

Ranko Richert

List of Publications by Year in descending order

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279
papers

13,549
citations

20797

60
h-index

28275

105
g-index

284
all docs

284
docs citations

284
times ranked

5357
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of glass-forming liquids. V. On the link between molecular dynamics and configurational entropy. <i>Journal of Chemical Physics</i> , 1998, 108, 9016-9026.	1.2	612
2	Heterogeneous dynamics in liquids: fluctuations in space and time. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R703-R738.	0.7	568
3	Dynamics of glass-forming liquids. I. Temperature-derivative analysis of dielectric relaxation data. <i>Journal of Chemical Physics</i> , 1995, 102, 6251-6257.	1.2	495
4	Dynamics of glass-forming liquids. II. Detailed comparison of dielectric relaxation, dc-conductivity, and viscosity data. <i>Journal of Chemical Physics</i> , 1996, 104, 2043-2055.	1.2	480
5	Dynamics of glass-forming liquids. III. Comparing the dielectric $\hat{1}$ - and $\hat{1}^2$ -relaxation of 1-propanol and o-terphenyl. <i>Journal of Chemical Physics</i> , 1997, 107, 1086-1093.	1.2	398
6	Fragility and thermodynamics in nonpolymeric glass-forming liquids. <i>Journal of Chemical Physics</i> , 2006, 125, 074505.	1.2	262
7	Dielectric Studies of the Glass Transition in Porous Media. <i>Physical Review Letters</i> , 1994, 73, 2224-2227.	2.9	225
8	Structure and dynamics of monohydroxy alcohols—Milestones towards their microscopic understanding, 100 years after Debye. <i>Physics Reports</i> , 2014, 545, 125-195.	10.3	221
9	On the existence of and mechanism for microwave-specific reaction rate enhancement. <i>Chemical Science</i> , 2015, 6, 2144-2152.	3.7	220
10	Nature of the non-exponential primary relaxation in structural glass-formers probed by dynamically selective experiments. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 1-9.	1.5	219
11	Dynamics of Nanoconfined Supercooled Liquids. <i>Annual Review of Physical Chemistry</i> , 2011, 62, 65-84.	4.8	210
12	Hole transport in 1,1-bis(4-tolylaminophenyl)cyclohexane. <i>Journal of Chemical Physics</i> , 1991, 94, 8276-8281.	1.2	207
13	Equilibrium and Non-Equilibrium Type $\hat{1}^2$ -Relaxations: $\hat{1}$ -Sorbitol versus o-Terphenyl. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4071-4077.	1.2	196
14	Poole-Frenkel behavior of charge transport in organic solids with off-diagonal disorder studied by Monte Carlo simulation. <i>Synthetic Metals</i> , 1990, 37, 271-281.	2.1	164
15	Dynamics of hydrogen-bonded liquids confined to mesopores: A dielectric and neutron spectroscopy study. <i>Journal of Chemical Physics</i> , 1995, 103, 2016-2024.	1.2	163
16	Dynamics of glass-forming liquids. VII. Dielectric relaxation of supercooled tris-naphthylbenzene, squalane, and decahydroisoquinoline. <i>Journal of Chemical Physics</i> , 2003, 118, 1828-1836.	1.2	153
17	The dielectric modulus: relaxation versus retardation. <i>Solid State Ionics</i> , 1998, 105, 167-173.	1.3	149
18	Diffusion and drift of charge carriers in a random potential: Deviation from Einstein's law. <i>Physical Review Letters</i> , 1989, 63, 547-550.	2.9	132

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19	Structural rearrangements governing Johari-Goldstein relaxations in metallic glasses. <i>Science Advances</i> , 2017, 3, e1701577.	4.7	132
20	Dielectric properties of epoxy based nanocomposites for high voltage insulation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2011, 18, 659-666.	1.8	127
21	Anomalous time-independent diffusion of charge carriers in a random potential under a bias field. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1991, 63, 587-601.	0.6	121
22	Dielectric relaxation of liquids at the surface of a porous glass. <i>Physical Review B</i> , 1995, 52, 15232-15238.	1.1	120
23	Dynamics of glass-forming liquids. IX. Structural versus dielectric relaxation in monohydroxy alcohols. <i>Journal of Chemical Physics</i> , 2004, 121, 11170.	1.2	119
24	Molecular mobility in supported thin films of polystyrene, poly(methyl methacrylate), and poly(2-vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.2	116
25	Suppression of $\langle \hat{I}^2 \rangle$ Relaxation in Vapor-Deposited Ultrastable Glasses. <i>Physical Review Letters</i> , 2015, 115, 185501.	2.9	114
26	Triplet state solvation dynamics: Basics and applications. <i>Journal of Chemical Physics</i> , 2000, 113, 8404-8429.	1.2	112
27	Comparing calorimetric and dielectric polarization modes in viscous 2-ethyl-1-hexanol. <i>Journal of Chemical Physics</i> , 2007, 126, 104503.	1.2	112
28	Evidence for Dynamic Heterogeneity near T_g from the Time-Resolved Inhomogeneous Broadening of Optical Line Shapes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 6323-6326.	1.2	108
29	Watching Hydrogen-Bonded Structures in an Alcohol Convert from Rings to Chains. <i>Physical Review Letters</i> , 2012, 109, 167802.	2.9	108
30	Dynamics of glass-forming liquids. IV. True activated behavior above 2 GHz in the dielectric $\hat{\epsilon}''$ -relaxation of organic liquids. <i>Journal of Chemical Physics</i> , 1998, 108, 6408-6415.	1.2	103
31	Nonlinear Dielectric Response and Thermodynamic Heterogeneity in Liquids. <i>Physical Review Letters</i> , 2006, 97, 095703.	2.9	102
32	Dynamics of solvation in supercooled liquids confined to the pores of sol-gel glasses. <i>Physical Review B</i> , 1996, 53, 5341-5347.	1.1	100
33	Measuring the Configurational Heat Capacity of Liquids. <i>Physical Review Letters</i> , 2007, 99, 185701.	2.9	100
34	Dispersive triplet excitation transport in organic glasses. <i>Journal of Chemical Physics</i> , 1986, 84, 3567-3572.	1.2	98
35	Nonexponential hole burning kinetics in organic glasses. <i>The Journal of Physical Chemistry</i> , 1985, 89, 4569-4574.	2.9	96
36	Solvation dynamics and the dielectric response in a glass-forming solvent: from picoseconds to seconds. <i>Chemical Physics Letters</i> , 1994, 229, 302-308.	1.2	96

