

Jeppe C Dyre

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2763818/jeppe-c-dyre-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209 papers	10,949 citations	53 h-index	99 g-index
220 ext. papers	11,963 ext. citations	5 avg, IF	6.94 L-index

#	Paper	IF	Citations
209	Lines of invariant physics in the isotropic phase of the discotic Gay-Berne model. <i>Journal of Non-Crystalline Solids: X</i> , 2022 , 100085	2.5	0
208	Predicting nonlinear physical aging of glasses from equilibrium relaxation via the material time.. <i>Science Advances</i> , 2022 , 8, eabl9809	14.3	4
207	Generalized hydrodynamics of the Lennard-Jones liquid in view of hidden scale invariance.. <i>Physical Review E</i> , 2021 , 104, 054126	2.4	0
206	Hidden Scale Invariance in Polydisperse Mixtures of Exponential Repulsive Particles. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 317-327	3.4	1
205	Isomorph Invariance of Higher-Order Structural Measures in Four Lennard-Jones Systems. <i>Molecules</i> , 2021 , 26,	4.8	3
204	Single-parameter aging in a binary Lennard-Jones system. <i>Journal of Chemical Physics</i> , 2021 , 154, 094504	3.9	1
203	Solid-liquid coexistence of neon, argon, krypton, and xenon studied by simulations. <i>Journal of Chemical Physics</i> , 2021 , 154, 134501	3.9	4
202	Effectively one-dimensional phase diagram of CuZr liquids and glasses. <i>Physical Review B</i> , 2021 , 103,	3.3	1
201	Time-scale ordering in hydrogen- and van der Waals-bonded liquids. <i>Journal of Chemical Physics</i> , 2021 , 154, 184508	3.9	5
200	Extreme case of density scaling: The Weeks-Chandler-Andersen system at low temperatures. <i>Physical Review E</i> , 2021 , 103, 062140	2.4	4
199	Structure of the Lennard-Jones liquid estimated from a single simulation. <i>Physical Review E</i> , 2021 , 103, 012110	2.4	2
198	Testing the isomorph invariance of the bridge functions of Yukawa one-component plasmas. <i>Journal of Chemical Physics</i> , 2021 , 154, 034501	3.9	9
197	Isomorphs in nanoconfined liquids. <i>Soft Matter</i> , 2021 , 17, 8662-8677	3.6	0
196	Identity of the local and macroscopic dynamic elastic responses in supercooled 1-propanol. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16537-16541	3.6	0
195	Does mesoscopic elasticity control viscous slowing down in glassforming liquids?. <i>Journal of Chemical Physics</i> , 2021 , 155, 074502	3.9	2
194	Mechanistic model for the dielectric spectrum of a simple dielectric material. <i>Philosophical Magazine</i> , 2020 , 100, 2556-2567	1.6	
193	The EXP pair-potential system. IV. Isotherms, isochores, and isomorphs in the two crystalline phases. <i>Journal of Chemical Physics</i> , 2020 , 152, 094505	3.9	5

