids. <i>Accounts of Chemical Research</i> , 2019, 52, 407-414.	7.6	67
35	Vapor-Deposited Glass Structure Determined by Deposition Rate-Substrate Temperature Superposition Principle. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3536-3542.	2.1	33
36	Ultrastable and polyamorphic states of vapor-deposited 2-methyltetrahydrofuran. <i>Journal of Chemical Physics</i> , 2019, 150, 214502.	1.2	12

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37	Dense Glass Packing Can Slow Reactions with an Atmospheric Gas. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10124-10130.	1.2	7
38	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq3 Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 164-170.	2.1	49
39	Effect of molecular size and hydrogen bonding on three surface-facilitated processes in molecular glasses: Surface diffusion, surface crystal growth, and formation of stable glasses by vapor deposition. <i>Journal of Chemical Physics</i> , 2019, 150, 024502.	1.2	19
40	Organic Glasses with Tunable Liquid-Crystalline Order. <i>Physical Review Letters</i> , 2018, 120, 055502.	2.9	38
41	Glasses of three alkyl phosphates show a range of kinetic stabilities when prepared by physical vapor deposition. <i>Journal of Chemical Physics</i> , 2018, 148, 174503.	1.2	12
42	Vapor-deposited organic glasses exhibit enhanced stability against photodegradation. <i>Soft Matter</i> , 2018, 14, 2827-2834.	1.2	10
43	Anisotropic organic glasses. <i>Current Opinion in Solid State and Materials Science</i> , 2018, 22, 49-57.	5.6	27
44	Tenfold increase in the photostability of an azobenzene guest in vapor-deposited glass mixtures. <i>Journal of Chemical Physics</i> , 2018, 149, 204503.	1.2	16
45	Direct Comparison of Probe Reorientation and Linear Mechanical Measurements of Segmental Dynamics in Glassy Poly(methyl methacrylate). <i>Macromolecules</i> , 2018, 51, 7785-7793.	2.2	8
46	Glass Structure Controls Crystal Polymorph Selection in Vapor-Deposited Films of 4,4'-Bis( <i>N</i> -carbazolyl)-1,1'-biphenyl. <i>Crystal Growth and Design</i> , 2018, 18, 5800-5807.	1.4	13
47	Reversing Strain Deformation Probes Mechanisms for Enhanced Segmental Mobility of Polymer Glasses. <i>Macromolecules</i> , 2017, 50, 1016-1026.	2.2	20
48	Highly Organized Smectic-like Packing in Vapor-Deposited Glasses of a Liquid Crystal. <i>Chemistry of Materials</i> , 2017, 29, 849-858.	3.2	30
49	Influence of Hydrogen Bonding on the Kinetic Stability of Vapor-Deposited Glasses of Triazine Derivatives. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2350-2358.	1.2	28
50	Nematic-like stable glasses without equilibrium liquid crystal phases. <i>Journal of Chemical Physics</i> , 2017, 146, 054503.	1.2	18
51	Influence of Vapor Deposition on Structural and Charge Transport Properties of Ethylbenzene Films. <i>ACS Central Science</i> , 2017, 3, 415-424.	5.3	21
52	Preface: Special Topic on Dynamics of Polymer Materials in Thin Films and Related Geometries. <i>Journal of Chemical Physics</i> , 2017, 146, 203001.	1.2	0
53	Surface transport mechanisms in molecular glasses probed by the exposure of nano-particles. <i>Journal of Chemical Physics</i> , 2017, 146, 203324.	1.2	3
54	Limited surface mobility inhibits stable glass formation for 2-ethyl-1-hexanol. <i>Journal of Chemical Physics</i> , 2017, 146, 203317.	1.2	21

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55	Vapor-Deposited Glasses with Long-Range Columnar Liquid Crystalline Order. <i>Chemistry of Materials</i> , 2017, 29, 9110-9119.	3.2	25
56	Modifying hydrogen-bonded structures by physical vapor deposition: 4-methyl-3-heptanol. <i>Journal of Chemical Physics</i> , 2017, 147, 194504.	1.2	9
57	Perspective: Highly stable vapor-deposited glasses. <i>Journal of Chemical Physics</i> , 2017, 147, 210901.	1.2	167
58	Influence of Molecular Shape on the Thermal Stability and Molecular Orientation of Vapor-Deposited Organic Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3380-3386.	2.1	62
59	Dynamics of supercooled liquid and plastic crystalline ethanol: Dielectric relaxation and AC nanocalorimetry distinguish structural $\alpha$ - and Debye relaxation processes. <i>Journal of Chemical Physics</i> , 2017, 147, 014502.	1.2	23
