

Dino Leporini

List of Publications by Year in descending order

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128
papers

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citations

212478

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131
docs citations

131
times ranked

1478
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal scaling between structural relaxation and vibrational dynamics in glass-forming liquids and polymers. <i>Nature Physics</i> , 2008, 4, 42-45.	6.5	272
2	Obstruction model of the fractional Stokes-Einstein relation in glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 137-141.	1.5	103
3	Langevin stabilization of molecular-dynamics simulations of polymers by means of quasisymplectic algorithms. <i>Journal of Chemical Physics</i> , 2007, 126, 104101.	1.2	100
4	Evidence of a fractional Debye-Stokes-Einstein law in supercooled o-terphenyl. <i>Europhysics Letters</i> , 1997, 38, 669-674.	0.7	84
5	ESR evidence for 2 coexisting liquid phases in deeply supercooled bulk water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11448-11453.	3.3	71
6	Communication: Correlation of the instantaneous and the intermediate-time elasticity with the structural relaxation in glassforming systems. <i>Journal of Chemical Physics</i> , 2012, 136, 041104.	1.2	70
7	Viscous flow and jump dynamics in molecular supercooled liquids. I. Translations. <i>Physical Review E</i> , 2001, 63, 036701.	0.8	65
8	Viscous flow and jump dynamics in molecular supercooled liquids. II. Rotations. <i>Physical Review E</i> , 2001, 63, 036702.	0.8	64
9	Fast-computational approach to the evaluation of slow-motion EPR spectra in terms of a generalized Langevin equation. <i>Physical Review A</i> , 1983, 28, 2474-2481.	1.0	57
10	Scaling Analysis and Distribution of the Rotational Correlation Times of a Tracer in Rubbery and Glassy Poly(vinyl acetate): An Electron Spin Resonance Investigation. <i>Macromolecules</i> , 1999, 32, 1876-1882.	2.2	57
11	Universal scaling between structural relaxation and caged dynamics in glass-forming systems: Free volume and time scales. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 298-301.	1.5	57
12	Universal divergenceless scaling between structural relaxation and caged dynamics in glass-forming systems. <i>Journal of Chemical Physics</i> , 2009, 131, 224517.	1.2	54
13	Predictive relation for the τ_{\pm} -relaxation time of a coarse-grained polymer melt under steady shear. <i>Science Advances</i> , 2020, 6, eaaz0777.	4.7	45
14	Jump reorientation of a molecular probe in the glass transition region of o-terphenyl. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 3795-3809.	0.7	42
15	Molecular dynamics study of the thermal and the density effects on the local and the large-scale motion of polymer melts: Scaling properties and dielectric relaxation. <i>Journal of Chemical Physics</i> , 2004, 120, 437-453.	1.2	38
16	Scaling between structural relaxation and particle caging in a model colloidal gel. <i>Soft Matter</i> , 2011, 7, 4025.	1.2	38
17	Spatial displacement correlations in polymeric systems. <i>Journal of Chemical Physics</i> , 2012, 136, 164901.	1.2	38
18	Electron spin relaxation due to small-angle motion: Theory for the canonical orientations and application to hierarchic cage dynamics in ionomers. <i>Journal of Chemical Physics</i> , 2003, 119, 11829-11846.	1.2	37