192	Long-time structural relaxation of glass-forming liquids: Simple or stretched exponential?. <i>Journal of Chemical Physics</i> , 2020 , 152, 041103	3.9	5
191	Isomorph theory beyond thermal equilibrium. <i>Journal of Chemical Physics</i> , 2020 , 153, 134502	3.9	2
190	Excess-entropy scaling in supercooled binary mixtures. <i>Nature Communications</i> , 2020 , 11, 4300	17.4	22
189	Solid-like mean-square displacement in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2020 , 152, 141101	3.9	12
188	Fast contribution to the activation energy of a glass-forming liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16736-16741	11.5	5
187	Generalized single-parameter aging tests and their application to glycerol. <i>Journal of Chemical Physics</i> , 2019 , 150, 044501	3.9	7
186	Modified Entropy Scaling of the Transport Properties of the Lennard-Jones Fluid. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6345-6363	3.4	46
185	Isomorph invariance and thermodynamics of repulsive dense bi-Yukawa one-component plasmas. <i>Physics of Plasmas</i> , 2019 , 26, 053705	2.1	7
184	Assessing the utility of structure in amorphous materials. <i>Journal of Chemical Physics</i> , 2019 , 150, 114502	3.9	25
183	Hidden scale invariance at high pressures in gold and five other face-centered-cubic metal crystals. <i>Physical Review E</i> , 2019 , 99, 022142	2.4	6
182	Experimental Evidence for a State-Point-Dependent Density-Scaling Exponent of Liquid Dynamics. <i>Physical Review Letters</i> , 2019 , 122, 055501	7.4	20
181	Crystallization Instability in Glass-Forming Mixtures. <i>Physical Review X</i> , 2019 , 9,	9.1	17
180	The EXP pair-potential system. III. Thermodynamic phase diagram. <i>Journal of Chemical Physics</i> , 2019 , 150, 174501	3.9	5
179	Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019 , 151, 204502	3.9	15
178	Revisiting the Stokes-Einstein relation without a hydrodynamic diameter. <i>Journal of Chemical Physics</i> , 2019 , 150, 021101	3.9	40
177	Communication: Simple liquids' high-density viscosity. <i>Journal of Chemical Physics</i> , 2018 , 148, 081101	3.9	17
176	Phase Diagram of Kob-Andersen-Type Binary Lennard-Jones Mixtures. <i>Physical Review Letters</i> , 2018 , 120, 165501	7.4	31
175	Hydrodynamic relaxations in dissipative particle dynamics. <i>Journal of Chemical Physics</i> , 2018 , 148, 034503	3.9	1

174	Isomorph theory of physical aging. <i>Journal of Chemical Physics</i> , 2018 , 148, 154502	3.9	8
173	ROSE bitumen: Mesoscopic model of bitumen and bituminous mixtures. <i>Journal of Chemical Physics</i> , 2018 , 149, 214901	3.9	5
172	Perspective: Excess-entropy scaling. <i>Journal of Chemical Physics</i> , 2018 , 149, 210901	3.9	100
171	The EXP pair-potential system. I. Fluid phase isotherms, isochores, and quasiuniversality. <i>Journal of Chemical Physics</i> , 2018 , 149, 114501	3.9	13
170	The EXP pair-potential system. II. Fluid phase isomorphs. <i>Journal of Chemical Physics</i> , 2018 , 149, 114502	3.9	18
169	Model for the alpha and beta shear-mechanical properties of supercooled liquids and its comparison to squalane data. <i>Journal of Chemical Physics</i> , 2017 , 146, 154504	3.9	8
168	Connection between fragility, mean-squared displacement, and shear modulus in two van der Waals bonded glass-forming liquids. <i>Physical Review B</i> , 2017 , 95,	3.3	15
167	Toward broadband mechanical spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8710-8715	11.5	17
166	Density-scaling exponents and virial potential-energy correlation coefficients for the (2n, n) Lennard-Jones system. <i>Journal of Chemical Sciences</i> , 2017 , 129, 919-928	1.8	5
165	Amorphous solids: Rayleigh scattering revisited. <i>Nature Materials</i> , 2016 , 15, 1150-1151	27	3
164	Thermodynamics of freezing and melting. <i>Nature Communications</i> , 2016 , 7, 12386	17.4	55
163	Communication: Pseudoisomorphs in liquids with intramolecular degrees of freedom. <i>Journal of Chemical Physics</i> , 2016 , 145, 241103	3.9	10
162	Communication: Studies of the Lennard-Jones fluid in 2, 3, and 4 dimensions highlight the need for a liquid-state 1/d expansion. <i>Journal of Chemical Physics</i> , 2016 , 144, 231101	3.9	22
161	Thermalization calorimetry: A simple method for investigating glass transition and crystallization of supercooled liquids. <i>AIP Advances</i> , 2016 , 6, 055019	1.5	4
160	Simple liquids' quasiuniversality and the hard-sphere paradigm. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 323001	1.8	70
159	Freezing and melting line invariants of the Lennard-Jones system. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14678-90	3.6	27
158	Pair Potential That Reproduces the Shape of Isochrones in Molecular Liquids. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 7970-4	3.4	2
157	Continuum Nanofluidics. <i>Langmuir</i> , 2015 , 31, 13275-89	4	30