60	Influence of Hydrogen Bonding on the Surface Diffusion of Molecular Glasses: Comparison of Three Triazines. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7221-7227.	1.2	16
61	Comparison of mechanical and molecular measures of mobility during constant strain rate deformation of a PMMA glass. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 1957-1967.	2.4	19
62	Fluctuation Electron Microscopy and Computational Structure Refinement for the Structure of Amorphous Materials. <i>Microscopy and Microanalysis</i> , 2016, 22, 486-487.	0.2	1
63	Glass transition and stable glass formation of tetrachloromethane. <i>Journal of Chemical Physics</i> , 2016, 144, 244503.	1.2	23
64	Facets of glass physics. <i>Physics Today</i> , 2016, 69, 40-46.	0.3	132
65	Surface diffusion and surface crystal growth of <i>tris</i> -naphthyl benzene glasses. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	32
66	Vapor-deposited alcohol glasses reveal a wide range of kinetic stability. <i>Journal of Chemical Physics</i> , 2016, 145, 174506.	1.2	38
67	Photostability Can Be Significantly Modulated by Molecular Packing in Glasses. <i>Journal of the American Chemical Society</i> , 2016, 138, 11282-11289.	6.6	41
68	Age and structure of a model vapour-deposited glass. <i>Nature Communications</i> , 2016, 7, 13062.	5.8	39
69	Increasing the kinetic stability of bulk metallic glasses. <i>Acta Materialia</i> , 2016, 104, 25-32.	3.8	86
70	Vapor deposition of a smectic liquid crystal: highly anisotropic, homogeneous glasses with tunable molecular orientation. <i>Soft Matter</i> , 2016, 12, 2942-2947.	1.2	32
71	Substrate temperature controls molecular orientation in two-component vapor-deposited glasses. <i>Soft Matter</i> , 2016, 12, 3265-3270.	1.2	41
72	A molecular perspective on the yield and flow of polymer glasses: The role of enhanced segmental dynamics during active deformation. , 2016, , 357-374.		3

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73	Suppression of $\langle m \rangle^2$ Relaxation in Vapor-Deposited Ultrastable Glasses. <i>Physical Review Letters</i> , 2015, 115, 185501.	2.9	114
74	Vapor-deposited glasses of methyl- <i>m</i> -toluate: How uniform is stable glass transformation?. <i>Journal of Chemical Physics</i> , 2015, 143, 244509.	1.2	26
75	Structural Characterization of Vapor-Deposited Glasses of an Organic Hole Transport Material with X-ray Scattering. <i>Chemistry of Materials</i> , 2015, 27, 3341-3348.	3.2	78
76	Influence of Substrate Temperature on the Transformation Front Velocities That Determine Thermal Stability of Vapor-Deposited Glasses. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3875-3882.	1.2	22
77	Fluctuation Electron Microscopy Study of Medium-Range Packing Order in Ultrastable Indomethacin Glass Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1757, 32.	0.1	0
78	Tunable molecular orientation and elevated thermal stability of vapor-deposited organic semiconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4227-4232.	3.3	188
79	Photopatterning of Indomethacin Thin Films: a Solvent-Free Vapor-Deposited Photoresist. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 23398-23401.	4.0	2
80	How much time is needed to form a kinetically stable glass? AC calorimetric study of vapor-deposited glasses of ethylcyclohexane. <i>Journal of Chemical Physics</i> , 2015, 142, 054506.	1.2	60
81	Thermal stability of vapor-deposited stable glasses of an organic semiconductor. <i>Journal of Chemical Physics</i> , 2015, 142, 134504.	1.2	49
82	Effect of Temperature on Postyield Segmental Dynamics of Poly(methyl methacrylate) Glasses: Thermally Activated Transitions Are Important. <i>Macromolecules</i> , 2015, 48, 6736-6744.	2.2	22
83	Kinetic stability and heat capacity of vapor-deposited glasses of <i>o</i> -terphenyl. <i>Journal of Chemical Physics</i> , 2015, 143, 084511.	1.2	34
84	Fast Crystal Growth in <i>o</i> -Terphenyl Glasses: A Possible Role for Fracture and Surface Mobility. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10124-10130.	1.2	46
85	Orientational anisotropy in simulated vapor-deposited molecular glasses. <i>Journal of Chemical Physics</i> , 2015, 143, 094502.	1.2	59
86	Vapor-deposited glasses provide clearer view of two-level systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11232-11233.	3.3	14