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19	Scaling between Relaxation, Transport, and Caged Dynamics in Polymers: From Cage Restructuring to Diffusion. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14046-14051.	1.2	36
20	Thermodynamic scaling of vibrational dynamics and relaxation. <i>Journal of Chemical Physics</i> , 2016, 145, 234904.	1.2	35
21	Anisotropic jump model of the rotational dynamics in glasses. <i>Journal of Chemical Physics</i> , 2001, 114, 3631-3639.	1.2	33
22	Role of the density in the crossover region of <i>o</i> -terphenyl and poly(vinyl acetate). <i>Physical Review E</i> , 2004, 69, 061509.	0.8	33
23	Nonlinear electron spin resonance techniques for the study of inhomogeneously broadened spectra. <i>Journal of Chemical Physics</i> , 1988, 88, 607-616.	1.2	31
24	Relationship between a nonlinear response and relaxation induced by colored noise. <i>Physical Review A</i> , 1994, 49, 992-1014.	1.0	31
25	A study of the Debye - Stokes - Einstein law in supercooled fluids. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 9605-9608.	0.7	30
26	Linear and non-linear electron spin resonance study of the rotational diffusion of a molecular tracer in supercooled <i>o</i> -terphenyl. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 219-224.	1.5	30
27	Scaling of the Rotational Relaxation of Tracers in <i>o</i> -Terphenyl: A Linear and Nonlinear ESR Study. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4097-4103.	1.2	29
28	Scaling between structural relaxation and caged dynamics in $\text{Ca}_{0.4}\text{K}_{0.6}(\text{NO}_3)_3$ and glycerol: free volume, time-scales and implications for pressure-energy correlations. <i>Philosophical Magazine</i> , 2011, 91, 1786-1795.	0.7	29
29	Equilibrated polyethylene single-molecule crystals: molecular-dynamics simulations and analytic model of the global minimum of the free-energy landscape. <i>Journal of Physics Condensed Matter</i> , 2005, 17, L199-L208.	0.7	27
30	Scaling between relaxation, transport and caged dynamics in a binary mixture on a per-component basis. <i>Journal of Chemical Physics</i> , 2013, 138, 12A532.	1.2	27
31	Efficient characterization of the orientational ordering of ESR-active probes in supermolecular fluids. <i>Applied Magnetic Resonance</i> , 1993, 4, 279-295.	0.6	26
32	Scaling between the rotational diffusion of tracers and the relaxation of polymers and glass formers. <i>Journal of Physics Condensed Matter</i> , 1999, 11, A131-A137.	0.7	26
33	Signatures of the fast dynamics in glassy polystyrene: First evidence by high-field Electron Paramagnetic Resonance of molecular guests. <i>Journal of Chemical Physics</i> , 2005, 123, 174906.	1.2	24
34	The kinetic fragility of liquids as manifestation of the elastic softening. <i>European Physical Journal E</i> , 2015, 38, 87.	0.7	24
35	Pressure and temperature dependence of structural relaxation dynamics in polymers: a thermodynamic interpretation. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6597-6608.	0.7	23
36	Violation of the fluctuation-dissipation theorem in confined driven colloids. <i>Europhysics Letters</i> , 2006, 76, 1022-1028.	0.7	23

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37	Communication: Fast and local predictors of the violation of the Stokes-Einstein law in polymers and supercooled liquids. <i>Journal of Chemical Physics</i> , 2012, 136, 211101.	1.2	20
38	Molecular layers in thin supported films exhibit the same scaling as the bulk between slow relaxation and vibrational dynamics. <i>Soft Matter</i> , 2018, 14, 8814-8820.	1.2	20
39	A manifestation of the Ostwald step rule: Molecular-dynamics simulations and free-energy landscape of the primary nucleation and melting of single-molecule polyethylene in dilute solution. <i>Journal of Chemical Physics</i> , 2005, 123, 144907.	1.2	19
40	Relaxation induced by colored noise: Analytical results for multilevel systems. <i>Physical Review A</i> , 1992, 46, 6222-6241.	1.0	17
41	Non-Gaussian effects in the cage dynamics of polymers. <i>Philosophical Magazine</i> , 2008, 88, 4057-4062.	0.7	17
42	Slow Motion EPR Spectra in Terms of a Generalized Langevin Equation. <i>Advances in Chemical Physics</i> , 2007, , 321-388.	0.3	16
43	Molecular Probe Dynamics Reveals Suppression of Ice-Like Regions in Strongly Confined Supercooled Water. <i>PLoS ONE</i> , 2012, 7, e44382.	1.1	16
44	Boson Peak Decouples from Elasticity in Glasses with Low Connectivity. <i>Physical Review Letters</i> , 2018, 121, 185502.	2.9	16
45	Probing Porous Polymer Resins by High-Field Electron Spin Resonance Spectroscopy. <i>Macromolecules</i> , 2002, 35, 3977-3983.	2.2	15
46	Static and dynamic density effects due to the finite length of polymer chains: a molecular-dynamics investigation. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6609-6618.	0.7	15
47	Longitudinally detected electron spin resonance: Recent developments. <i>Applied Magnetic Resonance</i> , 1992, 3, 107-129.	0.6	14
48	Communication: Fast dynamics perspective on the breakdown of the Stokes-Einstein law in fragile glassformers. <i>Journal of Chemical Physics</i> , 2018, 148, 131102.	1.2	14
49	Double-modulation electron-spin-resonance spectroscopy: Experimental observations and theoretical comprehensive interpretation. <i>Physical Review A</i> , 1988, 38, 1931-1942.	1.0	13
50	Thermodynamic scaling of relaxation: insights from anharmonic elasticity. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 135101.	0.7	13
51	Non-linear electron paramagnetic resonance spectroscopy: direct observation of slow dynamics effects at polymer glass transition. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991, 160, 309-314.	0.9	12
52	Confinement effects in ionomers: a high-field pulsed electron spin resonance spectroscopy study. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 510-516.	1.5	12
53	A study of the deep structure of the energy landscape of glassy polystyrene: the exponential distribution of the energy barriers revealed by high-field electron spin resonance spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2004, 16, L479-L488.	0.7	12
54	Comment on "Generalized localization model of relaxation in glass-forming liquids". <i>Soft Matter</i> , 2013, 9, 7890.	1.2	12