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37	Progress towards processible materials for light-emitting devices using poly(p-phenylphenylenevinylene). <i>Advanced Materials</i> , 1992, 4, 661-662.	11.1	94
38	On the dielectric susceptibility spectra of supercooled o-terphenyl. <i>Journal of Chemical Physics</i> , 2005, 123, 154502.	1.2	93
39	Merging of the $\hat{\tau}_1$ and $\hat{\tau}_2$ relaxations and aging via the Johari-Goldstein modes in rapidly quenched metallic glasses. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	93
40	Prevalence of approximate τ relaxation for the dielectric $\hat{\tau}_1$ process in viscous organic liquids. <i>Journal of Chemical Physics</i> , 2009, 130, 154508.	1.2	91
41	Solvation Dynamics and Electric Field Relaxation in an Imidazolium-PF6 Ionic Liquid: From Room Temperature to the Glass Transition. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5016-5022.	1.2	88
42	Dynamics of glass-forming liquids. XIII. Microwave heating in slow motion. <i>Journal of Chemical Physics</i> , 2009, 130, 194509.	1.2	82
43	Exponential probe rotation in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2004, 120, 11082-11089.	1.2	80
44	Calorimetric versus kinetic glass transitions in viscous monohydroxy alcohols. <i>Journal of Chemical Physics</i> , 2008, 128, 084503.	1.2	80
45	Appearance of a Debye process at the conductivity relaxation frequency of a viscous liquid. <i>Journal of Chemical Physics</i> , 2011, 134, 104508.	1.2	79
46	Dynamics of supercooled melts treated in terms of the random-walk concept. <i>Journal of Physics Condensed Matter</i> , 1990, 2, 2273-2288.	0.7	78
47	Dielectric relaxation of the electric field in poly(vinyl acetate): a time domain study in the range 10^{-3} to 10^6 s. <i>Polymer</i> , 1997, 38, 255-261.	1.8	77
48	Capacitive scanning dilatometry and frequency-dependent thermal expansion of polymer films. <i>Physical Review E</i> , 2000, 61, 1755-1764.	0.8	76
49	Hopping in a Gaussian distribution of energy states: Transition from dispersive to non-dispersive transport. <i>Philosophical Magazine Letters</i> , 1989, 59, 325-331.	0.5	73
50	Merocyanine \rightarrow spiropyran transformation in a polymer matrix: An example of a dispersive chemical reaction. <i>Chemical Physics Letters</i> , 1985, 116, 302-306.	1.2	71
51	The Physics of Heating by Time-Dependent Fields: Microwaves and Water Revisited. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9909-9913.	1.2	71
52	Scaling vs. Vogel-Fulcher-type structural relaxation in deeply supercooled materials. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2000, 287, 26-36.	1.2	69
53	Debye Type Dielectric Relaxation and the Glass Transition of Alcohols. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11091-11094.	1.2	69
54	Geometrical confinement and cooperativity in supercooled liquids studied by solvation dynamics. <i>Physical Review B</i> , 1996, 54, 15762-15766.	1.1	67

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55	Nonlinear features in the dielectric behavior of propylene glycol. <i>Physical Review B</i> , 2007, 75, .	1.1	67
56	Spatial uniformity of the $\hat{\tau}^2$ -relaxation in D-sorbitol. <i>Journal of Non-Crystalline Solids</i> , 1998, 242, 19-24.	1.5	66
57	Role of Fragility in the Formation of Highly Stable Organic Glasses. <i>Physical Review Letters</i> , 2014, 113, 045901.	2.9	66
58	Spectral selectivity in the slow $\hat{\tau}^2$ -relaxation of a molecular glass. <i>Europhysics Letters</i> , 2001, 54, 767-773.	0.7	64
59	Primary and secondary relaxation time dispersions in fragile supercooled liquids. <i>Physical Review B</i> , 2007, 76, .	1.1	62
60	Molecular packing in highly stable glasses of vapor-deposited tris-naphthylbenzene isomers. <i>Journal of Chemical Physics</i> , 2012, 136, 094505.	1.2	62
61	Dynamics of a Supercooled Ionic Liquid Studied by Optical and Dielectric Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4371-4377.	1.2	61
62	Energetic relaxation of triplet excitations in vitreous benzophenone. <i>Chemical Physics Letters</i> , 1985, 118, 235-239.	1.2	60
63	Analysis of non-exponential first-order reactions. <i>Chemical Physics Letters</i> , 1985, 118, 534-538.	1.2	58
64	Anomalously large isotope effect in the glass transition of water. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17402-17407.	3.3	57
65	Dipolar solvation as a signature of dielectric responses in supercooled liquids. <i>The Journal of Physical Chemistry</i> , 1991, 95, 10115-10123.	2.9	56
66	Dielectric hole burning in the high frequency wing of supercooled glycerol. <i>Journal of Chemical Physics</i> , 2003, 118, 1356-1363.	1.2	56
67	Identification of dielectric and structural relaxations in glass-forming secondary amides. <i>Journal of Chemical Physics</i> , 2005, 123, 054516.	1.2	56
68	Heterogeneous relaxation patterns in supercooled liquids studied by solvation dynamics. <i>Physical Review E</i> , 2000, 61, 1722-1728.	0.8	55
69	Frustrated energy relaxation in an organic glass. <i>Philosophical Magazine Letters</i> , 1989, 59, 95-102.	0.5	54
70	Heterogeneous and Homogeneous Diffusivity in an Ion-Conducting Glass. <i>Physical Review Letters</i> , 1999, 83, 4337-4340.	2.9	54
71	Dielectric hole burning: Signature of dielectric and thermal relaxation time heterogeneity. <i>Journal of Chemical Physics</i> , 2003, 119, 6150-6156.	1.2	54
72	Physical Aging and Heterogeneous Dynamics. <i>Physical Review Letters</i> , 2010, 104, 085702.	2.9	54