156	Communication: Direct tests of single-parameter aging. <i>Journal of Chemical Physics</i> , 2015 , 142, 241103	3.9	16
155	Isomorph theory prediction for the dielectric loss variation along an isochrone. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 190-195	3.9	28
154	A review of experiments testing the shoving model. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 14-22	3.9	32
153	Hidden scale invariance of metals. <i>Physical Review B</i> , 2015 , 92,	3.3	28
152	Invariants in the Yukawa system's thermodynamic phase diagram. <i>Physics of Plasmas</i> , 2015 , 22, 073705	2.1	35
151	Scaling of the dynamics of flexible Lennard-Jones chains: Effects of harmonic bonds. <i>Journal of Chemical Physics</i> , 2015 , 143, 194503	3.9	21
150	Narayanaswamy's 1971 aging theory and material time. <i>Journal of Chemical Physics</i> , 2015 , 143, 114507	3.9	14
149	Rolling Resistance Measurement and Model Development. <i>Journal of Transportation Engineering</i> , 2015 , 141, 04014075		31
148	Estimating the density-scaling exponent of a monatomic liquid from its pair potential. <i>Journal of Chemical Physics</i> , 2014 , 140, 124510	3.9	27
147	The impact range for smooth wall-liquid interactions in nanoconfined liquids. <i>Soft Matter</i> , 2014 , 10, 4324-4331	3.1	10
146	Explaining why simple liquids are quasi-universal. <i>Nature Communications</i> , 2014 , 5, 5424	17.4	53
145	The dynamic bulk modulus of three glass-forming liquids. <i>Journal of Chemical Physics</i> , 2014 , 140, 244508	3.9	7
144	Isomorph invariance of the structure and dynamics of classical crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	32
143	The mother of all pair potentials. <i>Colloid and Polymer Science</i> , 2014 , 292, 1971-1975	2.4	10
142	Oscillatory shear and high-pressure dielectric study of 5-methyl-3-heptanol. <i>Colloid and Polymer Science</i> , 2014 , 292, 1913-1921	2.4	34
141	Hidden scale invariance in condensed matter. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10007-24	3.4	137
140	Simplicity of condensed matter at its core: generic definition of a Roskilde-simple system. <i>Journal of Chemical Physics</i> , 2014 , 141, 204502	3.9	65
139	Density scaling and quasiuniversality of flow-event statistics for athermal plastic flows. <i>Physical Review E</i> , 2014 , 90, 052304	2.4	14