87	Molecular modeling of vapor-deposited polymer glasses. <i>Journal of Chemical Physics</i> , 2014, 140, 204504.	1.2	32
88	Dynamics near Free Surfaces and the Glass Transition in Thin Polymer Films: A View to the Future. <i>Macromolecules</i> , 2014, 47, 471-478.	2.2	424
89	Measurement of Segmental Mobility during Constant Strain Rate Deformation of a Poly(methyl) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	62
90	Termination of Solid-State Crystal Growth in Molecular Glasses by Fluidity. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1705-1710.	2.1	32

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91	Fast Crystal Growth from Organic Glasses: Comparison of <i>o</i> -Terphenyl with its Structural Analogs. <i>Journal of Physical Chemistry B</i> , 2014, 118, 8203-8209.	1.2	20
92	Role of Fragility in the Formation of Highly Stable Organic Glasses. <i>Physical Review Letters</i> , 2014, 113, 045901.	2.9	66
93	Ultrastable glasses from in silico vapour deposition. <i>Nature Materials</i> , 2013, 12, 139-144.	13.3	213
94	<i>In situ</i> investigation of vapor-deposited glasses of toluene and ethylbenzene via alternating current chip-nanocalorimetry. <i>Journal of Chemical Physics</i> , 2013, 138, 024501.	1.2	65
95	Dynamics of glass-forming liquids. XVI. Observation of ultrastable glass transformation via dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2013, 138, 12A519.	1.2	35
96	Highly Stable Glasses of <i>cis</i> -Decalin and <i>cis/trans</i> -Decalin Mixtures. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12724-12733.	1.2	46
97	High-Throughput Ellipsometric Characterization of Vapor-Deposited Indomethacin Glasses. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15415-15425.	1.2	93
98	Model vapor-deposited glasses: Growth front and composition effects. <i>Journal of Chemical Physics</i> , 2013, 139, 144505.	1.2	79
99	Manipulating the properties of stable organic glasses using kinetic facilitation. <i>Journal of Chemical Physics</i> , 2013, 138, 12A517.	1.2	43
100	Molecular packing in highly stable glasses of vapor-deposited tris-naphthylbenzene isomers. <i>Journal of Chemical Physics</i> , 2012, 136, 094505.	1.2	62
101	Density and birefringence of a highly stable $\hat{1}\pm, \hat{1}\pm, \hat{1}^2$ -trisnaphthylbenzene glass. <i>Journal of Chemical Physics</i> , 2012, 136, 204501.	1.2	60
102	Vapor-deposited $\hat{1}\pm, \hat{1}\pm, \hat{1}^2$ -tris-naphthylbenzene glasses with low heat capacity and high kinetic stability. <i>Journal of Chemical Physics</i> , 2012, 137, 154502.	1.2	21
103	Stable glasses of indomethacin and $\hat{1}\pm, \hat{1}\pm, \hat{1}^2$ -tris-naphthylbenzene transform into ordinary supercooled liquids. <i>Journal of Chemical Physics</i> , 2012, 137, 204508.	1.2	49
104	Differential alternating current chip calorimeter for <i>in situ</i> investigation of vapor-deposited thin films. <i>Review of Scientific Instruments</i> , 2012, 83, 033902.	0.6	35
105	Comparing surface and bulk flow of a molecular glass former. <i>Soft Matter</i> , 2012, 8, 2206.	1.2	84
106	Molecular mobility in supported thin films of polystyrene, poly(methyl methacrylate), and poly(2-vinyl) Tj ETQq0 0 Q rgBT /Overlock 10 T	1.2	116
107	Molecular Orientation in Stable Glasses of Indomethacin. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1229-1233.	2.1	84
108	From gas to nanoglobular glass. <i>Nature Materials</i> , 2012, 11, 267-268.	13.3	9

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109	Fast Crystal Growth Induces Mobility and Tension in Supercooled <i>o</i> -Terphenyl. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2562-2567.	2.1	16
110	Perspective: Supercooled liquids and glasses. <i>Journal of Chemical Physics</i> , 2012, 137, 080901.	1.2	427
111	Dielectric spectroscopy of thin films by dual-channel impedance measurements on differential interdigitated electrode arrays. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	21
112	Molecular Motion in Free-Standing Thin Films of Poly(methyl methacrylate), Poly(4- <i>tert</i> -butylstyrene), Poly( $\pm$ -methylstyrene), and Poly(2-vinylpyridine). <i>Macromolecules</i> , 2011, 44, 7034-7042.	2.2	105
113	Segmental Dynamics of Dilute Poly(ethylene oxide) in Low and High Molecular Weight Glass-Formers. <i>Macromolecules</i> , 2011, 44, 9046-9053.	2.2	8