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73	Dispersive and nondispersive charge transport in a molecularly doped polymer with superimposed energetic and positional disorder. <i>Physical Review B</i> , 1993, 47, 4289-4295.	1.1	53
74	Dipolar dynamics of low-molecular-weight organic materials in the glassy state. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 9661-9671.	0.7	53
75	Dynamics of supercooled liquids in the vicinity of soft and hard interfaces. <i>Physical Review B</i> , 2005, 71, .	1.1	53
76	Enhanced diffusivity in supercooled liquids. <i>New Journal of Physics</i> , 2007, 9, 36-36.	1.2	53
77	Origin of dispersion in dipolar relaxations of glasses. <i>Chemical Physics Letters</i> , 1993, 216, 223-227.	1.2	52
78	Intracellular Glass Transition and Liquid Dynamics in Soft Confinement. <i>Physical Review Letters</i> , 2004, 92, 095701.	2.9	52
79	Dynamics of glass-forming liquids. XVII. Dielectric relaxation and intermolecular association in a series of isomeric octyl alcohols. <i>Journal of Chemical Physics</i> , 2013, 139, 144503.	1.2	51
80	Dynamic heterogeneity, spatially distributed stretched-exponential patterns, and transient dispersions in solvation dynamics. <i>Physical Review E</i> , 1998, 58, 779-784.	0.8	49
81	Dielectric Studies Deny Existence of Ultraviscous Fragile Water. <i>Physical Review Letters</i> , 2004, 93, 215703.	2.9	49
82	Dynamics of glass-forming liquids. XV. Dynamical features of molecular liquids that form ultra-stable glasses by vapor deposition. <i>Journal of Chemical Physics</i> , 2011, 135, 124515.	1.2	49
83	Thermal stability of vapor-deposited stable glasses of an organic semiconductor. <i>Journal of Chemical Physics</i> , 2015, 142, 134504.	1.2	49
84	Dynamics of glass-forming liquids. VI. Dielectric relaxation study of neat decahydro-naphthalene. <i>Journal of Chemical Physics</i> , 2002, 117, 4414-4418.	1.2	47
85	Diluent Effects on the Debye-Type Dielectric Relaxation in Viscous Monohydroxy Alcohols. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23255-23262.	1.2	47
86	Glass Transition Dynamics and Boiling Temperatures of Molecular Liquids and Their Isomers. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3201-3207.	1.2	47
87	Molecular probing of dielectric relaxation in the glass-transition region. <i>Chemical Physics Letters</i> , 1992, 199, 355-359.	1.2	46
88	Structural Relaxation Dynamics in Binary Glass-Forming Molecular Liquids with Ideal and Complex Mixing Behavior. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3618-3622.	1.2	45
89	Purely Mechanical Solvation Dynamics in Supercooled Liquids: The α Transition of Naphthalene. <i>Journal of Physical Chemistry A</i> , 1998, 102, 5775-5781.	1.1	44
90	Fundamental Link between β Relaxation, Excess Wings, and Cage-Breaking in Metallic Glasses. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5877-5883.	2.1	44

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91	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
92	Dynamics of glass-forming liquids. XI. Fluctuating environments by dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2006, 124, 164510.	1.2	42
93	Dielectric beta relaxations in the glassy state of salol?. <i>Journal of Chemical Physics</i> , 1999, 110, 11660-11663.	1.2	41
94	Thermally stimulated modulus relaxation in polymers: method and interpretation. <i>Polymer</i> , 1997, 38, 5801-5806.	1.8	40
95	Solvation dynamics and probe rotation in glass-forming liquids. <i>Chemical Physics</i> , 2002, 284, 103-114.	0.9	40
96	Surface Induced Glass Transition in a Confined Molecular Liquid. <i>Journal of Physical Chemistry B</i> , 2003, 107, 895-898.	1.2	40
97	Binary Glass-Forming Materials: Mixtures of Sorbitol and Glycerol. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10451-10456.	1.2	40
98	Enhanced translational diffusion of rubrene in sucrose benzoate. <i>Journal of Chemical Physics</i> , 2006, 124, 014510.	1.2	40
99	Experimental studies of Debye-like process and structural relaxation in mixtures of 2-ethyl-1-hexanol and 2-ethyl-1-hexyl bromide. <i>Journal of Chemical Physics</i> , 2012, 137, 144502.	1.2	40
100	Measurement and analysis of time-domain electric field relaxation: The vitreous ionic conductor 0.4%Ca(NO ₃) ₂ ·0.6%KNO ₃ . <i>Journal of Applied Physics</i> , 1999, 85, 1750-1755.	1.1	39
101	Ideal Mixing Behavior of the Debye Process in Supercooled Monohydroxy Alcohols. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8767-8773.	1.2	38
102	Insulated electrodes for eliminating conductivity in dielectric relaxation experiments. <i>European Physical Journal B</i> , 2009, 68, 197-200.	0.6	38
103	Homogeneous dispersion of dielectric responses in a simple glass. <i>Journal of Non-Crystalline Solids</i> , 1994, 172-174, 209-213.	1.5	37
104	Dynamics of glass-forming liquids. XVIII. Does entropy control structural relaxation times?. <i>Journal of Chemical Physics</i> , 2015, 142, 044504.	1.2	37
105	Dynamics of glass-forming liquids. VIII. Dielectric signature of probe rotation and bulk dynamics in branched alkanes. <i>Journal of Chemical Physics</i> , 2004, 121, 8960-8967.	1.2	36
106	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
107	Limitations of heterogeneous models of liquid dynamics: Very slow rate exchange in the excess wing. <i>Journal of Chemical Physics</i> , 2014, 140, 054503.	1.2	35
108	Disorder-enhanced triplet exciton diffusion in condensed aromatic systems. <i>Chemical Physics Letters</i> , 1988, 143, 459-462.	1.2	34