138	Scaling of the dynamics of flexible Lennard-Jones chains. <i>Journal of Chemical Physics</i> , 2014 , 141, 054904	3.9	39
137	Variation of the dynamic susceptibility along an isochrone. <i>Physical Review E</i> , 2014 , 90, 042310	2.4	7
136	Coöse bitumen. II. Stability of linear asphaltene nanoaggregates. <i>Journal of Chemical Physics</i> , 2014 , 141, 144308	3.9	13
135	Shear-modulus investigations of monohydroxy alcohols: evidence for a short-chain-polymer rheological response. <i>Physical Review Letters</i> , 2014 , 112, 098301	7.4	83
134	Aging of CKN: modulus versus conductivity analysis. <i>Physical Review Letters</i> , 2013 , 110, 245901	7.4	6
133	NVU perspective on simple liquids' quasiuniversality. <i>Physical Review E</i> , 2013 , 87, 022106	2.4	23
132	Do the repulsive and attractive pair forces play separate roles for the physics of liquids?. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 032101	1.8	22
131	Predicting how nanoconfinement changes the relaxation time of a supercooled liquid. <i>Physical Review Letters</i> , 2013 , 111, 235901	7.4	60
130	Generalized extended Navier-Stokes theory: correlations in molecular fluids with intrinsic angular momentum. <i>Journal of Chemical Physics</i> , 2013 , 138, 034503	3.9	9
129	Mechanical spectra of glass-forming liquids. II. Gigahertz-frequency longitudinal and shear acoustic dynamics in glycerol and DC704 studied by time-domain Brillouin scattering. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A544	3.9	45
128	Four-component united-atom model of bitumen. <i>Journal of Chemical Physics</i> , 2013 , 138, 094508	3.9	68
127	Coöse bitumen: chemical aging. <i>Journal of Chemical Physics</i> , 2013 , 139, 124506	3.9	29
126	Communication: Two measures of isochronal superposition. <i>Journal of Chemical Physics</i> , 2013 , 139, 101101	3.9	31
125	Statistical mechanics of Roskilde liquids: configurational adiabats, specific heat contours, and density dependence of the scaling exponent. <i>Journal of Chemical Physics</i> , 2013 , 139, 184506	3.9	25
124	Mechanical spectra of glass-forming liquids. I. Low-frequency bulk and shear moduli of DC704 and 5-PPE measured by piezoceramic transducers. <i>Journal of Chemical Physics</i> , 2013 , 138, 12A543	3.9	32
123	Isomorph invariance of Couette shear flows simulated by the SLLOD equations of motion. <i>Journal of Chemical Physics</i> , 2013 , 138, 154505	3.9	26
122	Isomorphs, hidden scale invariance, and quasiuniversality. <i>Physical Review E</i> , 2013 , 88, 042139	2.4	47
121	Communication: The Rosenfeld-Tarazona expression for liquids' specific heat: a numerical investigation of eighteen systems. <i>Journal of Chemical Physics</i> , 2013 , 139, 171101	3.9	24

120	Cooling by Heating Demonstrating the Significance of the Longitudinal Specific Heat. <i>Physical Review X</i> , 2012 , 2,	9.1	3
119	What Is a Simple Liquid?. <i>Physical Review X</i> , 2012 , 2,	9.1	85
118	CO2 Emission Reduction by Exploitation of Rolling Resistance Modelling of Pavements. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 48, 311-320		7
117	Isomorphs in model molecular liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1018-34	3.4	48
116	Isomorphs in the phase diagram of a model liquid without inverse power law repulsion. <i>European Physical Journal B</i> , 2012 , 85, 1	1.2	15
115	Simplistic Coulomb forces in molecular dynamics: comparing the Wolf and shifted-force approximations. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5738-43	3.4	44
114	Scaling of viscous dynamics in simple liquids: theory, simulation and experiment. <i>New Journal of Physics</i> , 2012 , 14, 113035	2.9	99
113	Communication: thermodynamics of condensed matter with strong pressure-energy correlations. <i>Journal of Chemical Physics</i> , 2012 , 136, 061102	3.9	62
112	Energy conservation in molecular dynamics simulations of classical systems. <i>Journal of Chemical Physics</i> , 2012 , 136, 224106	3.9	24
111	Shear and dielectric responses of propylene carbonate, tripropylene glycol, and a mixture of two secondary amides. <i>Journal of Chemical Physics</i> , 2012 , 137, 064508	3.9	33
110	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	3.9	36
109	NVU dynamics. III. Simulating molecules at constant potential energy. <i>Journal of Chemical Physics</i> , 2012 , 137, 244101	3.9	6
108	Measurement of the four-point susceptibility of an out-of-equilibrium colloidal solution of nanoparticles using time-resolved light scattering. <i>Physical Review Letters</i> , 2012 , 109, 097401	7.4	10
107	Dynamic thermal expansivity of liquids near the glass transition. <i>Physical Review E</i> , 2012 , 85, 041501	2.4	23
106	Communication: Identical temperature dependence of the time scales of several linear-response functions of two glass-forming liquids. <i>Journal of Chemical Physics</i> , 2012 , 136, 081102	3.9	40
105	The instantaneous shear modulus in the shoving model. <i>Journal of Chemical Physics</i> , 2012 , 136, 224108	3.9	56
104	Pressure-energy correlations in liquids. V. Isomorphs in generalized Lennard-Jones systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 164505	3.9	90
103	Strongly correlating liquids and their isomorphs. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 320-328	3.9	35