114	Highly Stable Vapor-Deposited Glasses of Four Tris-naphthylbenzene Isomers. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2683-2687.	2.1	37
115	Structural Variations of an Organic Glassformer Vapor-Deposited onto a Temperature Gradient Stage. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 423-427.	2.1	50
116	Evolution of glassy gratings with variable aspect ratios under surface diffusion. <i>Journal of Chemical Physics</i> , 2011, 134, 194704.	1.2	41
117	Self-diffusion of the amorphous pharmaceutical indomethacin near $T_g$ . <i>Soft Matter</i> , 2011, 7, 10339.	1.2	79
118	Anisotropic Structure and Transformation Kinetics of Vapor-Deposited Indomethacin Glasses. <i>Journal of Physical Chemistry B</i> , 2011, 115, 455-463.	1.2	85
119	Direct Measurement of Molecular Motion in Freestanding Polystyrene Thin Films. <i>Journal of the American Chemical Society</i> , 2011, 133, 8444-8447.	6.6	310
120	Temperature-ramping measurement of dye reorientation to probe molecular motion in polymer glasses. <i>Journal of Chemical Physics</i> , 2011, 134, 024901.	1.2	31
121	Surface Self-Diffusion of an Organic Glass. <i>Physical Review Letters</i> , 2011, 106, 256103.	2.9	244
122	Glasses crystallize rapidly at free surfaces by growing crystals upward. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5990-5995.	3.3	120
123	High-Modulus Organic Glasses Prepared by Physical Vapor Deposition. <i>Advanced Materials</i> , 2010, 22, 39-42.	11.1	106
124	Observation of low heat capacities for vapor-deposited glasses of indomethacin as determined by AC nanocalorimetry. <i>Journal of Chemical Physics</i> , 2010, 133, 014702.	1.2	60
125	Interaction between physical aging, deformation, and segmental mobility in poly(methyl methacrylate) glasses. <i>Journal of Chemical Physics</i> , 2010, 133, 014901.	1.2	34
126	Does Brillouin light scattering probe the primary glass transition process at temperatures well above glass transition?. <i>Journal of Chemical Physics</i> , 2010, 132, 074906.	1.2	23



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127	Mechanical Rejuvenation in Poly(methyl methacrylate) Glasses? Molecular Mobility after Deformation. <i>Macromolecules</i> , 2010, 43, 5863-5873.	2.2	58
128	One Micrometer Length Scale Controls Kinetic Stability of Low-Energy Glasses. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 388-392.	2.1	79
129	Transformation of Stable Glasses into Supercooled Liquids: Growth Fronts and Anomalously Fast Liquid Diffusion. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2635-2643.	1.2	42
130	Heterogeneous dynamics during deformation of a polymer glass. <i>Soft Matter</i> , 2010, 6, 287-291.	1.2	96
131	Diffusion-controlled and "diffusionless" crystal growth near the glass transition temperature: Relation between liquid dynamics and growth kinetics of seven ROY polymorphs. <i>Journal of Chemical Physics</i> , 2009, 131, 074506.	1.2	43
132	Physical vapor deposition as a route to hidden amorphous states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15165-15170.	3.3	82
133	Molecular mobility of poly(methyl methacrylate) glass during uniaxial tensile creep deformation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1713-1727.	2.4	67
134	Self-Diffusion of Supercooled Tris-naphthylbenzene. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4600-4608.	1.2	84
135	Highly Stable Indomethacin Glasses Resist Uptake of Water Vapor. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2422-2427.	1.2	62
136	Direct Measurement of Molecular Mobility in Actively Deformed Polymer Glasses. <i>Science</i> , 2009, 323, 231-234.	6.0	254
137	Deformation-Induced Mobility in Polymer Glasses during Multistep Creep Experiments and Simulations. <i>Macromolecules</i> , 2009, 42, 4328-4336.	2.2	108
138	Two DSC Glass Transitions in Miscible Blends of Polyisoprene/Poly(4- <i>tert</i> -butylstyrene). <i>Macromolecules</i> , 2009, 42, 6777-6783.	2.2	62
139	Calorimetric Evidence for Two Distinct Molecular Packing Arrangements in Stable Glasses of Indomethacin. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1579-1586.	1.2	38
140	Stable Glass Transformation to Supercooled Liquid via Surface-Initiated Growth Front. <i>Physical Review Letters</i> , 2009, 102, 065503.	2.9	86