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109	Spectroscopic line shapes in polar supercooled liquids. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3146-3150.	2.9	34
110	Rate-Memory and Dynamic Heterogeneity of First-Order Reactions in a Polymer Matrix. <i>Macromolecules</i> , 1997, 30, 4038-4041.	2.2	34
111	Observation of heterogeneity in the nanosecond dynamics of a liquid. <i>Journal of Chemical Physics</i> , 2001, 115, 2676-2680.	1.2	34
112	Dynamics of glass-forming liquids. XII. Dielectric study of primary and secondary relaxations in ethylcyclohexane. <i>Journal of Chemical Physics</i> , 2008, 128, 124505.	1.2	34
113	Time-dependent non-equilibrium exciton diffusion in an organic glass. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1984, 49, L25-L30.	0.6	33
114	Spectral diffusion in liquids with fluctuating solvent responses: Dynamical heterogeneity and rate exchange. <i>Journal of Chemical Physics</i> , 2001, 115, 1429-1434.	1.2	33
115	Why retardation takes more time than relaxation in a linear medium. <i>Physical Review E</i> , 2008, 77, 031201.	0.8	33
116	Unified Criterion for Temperature-Induced and Strain-Driven Glass Transitions in Metallic Glass. <i>Physical Review Letters</i> , 2015, 115, 135701.	2.9	33
117	Nonlinear dielectric effects in liquids: a guided tour. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 363001.	0.7	33
118	Merocyanine-spiropyran photochemical transformation in polymers probing effects of random matrices. <i>Macromolecules</i> , 1988, 21, 923-929.	2.2	32
119	Dielectric spectroscopy and dynamics in confinement. <i>European Physical Journal: Special Topics</i> , 2010, 189, 37-46.	1.2	32
120	Strain induced fragility transition in metallic glass. <i>Nature Communications</i> , 2015, 6, 7179.	5.8	32
121	Theory of time dependent optical linewidths in supercooled liquids. <i>Journal of Chemical Physics</i> , 2001, 114, 7471-7476.	1.2	30
122	Dynamics of glassy and liquid m-toluidine investigated by high-resolution dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 084508.	1.2	30
123	Heating liquid dielectrics by time dependent fields. <i>European Physical Journal B</i> , 2011, 83, 429-435.	0.6	30
124	Dynamics of glass-forming liquids. XIX. Rise and decay of field induced anisotropy in the non-linear regime. <i>Journal of Chemical Physics</i> , 2015, 143, 104504.	1.2	30
125	The relation of solvatochromism and thermochromism to the solvent dielectric constant: The basis of the E_T and E_T' polarity scales. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994, 98, 619-625.	0.9	29
126	A simple current-voltage interface for dielectric relaxation measurements in the range 10^3 to 10^7 Hz. <i>Review of Scientific Instruments</i> , 1996, 67, 3217-3221.	0.6	29

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127	Reverse calorimetry of a supercooled liquid: Propylene carbonate. <i>Thermochimica Acta</i> , 2011, 522, 28-35.	1.2	29
128	The modulus of dielectric and conductive materials and its modification by high electric fields. <i>Journal of Non-Crystalline Solids</i> , 2002, 305, 29-39.	1.5	28
129	Dynamics of glass-forming liquids. XIV. A search for ultraslow dielectric relaxation in glycerol. <i>Journal of Chemical Physics</i> , 2010, 133, 074502.	1.2	28
130	Formation of new polymorphs and control of crystallization in molecular glass-formers by electric field. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 925-931.	1.3	28
131	Cooperativity and heterogeneity of the dynamics in nano-confined liquids. <i>Journal of Physics Condensed Matter</i> , 1999, 11, A199-A206.	0.7	27
132	Solvent response and dielectric relaxation in supercooled butyronitrile. <i>Journal of Chemical Physics</i> , 2006, 125, 024504.	1.2	27
133	Solvation dynamics in supercooled liquids: the quinoxaline triplet state in 2-MTHF at the glass transition. <i>Chemical Physics Letters</i> , 1990, 171, 222-228.	1.2	26
134	Solvation dynamics versus inhomogeneity of decay rates as the origin of spectral shifts in supercooled liquids. <i>Chemical Physics Letters</i> , 1991, 176, 329-334.	1.2	26
135	Dynamic thermal expansivity near the glass transition. <i>Journal of Non-Crystalline Solids</i> , 2000, 262, 276-281.	1.5	26
136	Enthalpy recovery in glassy materials: Heterogeneous versus homogenous models. <i>Journal of Chemical Physics</i> , 2012, 136, 174515.	1.2	26
137	Dynamics of glass-forming liquids. XX. Third harmonic experiments of non-linear dielectric effects versus a phenomenological model. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	26
138	Electrorheological Source of Nonlinear Dielectric Effects in Molecular Glass-Forming Liquids. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7737-7744.	1.2	26
139	Dynamics of a polymer matrix probed by the ring closure of merocyanine. <i>Chemical Physics</i> , 1988, 122, 455-462.	0.9	25
140	Dielectric anomalies in the $\hat{\tau}^2$ -relaxation of glassy 1,4-polybutadiene. <i>Acta Polymerica</i> , 1997, 48, 484-489.	1.3	25
141	Relaxation of Second-Harmonic Generation in Guest/Host Polymers Poled by Indium-Tin Oxide Sandwich Electrodes. <i>Macromolecules</i> , 1994, 27, 4318-4326.	2.2	24
142	Dynamics of Pyrrolidinium-Based Ionic Liquids under Confinement. II. The Effects of Pore Size, Inner Surface, and Cationic Alkyl Chain Length. <i>Journal of Physical Chemistry C</i> , 2020, 124, 5395-5408.	1.5	24
143	Experimental Study of Non-Exponential Relaxation Processes in Random Organic Solids. <i>Zeitschrift Fur Physikalische Chemie</i> , 1986, 149, 63-75.	1.4	23
144	Donor/acceptor-substituted phenylenevinylenes. <i>Advanced Materials</i> , 1996, 8, 932-935.	11.1	23