102	A combined measurement of thermal and mechanical relaxation. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 346-350	3.9	3
101	Beta relaxation in the shear mechanics of viscous liquids: Phenomenology and network modeling of the alpha-beta merging region. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 267-273	3.9	19
100	Predicting the density-scaling exponent of a glass-forming liquid from PrigogineDefay ratio measurements. <i>Nature Physics</i> , 2011 , 7, 816-821	16.2	108
99	Nanoflow hydrodynamics. <i>Physical Review E</i> , 2011 , 84, 036311	2.4	27
98	Simulations of Crystallization in Supercooled Nanodroplets in the Presence of a Strong Exothermic Solute. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12808-12814	3.8	6
97	Communication: Shifted forces in molecular dynamics. <i>Journal of Chemical Physics</i> , 2011 , 134, 081102	3.9	109
96	NVU dynamics. I. Geodesic motion on the constant-potential-energy hypersurface. <i>Journal of Chemical Physics</i> , 2011 , 135, 104101	3.9	16
95	NVU dynamics. II. Comparing to four other dynamics. <i>Journal of Chemical Physics</i> , 2011 , 135, 104102	3.9	13
94	Role of the first coordination shell in determining the equilibrium structure and dynamics of simple liquids. <i>Journal of Chemical Physics</i> , 2011 , 135, 134501	3.9	27
93	Predicting the effective temperature of a glass. <i>Physical Review Letters</i> , 2010 , 104, 125902	7.4	36
92	An electrical circuit model of the alpha-beta merging seen in dielectric relaxation of ultraviscous liquids. <i>Journal of Chemical Physics</i> , 2010 , 132, 024503	3.9	15
91	Generalized fluctuation-dissipation relation and effective temperature in off-equilibrium colloids. <i>Physical Review B</i> , 2010 , 81,	3.3	24
90	Physical aging of molecular glasses studied by a device allowing for rapid thermal equilibration. <i>Journal of Chemical Physics</i> , 2010 , 133, 174514	3.9	72
89	Repulsive reference potential reproducing the dynamics of a liquid with attractions. <i>Physical Review Letters</i> , 2010 , 105, 157801	7.4	88
88	Correlated volume-energy fluctuations of phospholipid membranes: a simulation study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2124-30	3.4	15
87	Aging effects manifested in the potential-energy landscape of a model glass former. <i>Physical Review E</i> , 2010 , 82, 021503	2.4	19
86	Connection between slow and fast dynamics of molecular liquids around the glass transition. <i>Physical Review E</i> , 2010 , 82, 021508	2.4	28
85	Geometry of slow structural fluctuations in a supercooled binary alloy. <i>Physical Review Letters</i> , 2010 , 104, 105701	7.4	94