141	Crystallization near Glass Transition: Transition from Diffusion-Controlled to Diffusionless Crystal Growth Studied with Seven Polymorphs. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5594-5601.	1.2	116
142	Hiking down the Energy Landscape: Progress Toward the Kauzmann Temperature via Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4934-4942.	1.2	192
143	Glass Surfaces Not So Glassy. <i>Science</i> , 2008, 319, 577-578.	6.0	32
144	Poly(ethylene oxide) Dynamics in Blends with Poly(vinyl acetate): Comparison of Segmental and Terminal Dynamics. <i>Macromolecules</i> , 2008, 41, 8030-8037.	2.2	18

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145	Diffusionless Crystal Growth from Glass Has Precursor in Equilibrium Liquid. <i>Journal of Physical Chemistry B</i> , 2008, 112, 661-664.	1.2	58
146	Crystal growth kinetics exhibit a fragility-dependent decoupling from viscosity. <i>Journal of Chemical Physics</i> , 2008, 128, 034709.	1.2	272
147	Dye reorientation as a probe of stress-induced mobility in polymer glasses. <i>Journal of Chemical Physics</i> , 2008, 128, 134902.	1.2	68
148	Molecular view of the isothermal transformation of a stable glass to a liquid. <i>Journal of Chemical Physics</i> , 2008, 128, 214514.	1.2	45
149	Extraordinarily Stable Organic Glasses Prepared by Vapor Deposition: Dependence of Stability and Dynamics upon Deposition Temperature. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	2
150	Organic Glass-Forming Materials: 1,3,5-Tris(naphthyl)benzene Derivatives. <i>Journal of Organic Chemistry</i> , 2007, 72, 10051-10057.	1.7	32
151	Organic Glasses with Exceptional Thermodynamic and Kinetic Stability. <i>Science</i> , 2007, 315, 353-356.	6.0	647
152	Free Volume and Finite-Size Effects in a Polymer Glass under Stress. <i>Physical Review Letters</i> , 2007, 99, 215501.	2.9	106
153	Influence of substrate temperature on the stability of glasses prepared by vapor deposition. <i>Journal of Chemical Physics</i> , 2007, 127, 154702.	1.2	165
154	Molecular weight dependence of polystyrene segmental dynamics in dilute blends with poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2.4	2.4	5
155	Self-Diffusion of Supercooled-o-Terphenyl near the Glass Transition Temperature. <i>Journal of Physical Chemistry B</i> , 2006, 110, 507-511.	1.2	205
156	Dynamics in glass-forming mixtures: Comparison of behavior of polymeric and non-polymeric components. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4718-4723.	1.5	24
157	Isothermal desorption measurements of self-diffusion in supercooled o-terphenyl. <i>Journal of Chemical Physics</i> , 2006, 124, 054710.	1.2	28
158	Neutron reflectivity measurements of the translational motion of tris(naphthylbenzene) at the glass transition temperature. <i>Journal of Chemical Physics</i> , 2006, 124, 184501.	1.2	23
159	Miscible Polyisoprene/Polystyrene Blends: A Distinct Segmental Dynamics but Homogeneous Terminal Dynamics. <i>Macromolecules</i> , 2005, 38, 6216-6226.	2.2	32
160	Segmental Dynamics of Dilute Polystyrene Chains in Miscible Blends and Solutions. <i>Macromolecules</i> , 2005, 38, 9826-9835.	2.2	42
161	Self-diffusion and Spatially Heterogeneous Dynamics in Supercooled Liquids Near T <sub>g</sub> . <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
162	Self-Diffusion and Viscosity of Low Molecular Weight Polystyrene over a Wide Temperature Range. <i>Macromolecules</i> , 2004, 37, 1558-1564.	2.2	55

#	ARTICLE	IF	CITATIONS
163	Comparison of the Composition and Temperature Dependences of Segmental and Terminal Dynamics in Polybutadiene/Poly(vinyl ethylene) Blends. <i>Macromolecules</i> , 2004, 37, 9889-9898.	2.2	36
164	Dilute Polymer Blends: Are the Segmental Dynamics of Isolated Polyisoprene Chains Slaved to the Dynamics of the Host Polymer?. <i>Macromolecules</i> , 2004, 37, 6440-6448.	2.2	47
165	NMR Experiments and Molecular Dynamics Simulations of the Segmental Dynamics of Polystyrene. <i>Macromolecules</i> , 2004, 37, 5032-5039.	2.2	58
166	Enhanced translational diffusion of rubrene and tetracene in polysulfone. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2003, 34, 2853-2861.	2.4	28