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145	Non-linear dielectric signatures of entropy changes in liquids subject to time dependent electric fields. <i>Journal of Chemical Physics</i> , 2016, 144, 114501.	1.2	23
146	Dynamics of supercooled liquid and plastic crystalline ethanol: Dielectric relaxation and AC nanocalorimetry distinguish structural α - and Debye relaxation processes. <i>Journal of Chemical Physics</i> , 2017, 147, 014502.	1.2	23
147	Dynamics of glass-forming liquids. X. Dielectric relaxation of 3-bromopentane as molecular probes in 3-methylpentane. <i>Journal of Chemical Physics</i> , 2005, 123, 164504.	1.2	22
148	Dielectric study of probe rotation in viscous liquids. <i>Philosophical Magazine</i> , 2007, 87, 371-382.	0.7	22
149	Confined viscous liquids: Interfacial versus finite size effects. <i>European Physical Journal: Special Topics</i> , 2007, 141, 3-9.	1.2	22
150	Comment on "Hidden Slow Dynamics in Water". <i>Physical Review Letters</i> , 2010, 104, 249801; author reply 249802.	2.9	22
151	Heat capacity in the glass transition range modeled on the basis of heterogeneous dynamics. <i>Journal of Chemical Physics</i> , 2011, 134, 144501.	1.2	22
152	On the Derivation of Equilibrium Relaxation Times from Aging Experiments. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12689-12694.	1.2	22
153	Communication: Temperature derivative of the dielectric constant gives access to multipoint correlations in polar liquids. <i>Journal of Chemical Physics</i> , 2016, 144, 041102.	1.2	22
154	Connecting thermodynamics and dynamics in a supercooled liquid: Cresolphthalein-dimethylether. <i>Thermochimica Acta</i> , 2016, 636, 57-62.	1.2	22
155	Temperature-dependent kinetics of photophysical hole burning in a tetracene-doped mthf glass. <i>Chemical Physics Letters</i> , 1986, 127, 105-110.	1.2	21
156	Effect of dispersion on the relaxation-retardation time scale ratio. <i>Journal of Chemical Physics</i> , 2005, 123, 106101.	1.2	21
157	Dynamical and quasistatic structural relaxation paths in Pd ₄₀ Ni ₄₀ P ₂₀ glass. <i>Applied Physics Letters</i> , 2009, 95, 201903.	1.5	21
158	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
159	Quantum effects in the dynamics of deeply supercooled water. <i>Physical Review E</i> , 2015, 91, 022312.	0.8	21
160	Polarization Response of a Dielectric Continuum to a Motion of Charge. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10948-10951.	2.9	20
161	Molecular dynamics analyzed in terms of continuous measures of dynamic heterogeneity. <i>Journal of Non-Crystalline Solids</i> , 1998, 235-237, 41-47.	1.5	20
162	Comment on "Temperature divergence of the dynamics of a poly(vinyl acetate) glass: Dielectric vs. mechanical behaviors". [<i>J. Chem. Phys.</i> 136, 154901 (2012)]. <i>Journal of Chemical Physics</i> , 2013, 139, 137101.	1.2	20