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55	Competition of the connectivity with the local and the global order in polymer melts and crystals. <i>Journal of Chemical Physics</i> , 2013, 139, 184501.	1.2	12
56	Weak links between fast mobility and local structure in molecular and atomic liquids. <i>Journal of Chemical Physics</i> , 2015, 142, 124504.	1.2	12
57	Cage effect in supercooled molecular liquids: Local anisotropies and collective solid-like response. <i>Journal of Chemical Physics</i> , 2016, 144, 144505.	1.2	12
58	Local Reversible Melting in Semicrystalline Poly(dimethylsiloxane): A High-Field Electron Paramagnetic Resonance Study. <i>Macromolecules</i> , 2017, 50, 5061-5073.	2.2	12
59	Longitudinal relaxation induced by colored noise. <i>Physical Review E</i> , 1994, 49, 3488-3491.	0.8	11
60	Cage rattling does not correlate with the local geometry in molecular liquids. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 29-33.	1.5	11
61	Johari's Goldstein Heterogeneous Dynamics in a Model Polymer. <i>Macromolecules</i> , 2021, 54, 2053-2058.	2.2	11
62	Fast Vibrational Modes and Slow Heterogeneous Dynamics in Polymers and Viscous Liquids. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5708.	1.8	10
63	A Fast Algorithm for Magnetic Resonance Lineshapes of Powder Samples. <i>Journal of Magnetic Resonance Series A</i> , 1993, 104, 166-171.	1.6	9
64	Microscopic transport properties in liquid crystalline polymeric matrices: dependence on the thermal history. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 943-949.	1.5	9
65	Non linear behaviour of double modulation EPR spectra. <i>Solid State Communications</i> , 1986, 60, 575-579.	0.9	8
66	Photoassisted interactions in C60/O2 mixtures: an ESR, calorimetric and mass spectroscopy investigation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994, 189, 322-326.	0.9	8
67	Electron spin resonance studies of the enhanced rotation and the fractional Debye's Stokes-Einstein law in polymeric liquid crystals. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 77, 547-556.	0.6	8
68	Cage effects on the librational motion in ionomeric homopolymers and block copolymers. <i>Philosophical Magazine</i> , 2004, 84, 1567-1572.	0.7	8
69	Anomaly of the rotational nonergodicity parameter of glass formers probed by high field electron paramagnetic resonance. <i>Journal of Chemical Physics</i> , 2008, 129, 081102.	1.2	8
70	Bond disorder, frustration and polymorphism in the spontaneous crystallization of a polymer melt. <i>Journal of Non-Crystalline Solids</i> , 2016, 453, 88-93.	1.5	8
71	In silico broadband mechanical spectroscopy of amorphous tantalum. <i>Physical Review Research</i> , 2019, 1, .	1.3	8
72	Nonlinear techniques applied to inhomogeneously broadened EPR lines: experimental evidence for T1 dependence of double modulation spectra. <i>Journal of Physics C: Solid State Physics</i> , 1987, 20, 3975-3978.	1.5	7