167	Prediction of Segmental and Global Dynamics in Disordered Styrene-Isoprene Tetrablock Copolymers. <i>Macromolecules</i> , 2003, 36, 9170-9175.	2.2	17
168	NMR Investigation of Segmental Dynamics in Disordered Styrene-Isoprene Tetrablock Copolymers. <i>Macromolecules</i> , 2003, 36, 8040-8048.	2.2	24
169	Composition and Temperature Dependence of Terminal and Segmental Dynamics in Polyisoprene/Poly(vinylethylene) Blends. <i>Macromolecules</i> , 2003, 36, 6142-6151.	2.2	116
170	Rapid Poly(ethylene oxide) Segmental Dynamics in Blends with Poly(methyl methacrylate). <i>Macromolecules</i> , 2003, 36, 1724-1730.	2.2	140
171	Segmental and terminal dynamics in miscible polymer mixtures: Tests of the Lodge-McLeish model. <i>Journal of Chemical Physics</i> , 2003, 119, 9956-9965.	1.2	115
172	Glass transition of small polystyrene spheres in aqueous suspensions. <i>Journal of Chemical Physics</i> , 2003, 119, 8730-8735.	1.2	100
173	Change in the temperature dependence of segmental dynamics in deeply supercooled polycarbonate. <i>Journal of Chemical Physics</i> , 2003, 118, 1996-2004.	1.2	42
174	Self-Diffusion of tris-Naphthylbenzene near the Glass Transition Temperature. <i>Physical Review Letters</i> , 2003, 90, 015901.	2.9	226
175	Length Scale of Dynamic Heterogeneity in Supercooled Sorbitol: Comparison to Model Predictions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 459-464.	1.2	123
176	Influence of spatially heterogeneous dynamics on physical aging of polystyrene. <i>Journal of Chemical Physics</i> , 2002, 116, 9089-9099.	1.2	60
177	Segmental dynamics in a blend of alkanes: Nuclear magnetic resonance experiments and molecular dynamics simulation. <i>Journal of Chemical Physics</i> , 2002, 116, 8209-8217.	1.2	18
178	Entanglement Effects in Polyethylene Melts: <sup>13</sup> C NMR Relaxation Experiments. <i>Macromolecules</i> , 2002, 35, 1691-1698.	2.2	6
179	Spatially heterogeneous dynamics during physical aging far below the glass transition temperature. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2463-2472.	2.4	23
180	Chiral Studies in Amorphous Solids: The Effect of the Polymeric Glassy State on the Racemization Kinetics of Bridged Paddled Binaphthyls. <i>Journal of the American Chemical Society</i> , 2001, 123, 49-56.	6.6	59

#	ARTICLE	IF	CITATIONS
181	Temperature Dependence of Segmental and Terminal Relaxation in Atactic Polypropylene Melts. <i>Macromolecules</i> , 2001, 34, 6159-6160.	2.2	94
182	Component Dynamics in Polyisoprene/Polyvinylethylene Blends Well above T <sub>g</sub> . <i>Macromolecules</i> , 2001, 34, 4466-4475.	2.2	65
183	<sup>13</sup> C NMR Spin Lattice Relaxation and Conformational Dynamics in a 1,4-Polybutadiene Melt. <i>Macromolecules</i> , 2001, 34, 5192-5199.	2.2	74
184	Effect of tacticity on the segmental dynamics of polypropylene melts investigated by <sup>13</sup> C nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2001, 115, 4961-4965.	1.2	13
185	Length scale of dynamic heterogeneity in supercooled glycerol near T <sub>g</sub> . <i>Journal of Chemical Physics</i> , 2001, 114, 7299-7302.	1.2	173
186	PHYSICAL CHEMISTRY: Single Molecules Rock and Roll Near the Glass Transition. <i>Science</i> , 2001, 292, 233-234.	6.0	14
187	Molecular motion during physical aging in polystyrene: Investigation using probe reorientation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 68-79.	2.4	21
188	Spatially heterogeneous dynamics in thermoset resins below the glass-transition temperature. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2232-2239.	2.4	7
189	Branching effects on the segmental dynamics of polyethylene melts. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2634-2643.	2.4	13
190	Lifetime of spatially heterogeneous dynamic domains in polystyrene melts. <i>Journal of Chemical Physics</i> , 2000, 112, 6933-6937.	1.2	62
191	Local and global dynamics of atactic polypropylene melts by multiple field <sup>13</sup> C nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , 2000, 113, 2918-2926.	1.2	35
192	SPATIALLY HETEROGENEOUS DYNAMICS IN SUPERCOOLED LIQUIDS. <i>Annual Review of Physical Chemistry</i> , 2000, 51, 99-128.	4.8	2,135
193	MATERIALS SCIENCE: Movies of the Glass Transition. <i>Science</i> , 2000, 287, 604-605.	6.0	16