#	ARTICLE	IF	CITATIONS
163	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
164	Structural recovery in plastic crystals by time-resolved non-linear dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 142, 154504.	1.2	20
165	Field induced changes in the ring/chain equilibrium of hydrogen bonded structures: 5-methyl-3-heptanol. <i>Journal of Chemical Physics</i> , 2016, 145, 074503.	1.2	20
166	Structural Relaxation and Recovery: A Dielectric Approach. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8465-8469.	2.1	20
167	Heterogeneous thermal excitation and relaxation in supercooled liquids. <i>Journal of Chemical Physics</i> , 2005, 123, 224506.	1.2	19
168	Nonlinear Dielectric Spectroscopy. <i>Advances in Dielectrics</i> , 2018, , .	1.2	19
169	Dispersive first-order reactions. I. Data analysis. <i>Chemical Physics</i> , 1994, 182, 53-59.	0.9	18
170	On the harmonic analysis of non-linear dielectric effects. <i>European Physical Journal B</i> , 2008, 66, 217-221.	0.6	18
171	Reverse dynamic calorimetry of a viscous ionic liquid. <i>Journal of Chemical Physics</i> , 2009, 131, 184501.	1.2	18
172	Correlation between Viscoelastic Moduli and Atomic Rearrangements in Metallic Glasses. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3747-3751.	2.1	18
173	Analysis of the Energy Landscape for Charge Transport in Polar Glassy Materials. <i>The Journal of Physical Chemistry</i> , 1995, 99, 17265-17268.	2.9	17
174	Dielectric hole burning in an electrical circuit analog of a dynamically heterogeneous system. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 322, 143-154.	1.2	17
175	Relaxational features of supercooled and glassy <i>m</i> -toluidine. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4729-4734.	1.5	17
176	Rate exchange rather than relaxation controls structural recovery. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 32-37.	1.3	17
177	Dynamics in Supercooled Secondary Amide Mixtures: Dielectric and Hydrogen Bond Specific Spectroscopies. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15769-15779.	1.2	16
178	Nonlinear dielectric features of highly polar glass formers: Derivatives of propylene carbonate. <i>Journal of Chemical Physics</i> , 2017, 147, 224501.	1.2	16
179	Perspective: Nonlinear approaches to structure and dynamics of soft materials. <i>Journal of Chemical Physics</i> , 2018, 149, 240901.	1.2	16
180	Dielectric Relaxation in Aqueous Solutions of Hydrazine and Hydrogen Peroxide: Water Structure Implications. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19825-19830.	1.2	15

#	ARTICLE	IF	CITATIONS
181	On the features of the dielectric response of supercooled ethylcyclohexane. Philosophical Magazine, 2008, 88, 3961-3971.	0.7	15
182	On the dynamics of liquids in their viscous regime approaching the glass transition. European Physical Journal E, 2012, 35, 65.	0.7	15
183	Frequency dependence of dielectric saturation. Physical Review E, 2013, 88, 062313.	0.8	15
184	Interpretation of dispersive hole-burning kinetics. Journal of Chemical Physics, 1987, 86, 1743-1747.	1.2	14
185	Dielectric loss spectra of organic glass formers and Chamberlin cluster model. Journal of Non-Crystalline Solids, 1997, 215, 293-300.	1.5	14
186	Mechanisms of Second Harmonic Generation Efficiency Relaxation in Poled Guest/Host Polymers. Macromolecules, 1995, 28, 2429-2438.	2.2	13
187	Dielectric spectroscopy study of myoglobin in glycerol-water mixtures. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2014, 1844, 323-329.	1.1	13
188	Dynamics of Pyrrolidinium-Based Ionic Liquids under Confinement. I. Analysis of Dielectric Permittivity. Journal of Physical Chemistry C, 2020, 124, 5389-5394.	1.5	13
189	Controlling the Columnar Order in a Discotic Liquid Crystal by Kinetic Arrest of Disc Tumbling. Chemistry of Materials, 2021, 33, 4757-4764.	3.2	13
190	Ultrastable and polyamorphic states of vapor-deposited 2-methyltetrahydrofuran. Journal of Chemical Physics, 2019, 150, 214502.	1.2	12
191	Nonexponential 2H Spin-Lattice Relaxation and Slow Translational Exchange in Disordered Systems. The Journal of Physical Chemistry, 1996, 100, 12193-12198.	2.9	11
192	Structural relaxation of glass-formers confined to sol-gel-type porous glasses. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 1392-1395.	0.9	11
193	Calorimetry based on energy absorbed from time-dependent fields. Journal of Non-Crystalline Solids, 2011, 357, 726-730.	1.5	11
194	Nonlinear Dielectric Behavior of a Secondary Relaxation: Glassy D-Sorbitol. Journal of Physical Chemistry B, 2015, 119, 8909-8916.	1.2	11
195	Probing liquid dynamics, one molecule at a time. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 4841-4842.	3.3	11
196	Experimental evidence on the effect of substrate roughness on segmental dynamics of confined polymer films. Polymer, 2020, 199, 122501.	1.8	11
197	Entropic Nature of the Debye Relaxation in Glass-Forming Monoalcohols. Journal of Physical Chemistry Letters, 2020, 11, 5792-5797.	2.1	11
198	In situ observation of fast surface dynamics during the vapor-deposition of a stable organic glass. Soft Matter, 2020, 16, 10860-10864.	1.2	11

#	ARTICLE	IF	CITATIONS
199	Rheodielectric spectroscopy on heterogeneous polymer systems ?electrorheological fluids. Colloid and Polymer Science, 1995, 273, 848-856.	1.0	10
200	Confinement effects in bulk supercooled liquids. European Physical Journal: Special Topics, 2010, 189, 223-229.	1.2	10
201	Relaxation time and excess entropy in viscous liquids: Electric field versus temperature as control parameter. Journal of Chemical Physics, 2017, 146, 064501.	1.2	10
202	Relationship between aged and vapor-deposited organic glasses: Secondary relaxations in methyl- <i>m</i> -toluate. Journal of Chemical Physics, 2019, 151, 144502.	1.2	10
203	Structural recovery and fictive variables: The fictive electric field. Thermochimica Acta, 2019, 677, 54-59.	1.2	10
204	Organic glasses with tunable liquid-crystalline order through kinetic arrest of end-over-end rotation: the case of saperconazole. Soft Matter, 2020, 16, 2025-2030.	1.2	10
205	Experimental approaches to heterogeneous dynamics. , 2011, , 152-202.		10
206	Memory Effects above T_{gin} Poled Guest/Host Polymers. Macromolecules, 1996, 29, 1266-1268.	2.2	9
207	Glass-Forming Liquids in Mesopores Probed by Solvation Dynamic and Dielectric Techniques. Materials Research Society Symposia Proceedings, 1996, 464, 33.	0.1	9
208	Solvation energy of ions and dipoles in a finite number of solvent shells. Journal of Physics Condensed Matter, 1996, 8, 6185-6190.	0.7	9
209	Comment on "Hole-Burning Experiments within Glassy Models with Infinite Range Interactions"; Physical Review Letters, 2001, 87, 129601; discussion 129603.	2.9	9
210	Solvation dynamics of molecular glass-forming liquids in confinement. Journal of Physics Condensed Matter, 2003, 15, S1041-S1050.	0.7	9
211	Dielectric responses in disordered systems: From molecules to materials. Journal of Non-Crystalline Solids, 2005, 351, 2716-2722.	1.5	9
212	Viscous nonpolar liquids in confinement studied by mechanical solvation. Journal of Chemical Physics, 2009, 131, 084710.	1.2	9
213	Time-resolved non-linear dielectric responses in molecular systems. Journal of Non-Crystalline Solids, 2010, 356, 787-793.	1.5	9
214	Dopant effects on 2-ethyl-1-hexanol: A dual-channel impedance spectroscopy and neutron scattering study. Journal of Chemical Physics, 2015, 142, 014501.	1.2	9
215	Modifying hydrogen-bonded structures by physical vapor deposition: 4-methyl-3-heptanol. Journal of Chemical Physics, 2017, 147, 194504.	1.2	9
216	Relaxations in confinement as probed by solvation dynamics. European Physical Journal Special Topics, 2000, 10, Pr7-67-Pr7-72.	0.2	9