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73	The onset of the fast dynamics in glassy polystyrene observed by the detrapping of guest molecules: A high-field Electron Paramagnetic Resonance study. <i>Europysics Letters</i> , 2005, 72, 590-596.	0.7	7
74	Polymer thermal and acoustic properties using heterodyne detected transient grating technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 685-690.	2.4	7
75	Constrained and Heterogeneous Dynamics in the Mobile and the Rigid Amorphous Fractions of Poly(dimethylsiloxane): A Multifrequency High-Field Electron Paramagnetic Resonance Study. <i>Macromolecules</i> , 2014, 47, 6748-6756.	2.2	7
76	Short-time elasticity of polymer melts: Tobolsky conjecture and heterogeneous local stiffness. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 1401-1407.	2.4	7
77	Fractional Debye-Stokes-Einstein Law in Polymeric Liquid Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1995, 407, 233.	0.1	6
78	Coincident Correlation between Vibrational Dynamics and Primary Relaxation of Polymers with Strong or Weak Johari-Goldstein Relaxation. <i>Polymers</i> , 2020, 12, 761.	2.0	6
79	Electron resonance investigation of a cholesteric mesophase induced by a chiral probe. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1982, 78, 307.	1.1	5
80	Debye-Stokes-Einstein Fractional Law in a Polymeric Liquid Crystal: A Non-Linear ESR Study by Using Spin Probes with Different Symmetries. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 290, 1-10.	0.3	5
81	Transient and equilibrated single-molecule crystals of polyethylene: Molecular-dynamics studies of the lamellar fold length. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2006, 364, 183-189.	1.2	5
82	Dynamical Line-Shifts in High-Field Electron Spin Resonance: Applications to Polymer Physics. <i>Zeitschrift Fur Physikalische Chemie</i> , 2012, 226, 1379-1394.	1.4	5
83	A High-Field EPR Study of the Accelerated Dynamics of the Amorphous Fraction of Semicrystalline Poly(dimethylsiloxane) at the Melting Point. <i>Applied Magnetic Resonance</i> , 2014, 45, 693-706.	0.6	5
84	Effect of nematic ordering on the elasticity and yielding in disordered polymeric solids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1760-1769.	2.4	5
85	Discussion on the EPR sensitivity in the slow-motion regime. <i>Physical Review A</i> , 1985, 32, 662-665.	1.0	4
86	Microscopic and Collective Dynamics in Supercooled Polymeric Liquid Crystals: Dependence on the Thermal History. <i>Molecular Crystals and Liquid Crystals</i> , 1995, 266, 73-83.	0.3	4
87	Accurate excluded-volume corrections to the single-chain static properties of a melt of unentangled polymers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 7543-7552.	0.7	4
88	Connectivity effects in the segmental self- and cross-reorientation of unentangled polymer melts. <i>Journal of Chemical Physics</i> , 2009, 131, 174902.	1.2	4
89	A Study of the Glass Transition in Polymeric Mesophases via Calorimetric and Non-Linear ESR Techniques. <i>Molecular Crystals and Liquid Crystals</i> , 1992, 212, 107-114.	0.3	3
90	The characterization of the orientational correlation decay in polymeric fluids by linear and non-linear ESR. <i>Journal of Physics Condensed Matter</i> , 1994, 6, A323-A327.	0.7	3

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91	Relaxation induced by colored noise. II. Homogeneous and heterogeneous correlation loss. Physical Review E, 1995, 51, 903-921.	0.8	3
92	Measurement of the Longitudinal Relaxation Time by Continuous-Wave, Nonlinear Electron Spin Resonance Spectroscopies. Journal of Magnetic Resonance, 1998, 131, 86-91.	1.2	3
93	Free-energy effects in single-molecule polymer crystals. Journal of Non-Crystalline Solids, 2006, 352, 5021-5024.	1.5	3
94	Fourth Workshop on Non-Equilibrium Phenomena in Supercooled Fluids, Glasses and Amorphous Materials. Journal of Physics Condensed Matter, 2007, 19, 200301.	0.7	3
95	Mutual information does not detect growing correlations in the propensity of a model molecular liquid. Soft Matter, 2019, 15, 6784-6790.	1.2	3
96	Copper complex E.P.R. lineshape simulation in the slow motion regime. Molecular Physics, 1985, 55, 509-525.	0.8	2
97	High precision programmable apparatus for temperature control and measurement in ESR experiments. Journal of Physics E: Scientific Instruments, 1986, 19, 609-613.	0.7	2
98	ESR studies of the orientational and reorientational properties of mesomorphic polymers. Liquid Crystals, 1993, 14, 1529-1537.	0.9	2
99	Spin relaxation driven by dynamic disorder. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 222, 50-58.	0.9	2
100	Sensitivity of high-field electron paramagnetic resonance to the reorientation of molecular guests in glassy polymers. Philosophical Magazine, 2007, 87, 795-798.	0.7	2
101	Second harmonic generation studies of intrinsic and extrinsic relaxation dynamics in poly(methyl Tj ETQq1 1 0.784314 rgBT ₂ /Overlo	1.5	2
102	Anisotropy of the monomer random walk in a polymer melt: local-order and connectivity effects. Journal of Physics Condensed Matter, 2016, 28, 185103.	0.7	2
103	Vibrational scaling of the heterogeneous dynamics detected by mutual information. European Physical Journal E, 2019, 42, 146.	0.7	2
104	Mutual Information in Molecular and Macromolecular Systems. International Journal of Molecular Sciences, 2021, 22, 9577.	1.8	2
105	Non-linear ESR spectroscopies in ordered fluids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1993, 72, 237-244.	2.3	1
106	A linear and non-linear electron spin resonance study of orientational relaxation in semi-crystalline polymeric liquid crystals. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 783-788.	0.4	1
107	Characterization of non-exponential relaxation via linear ESR. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1217-1221.	0.4	1
108	Rotational Dynamics of a Molecular Probe in Tri-Cresyl Phosphate: From "Stick" to "Slip" Boundary Conditions. Materials Research Society Symposia Proceedings, 1996, 455, 157.	0.1	1