194	Anomalous Translational Diffusion: A New Constraint for Models of Molecular Motion Near the Glass Transition Temperature. <i>Journal of Physical Chemistry B</i> , 2000, 104, 1724-1728.	1.2	32
195	<sup>13</sup> C NMR Study of Segmental Dynamics of Atactic Polypropylene Melts. <i>Macromolecules</i> , 2000, 33, 2145-2152.	2.2	44
196	Local and Global Dynamics of Unentangled Polyethylene Melts by <sup>13</sup> C NMR. <i>Macromolecules</i> , 2000, 33, 490-498.	2.2	43
197	Molecular motion during physical aging in polystyrene: Investigation using probe reorientation. , 2000, 38, 68.		3
198	Branching effects on the segmental dynamics of polyethylene melts. , 2000, 38, 2634.		1

#	ARTICLE	IF	CITATIONS
199	Calculation of the coherent dynamic structure factor of polyisoprene from molecular dynamics simulations. <i>Physical Review E</i> , 1999, 59, 623-630.	0.8	34
200	How Long Do Regions of Different Dynamics Persist in Supercooled- <i>o</i> -Terphenyl?. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4177-4184.	1.2	110
201	Molecular Dynamics of a 1,4-Polybutadiene Melt. Comparison of Experiment and Simulation. <i>Macromolecules</i> , 1999, 32, 8857-8865.	2.2	104
202	Spatially heterogeneous dynamics in deeply supercooled liquids. , 1999, , .		1
203	Polyisoprene local dynamics in solution: Comparison between molecular dynamics simulations and optimized Rouse-Zimm local dynamics. <i>Journal of Chemical Physics</i> , 1998, 108, 1245-1252.	1.2	9
204	Local Dynamics of Poly(ethylene oxide) in Solution. 1. Localization of Chain Motion. <i>Macromolecules</i> , 1997, 30, 5704-5713.	2.2	15
205	Viscosity Dependence of Polystyrene Local Dynamics in Dilute Solution. <i>Macromolecules</i> , 1997, 30, 1205-1210.	2.2	27
206	Enhanced Translational Diffusion of 9,10-Bis(phenylethynyl)anthracene (BPEA) in Polystyrene. <i>Macromolecules</i> , 1997, 30, 4770-4771.	2.2	37
207	Local Dynamics of Poly(ethylene oxide) in Solution. 2. Vector Autocorrelation Functions and Motional Anisotropy. <i>Macromolecules</i> , 1997, 30, 5714-5720.	2.2	13
208	Translational Diffusion on Heterogeneous Lattices: A Model for Dynamics in Glass Forming Materials. <i>Journal of Physical Chemistry B</i> , 1997, 101, 8727-8734.	1.2	109
209	Translational diffusion of rubrene and tetracene in polyisobutylene. <i>Rheologica Acta</i> , 1997, 36, 209-216.	1.1	26
210	Polystyrene local dynamics in dilute solution: Temperature and solvent dependence of C-D vector correlation function shape. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 1241-1250.	2.4	4
211	Translational diffusion of rubrene and tetracene in polyisobutylene. <i>Rheologica Acta</i> , 1997, 36, 209-216.	1.1	3
212	Supercooled Liquids and Glasses. <i>The Journal of Physical Chemistry</i> , 1996, 100, 13200-13212.	2.9	1,893
213	Computer Simulations of Polyisoprene Local Dynamics in Vacuum, Solution, and the Melt: Are Conformational Transitions Always Important?. <i>Macromolecules</i> , 1996, 29, 5484-5492.	2.2	56
214	Probe rotation near and below the glass transition temperature: Relationship to viscoelasticity and physical aging. <i>Macromolecular Symposia</i> , 1996, 101, 139-146.	0.4	8
215	Translational and Rotational Motion of Probes in Supercooled 1,3,5-Tris(naphthyl)benzene. <i>The Journal of Physical Chemistry</i> , 1996, 100, 18249-18257.	2.9	106
216	Enhanced translation of probe molecules in supercooled <i>o</i> -terphenyl: Signature of spatially heterogeneous dynamics?. <i>Journal of Chemical Physics</i> , 1996, 104, 7210-7218.	1.2	420

#	ARTICLE	IF	CITATIONS
217	How do molecules move near Tg? Molecular rotation of six probes in o-terphenyl across 14 decades in time. <i>Journal of Chemical Physics</i> , 1995, 102, 471-479.	1.2	354
218	Deuterium NMR Characterization of 1,2-Polybutadiene Local Dynamics in Dilute Solution. <i>Macromolecules</i> , 1995, 28, 7549-7557.	2.2	23
219	Molecular Motions and Viscoelasticity of Amorphous Polymers near Tg. <i>Macromolecules</i> , 1995, 28, 3425-3433.	2.2	94
220	Anomalous Diffusion of Probe Molecules in Polystyrene: Evidence for Spatially Heterogeneous Segmental Dynamics. <i>Macromolecules</i> , 1995, 28, 8224-8232.	2.2	240
221	Molecular Dynamics Computer Simulation of Polyisoprene Local Dynamics in Dilute Toluene Solution. <i>Macromolecules</i> , 1995, 28, 2329-2338.	2.2	53