#	ARTICLE	IF	CITATIONS
217	Two-channel impedance spectroscopy for the simultaneous measurement of two samples. Review of Scientific Instruments, 2012, 83, 033903.	0.6	8
218	Dielectric loss of poly(vinylacetate) at electric fields of 400 kV/cm. Colloid and Polymer Science, 2014, 292, 1905-1911.	1.0	8
219	Polyamorphism in vapor-deposited 2-methyltetrahydrofuran: A broadband dielectric relaxation study. Journal of Chemical Physics, 2021, 154, 024502.	1.2	8
220	Dielectric Aspects of Dipolar Solvation at the Glass Transition. , 1994, , 333-358.		7
221	Disordered Systems and Relaxation. , 1994, , 1-7.		7
222	Dispersive first-order reactions. II. Photochromic model system. Chemical Physics, 1994, 182, 61-68.	0.9	7
223	Transient polarization four-photon Raman-Scattering spectroscopy of electronic transitions in complex molecules. Journal of Luminescence, 1994, 60-61, 709-712.	1.5	7
224	From heterogeneous probe rotation to the hydrodynamic limit. Journal of Non-Crystalline Solids, 2006, 352, 4704-4709.	1.5	7
225	Solvation dynamics in viscous polymer solution: Propylene carbonate confined by poly(methylmethacrylate). Physical Review B, 2006, 74, .	1.1	7
226	Dynamic coupling of a small rigid probe to viscous <i>ortho</i> -terphenyl. Journal of Chemical Physics, 2010, 133, 214501.	1.2	7
227	Measurement of conductivity and permittivity on samples sealed in nuclear magnetic resonance tubes. Review of Scientific Instruments, 2013, 84, 073906.	0.6	7
228	Physical vapor deposition of a polyamorphic system: Triphenyl phosphite. Journal of Chemical Physics, 2020, 153, 124511.	1.2	7
229	Frequency of the AC Electric Field Determines How a Molecular Liquid Crystallizes. Journal of Physical Chemistry Letters, 2020, 11, 3975-3979.	2.1	7
230	Orientation and Dynamics of Chainlike Dipole Arrays: Donor-Acceptor-Substituted Oligophenylenevinyls in a Polymer Matrix. Macromolecules, 1999, 32, 8551-8559.	2.2	6
231	Solvation dynamics in the plastic crystal and supercooled liquid state of ethanol. Journal of Physics Condensed Matter, 2003, 15, 5429-5438.	0.7	6
232	Probing heterogeneous thermal relaxation by nonlinear dielectric spectroscopy. Journal of Physics Condensed Matter, 2007, 19, 205128.	0.7	6
233	Class Transitions in Viscous Monohydroxy Alcohols: Calorimetry Versus Dielectric Relaxation. International Journal of Thermophysics, 2008, 29, 2055-2061.	1.0	6
234	Nonresonant Spectral Hole Burning in Liquids and Solids. Advances in Dielectrics, 2018, , 127-185.	1.2	6

#	ARTICLE	IF	CITATIONS
235	Monomer and excimer triplet states in glassy phenanthrene. <i>Chemical Physics Letters</i> , 1983, 95, 13-17.	1.2	5
236	Wang and Richert Reply:. <i>Physical Review Letters</i> , 2010, 104, .	2.9	5
237	Reorientation Times for Solid-State Electrolyte Solvents and Electrolytes from NMR Spinâ€“Lattice Relaxation Studies. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3301-3304.	2.1	5
238	High electric fields elucidate the hydrogen-bonded structures in 1-phenyl-1-propanol. <i>Journal of Molecular Liquids</i> , 2021, 330, 115626.	2.3	5
239	New experimental approach to nonlinear dielectric effects in the static limit. <i>Journal of Molecular Liquids</i> , 2021, 340, 117107.	2.3	5
240	Field-induced structural ordering in electrorheological fluids. <i>Colloid and Polymer Science</i> , 1995, 273, 1156-1162.	1.0	4
241	Interfacial effects on the dynamics of cooperatively rearranging regions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997, 101, 1735-1737.	0.9	4
242	Heterogeneous solvent dynamics and time-resolved optical linewidths. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 50-56.	1.5	4
243	Heat Capacity and Entropy at the Glass Transition. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	4
244	On the features of the secondary relaxations: The case of cyclohexane derivatives. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 264-266.	1.5	4
245	Relation of Ionic Conductivity to Solvent Rotation Times in Dinitrile Plastic Crystal Solvents. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070553.	1.3	4
246	Triplet excitation transfer in glassy systems: Spatial and spectral diffusion. <i>Journal of Chemical Physics</i> , 2005, 122, 234508.	1.2	3
247	Comment on â€“Third order susceptibilities in supercooled liquids and the â€“box modelâ€™ theory versus experimentsâ€“[J. Chem. Phys. 140, 054508 (2014)]. <i>Journal of Chemical Physics</i> , 2014, 140, 247101.	1.2	3
248	Dielectric properties of vapor-deposited propylbenzenes. <i>Journal of Chemical Physics</i> , 2019, 151, 174503.	1.2	3
249	Using derivative plots to ascertain fragilities of glass-formers. <i>Journal of Non-Crystalline Solids</i> , 2021, 553, 120478.	1.5	3
250	Quantifying dielectric permittivities in the nonlinear regime. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 385101.	0.7	3
251	A liquid with distinct metastable structures: Supercooled butyronitrile. <i>Journal of Chemical Physics</i> , 2022, 156, 044501.	1.2	3
252	Structures of glasses created by multiple kinetic arrests. <i>Journal of Chemical Physics</i> , 2022, 156, 084504.	1.2	3