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109	Comment on "A 250 GHz ESR study of o-terphenyl: Dynamic cage effects above T _c ". [J. Chem. Phys 106, 9996 (1997)]. Journal of Chemical Physics, 1998, 109, 10523-10524.	1.2	1
110	MOLECULAR-DYNAMICS STUDIES OF BIATOMIC SUPERCOOLED LIQUIDS: INTERMITTENCY, STICK-SLIP TRANSITION AND THE BREAKDOWN OF THE STOKES-EINSTEIN LAWS. Fractals, 2003, 11, 139-147.	1.8	1
111	Fluctuations of non-conservative systems. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P03002-P03002.	0.9	1
112	Excluded-volume corrections to the single-chain static properties of a polymer melt: Temperature, density and potential effects. Journal of Non-Crystalline Solids, 2007, 353, 3879-3884.	1.5	1
113	Physics of Polymers at the Italian High-Field EPR Facility: Heterogeneities and Fast Dynamics. Applied Magnetic Resonance, 2008, 33, 365.	0.6	1
114	Comment on "Hyperquenched Glassy Water and Hyperquenched Glassy Ethanol Probed by Single Molecule Spectroscopy". Journal of Physical Chemistry B, 2010, 114, 688-688.	1.2	1
115	High-Field Electron Paramagnetic Resonance Reveals a Stable Glassy Fraction up to Melting in Semicrystalline Poly(dimethylsiloxane). Applied Magnetic Resonance, 2017, 48, 827-840.	0.6	1
116	Elastic modulus and yield strength of semicrystalline polymers with bond disorder are higher than in atomic crystals. Journal of Physics and Chemistry of Solids, 2018, 118, 40-46.	1.9	1
117	Non-local cooperative atomic motions that govern dissipation in amorphous tantalum unveiled by dynamical mechanical spectroscopy. Acta Materialia, 2020, 201, 1-6.	3.8	1
118	Glassforming Liquids, Amorphous and Semicrystalline Polymers: Exploring their Energy Landscape and Dynamical Heterogeneity by Multi-frequency High-Field EPR. Applied Magnetic Resonance, 2020, 51, 1591-1605.	0.6	1
119	Nanoscale Elastoplastic Wrinkling of Ultrathin Molecular Films. International Journal of Molecular Sciences, 2021, 22, 11732.	1.8	1
120	Magnetic monopoles in ferromagnetic materials. Nuclear Physics B, 1985, 262, 49-66.	0.9	0
121	A new non-linear high sensitivity spectroscopy in the slow molecular motion regime. Liquid Crystals, 1988, 3, 989-997.	0.9	0
122	Evidence of large-angle reorientation in supercooled o-terphenyl. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1994, 16, 1285-1289.	0.4	0
123	Features of the structural arrest in a glass-forming polymer melt. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 521-525.	1.2	0
124	Signatures of the fast dynamics in glassy polystyrene by multi-frequency, high-field electron paramagnetic resonance of molecular guests. Journal of Non-Crystalline Solids, 2006, 352, 5029-5034.	1.5	0
125	The free-energy landscape of single-molecule polymer crystals. Philosophical Magazine, 2007, 87, 411-415.	0.7	0
126	Metallic glass-formers in 2D exhibit the same scaling as in 3D between vibrational dynamics and structural relaxation. Journal of Physics Condensed Matter, 2020, 32, 085701.	0.7	0

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127	Open and Anisotropic Soft Regions in a Model Polymer Glass. <i>Polymers</i> , 2021, 13, 1336.	2.0	0
128	Evidence of negative thermal expansion in supercooled tantala. <i>Journal of Non-Crystalline Solids</i> , 2021, 577, 121308.	1.5	0