222	Relaxation of spatially heterogeneous dynamic domains in supercooled ortho-terphenyl. <i>Journal of Chemical Physics</i> , 1995, 103, 5684-5692.	1.2	348
223	Carbon-13 NMR measurements of polybutadiene local dynamics in dilute solution: Further evidence for non-Kramers' behavior. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 2251-2262.	2.4	12
224	Temperature dependence of molecular motions in bulk polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994, 32, 2595-2604.	2.4	13
225	Comparison of Equilibrium and Dynamic Properties of Polymethylene Melts of n-C44H90 Chains from Simulations and Experiments. <i>Macromolecules</i> , 1994, 27, 5563-5569.	2.2	70
226	Comparison of various measurements of microscopic friction in polymer solutions. <i>Macromolecules</i> , 1993, 26, 512-519.	2.2	40
227	Photobleaching technique for measuring ultraslow reorientation near and below the glass transition: tetracene in o-terphenyl. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10489-10497.	2.9	91
228	A new technique for measuring ultraslow molecular reorientation near and below the glass transition. <i>Journal of Chemical Physics</i> , 1992, 97, 2156-2159.	1.2	25
229	Cooperativity of local conformational dynamics in simulations of polyisoprene and polyethylene. <i>Macromolecules</i> , 1992, 25, 1074-1078.	2.2	43
230	Local polymer and solvent dynamics in Aroclor solutions: implications for solvent modification. <i>Macromolecules</i> , 1992, 25, 1284-1293.	2.2	31
231	Viscosity dependence of the local segmental dynamics of anthracene-labeled polyisoprene in dilute solution. <i>Macromolecules</i> , 1992, 25, 867-872.	2.2	58
232	Concentration and temperature dependence of local motions in polyisoprene/tetrahydrofuran. <i>Macromolecules</i> , 1992, 25, 873-879.	2.2	12
233	Brownian dynamics simulations of local motions in polyisoprene. <i>Macromolecules</i> , 1991, 24, 5834-5842.	2.2	57
234	Viscosity dependence of the local segmental dynamics of anthracene-labeled polystyrene in dilute solution. <i>Macromolecules</i> , 1991, 24, 3147-3153.	2.2	62

#	ARTICLE	IF	CITATIONS
235	Local dynamics of polyisoprene in toluene. <i>Macromolecules</i> , 1991, 24, 4270-4277.	2.2	71
236	Time-Resolved Optical Studies of Local Polymer Dynamics. <i>Annual Review of Physical Chemistry</i> , 1991, 42, 225-250.	4.8	81
237	Rotational dynamics of anthracene and 9,10-dimethylantracene in polyisoprene. <i>Journal of Chemical Physics</i> , 1990, 92, 1036-1044.	1.2	48
238	Nanosecond and microsecond study of probe reorientation in orthoterphenyl. <i>Journal of Chemical Physics</i> , 1990, 93, 2274-2279.	1.2	36
239	Carbon-13 nuclear magnetic resonance measurements of local segmental dynamics of polyisoprene in dilute solution: nonlinear viscosity dependence. <i>Macromolecules</i> , 1990, 23, 3520-3530.	2.2	66
240	Time-resolved optical study of the rotational mobility of small probe molecules in bulk polyisoprene. <i>Macromolecules</i> , 1989, 22, 1510-1512.	2.2	8
241	Local segmental dynamics of polyisoprene in concentrated solutions and in the bulk. <i>Macromolecules</i> , 1989, 22, 2253-2259.	2.2	28
242	Local segmental dynamics of polyisoprene in dilute solution: solvent and molecular weight effects. <i>Macromolecules</i> , 1989, 22, 1345-1351.	2.2	26
243	Time-Resolved Optical Spectroscopy as a Probe of Local Polymer Motions. <i>ACS Symposium Series</i> , 1987, , 68-82.	0.5	0
244	Local segmental dynamics of polyisoprene in dilute solution: picosecond holographic grating experiments. <i>Macromolecules</i> , 1986, 19, 2533-2538.	2.2	26
245	Determination of the guest radius of gyration in polymer blends: time-resolved measurements of excitation transport induced fluorescence depolarization. <i>Macromolecules</i> , 1985, 18, 1182-1190.	2.2	31
246	Picosecond studies of excitation transport in a finite volume: The clustered transport system octadecyl rhodamine B in triton X-100 micelles. <i>Journal of Chemical Physics</i> , 1984, 80, 1246-1253.	1.2	64
247	New approach to probing polymer and polymer blend structure using electronic excitation transport. <i>Macromolecules</i> , 1983, 16, 1839-1844.	2.2	56
248	Electronic excited state transport among molecules distributed randomly in a finite volume. <i>Journal of Chemical Physics</i> , 1983, 78, 2518-2524.	1.2	55