#	ARTICLE	IF	CITATIONS
253	<title>Dielectric relaxation under constant-charge conditions</title>. , 1997, , .		2
254	Response to "Comment on "Dynamics of glass-forming liquids. XIII. Microwave heating in slow motion" [J. Chem. Phys. 137, 027101 (2012)]. Journal of Chemical Physics, 2012, 137, .	1.2	2
255	Difficulties in Characterizing High-Resistivity Silicon. ECS Transactions, 2013, 50, 259-268.	0.3	2
256	Role of quantum fluctuations in structural dynamics of liquids of light molecules. Journal of Chemical Physics, 2016, 145, 234507.	1.2	2
257	Watching the Polymorphic Transition from a Field-Induced to a Stable Crystal by Dielectric Techniques. Crystal Growth and Design, 2020, 20, 5406-5412.	1.4	2
258	AC versus DC field effects on the crystallization behavior of a molecular liquid, vinyl ethylene carbonate (VEC). Physical Chemistry Chemical Physics, 2021, 23, 498-505.	1.3	2
259	Effects of Strong Static Fields on the Dielectric Relaxation of Supercooled Liquids. Advances in Dielectrics, 2018, , 101-125.	1.2	2
260	Silicone Materials for Electrical Insulation: A Dielectric Study of Oil Versus Gel. IEEE Transactions on Dielectrics and Electrical Insulation, 2022, 29, 501-505.	1.8	2
261	Line Narrowing Effects in Kinetics of Dispersive First-Order Reactions. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1990, 183, 283-290.	0.3	1
262	Dynamic Heterogeneity by Higher Moments of a Relaxing Quantity. Materials Research Society Symposia Proceedings, 1996, 455, 127.	0.1	1
263	Dielectric and Mechanical Relaxation of Glass-Forming Liquids in Nanopores. Materials Research Society Symposia Proceedings, 1998, 543, 15.	0.1	1
264	Response to "Comment on "On the dielectric susceptibility spectra of supercooled o-terphenyl" [J. Chem. Phys. 123, 154502 (2005)]. Journal of Chemical Physics, 2006, 124, 187102.	1.2	1
265	Wide frequency range capacitive detection of loss in a metallic cantilever using resonance and relaxation modes. Review of Scientific Instruments, 2007, 78, 053901.	0.6	1
266	Glass transition and fragility in the simple molecular glassformer CS ₂ from CS ₂ -S ₂ Cl ₂ solution studies. Journal of Chemical Physics, 2010, 132, 154505.	1.2	1
267	Control of Crystallization Pathways by Electric Fields. Advances in Dielectrics, 2020, , 149-167.	1.2	1
268	Dielectric Spectroscopy at High Electric Fields. ACS Symposium Series, 2021, , 91-104.	0.5	1
269	Bimodal crystallization rate curves of a molecular liquid with Field-Induced polymorphism. Journal of Molecular Liquids, 2021, 342, 117419.	2.3	1
270	Local Dielectric Relaxation by Solvation Dynamics. , 2003, , 571-595.		1

#	ARTICLE	IF	CITATIONS
271	Strong Increase of Correlations in Liquid Glycerol Observed by Nonlinear Dielectric Techniques . Journal of Chemical Physics, 2022, 156, 171102.	1.2	1
272	Solvation in Glassy Materials. Molecular Crystals and Liquid Crystals, 1992, 216, 61-66.	0.3	0
273	Slow Dynamics and the Glass Transition in Confining Systems. Materials Research Society Symposia Proceedings, 2003, 790, 1.	0.1	0
274	Spatially Resolved Dynamics of Supercooled Liquids Confined in Porous Glasses: Importance of the Liquid-Glass Interface. ACS Symposium Series, 2004, , 181-192.	0.5	0
275	Capacitive measurement of mercury column heights in capillaries. Review of Scientific Instruments, 2010, 81, 034702.	0.6	0
276	On the level of mechanical loss in metallic glasses. European Physical Journal B, 2011, 80, 325-329.	0.6	0
277	A new method for determining the d.c. conductivity of powdered materials. Journal of Non-Crystalline Solids: X, 2021, 11-12, 100066.	0.5	0
278	Simulation of Excitation Transport in Disordered Media. NATO ASI Series Series B: Physics, 1991, , 471-476.	0.2	0
279	Mechanical and dielectric response within and beyond the linear regime. Journal of Physics Condensed Matter, 2020, 32, 494001.	0.7	0