84	Time reversible molecular dynamics algorithms with holonomic bond constraints in the NPH and NPT ensembles using molecular scaling. <i>Journal of Chemical Physics</i> , 2010 , 132, 154106	3.9	5
83	Time-reversible molecular dynamics algorithms with bond constraints. <i>Journal of Chemical Physics</i> , 2009 , 131, 064102	3.9	15
82	Exponential distributions of collective flow-event properties in viscous liquid dynamics. <i>Physical Review Letters</i> , 2009 , 102, 055701	7.4	13
81	Stability of supercooled binary liquid mixtures. <i>Journal of Chemical Physics</i> , 2009 , 130, 224501	3.9	63
80	A brief critique of the Adam-Gibbs entropy model. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 624-627	3.9	61
79	Fundamental questions relating to ion conduction in disordered solids. <i>Reports on Progress in Physics</i> , 2009 , 72, 046501	14.4	306
78	Pressure-energy correlations in liquids. III. Statistical mechanics and thermodynamics of liquids with hidden scale invariance. <i>Journal of Chemical Physics</i> , 2009 , 131, 234503	3.9	96
77	Prevalence of approximate square root(t) relaxation for the dielectric α process in viscous organic liquids. <i>Journal of Chemical Physics</i> , 2009 , 130, 154508	3.9	69
76	Hidden scale invariance in molecular van der Waals liquids: a simulation study. <i>Physical Review E</i> , 2009 , 80, 041502	2.4	75
75	Pressure-energy correlations in liquids. IV. "Isomorphs" in liquid phase diagrams. <i>Journal of Chemical Physics</i> , 2009 , 131, 234504	3.9	246
74	Little evidence for dynamic divergences in ultraviscous molecular liquids. <i>Nature Physics</i> , 2008 , 4, 737-741	16.2	275
73	Strong pressure-energy correlations in van der Waals liquids. <i>Physical Review Letters</i> , 2008 , 100, 015701	7.4	141
72	Supercooled liquid dynamics studied via shear-mechanical spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16320-5	3.4	56
71	An impedance-measurement setup optimized for measuring relaxations of glass-forming liquids. <i>Review of Scientific Instruments</i> , 2008 , 79, 045106	1.7	29
70	Pressure-energy correlations in liquids. II. Analysis and consequences. <i>Journal of Chemical Physics</i> , 2008 , 129, 184508	3.9	154
69	Pressure dependence of the dielectric loss minimum slope for ten molecular liquids. <i>Philosophical Magazine</i> , 2008 , 88, 4101-4108	1.6	12
68	Investigation of the shear-mechanical and dielectric relaxation processes in two monoalcohols close to the glass transition. <i>Journal of Chemical Physics</i> , 2008 , 129, 184502	3.9	83
67	Pressure-energy correlations in liquids. I. Results from computer simulations. <i>Journal of Chemical Physics</i> , 2008 , 129, 184507	3.9	183

66	Glass-forming liquids: one or more order parameters?. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 244113	1.8	28
65	A cryostat and temperature control system optimized for measuring relaxations of glass-forming liquids. <i>Review of Scientific Instruments</i> , 2008 , 79, 045105	1.7	32
64	Feasibility of a single-parameter description of equilibrium viscous liquid dynamics. <i>Physical Review E</i> , 2008 , 77, 011201	2.4	44
63	Solution of the spherically symmetric linear thermoviscoelastic problem in the inertia-free limit. <i>Physical Review E</i> , 2008 , 78, 021501	2.4	14
62	ac Hopping conduction at extreme disorder takes place on the percolating cluster. <i>Physical Review Letters</i> , 2008 , 101, 025901	7.4	61
61	Mysteries of the glass transition. <i>Physics Today</i> , 2008 , 61, 15-15	0.9	5
60	Volume-Energy Correlations in the Slow Degrees of Freedom of Computer-Simulated Phospholipid Membranes. <i>AIP Conference Proceedings</i> , 2008 ,	0	3
59	Can the Frequency Dependent Isobaric Specific Heat be Measured by Thermal Effusion Methods?. <i>AIP Conference Proceedings</i> , 2008 ,	0	5
58	Solidity of viscous liquids. V. Long-wavelength dominance of the dynamics. <i>Physical Review E</i> , 2007 , 76, 041508	2.4	7
57	Ten themes of viscous liquid dynamics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 205105	1.8	18
56	Conventional methods fail to measure $c_p(\omega)$ of glass-forming liquids. <i>Physical Review E</i> , 2007 , 75, 041502	2.4	34
55	Dominance of shear elastic energy far from a point defect in a solid. <i>Physical Review B</i> , 2007 , 75,	3.3	19
54	Violations of conservation laws in viscous liquid dynamics. <i>Philosophical Magazine</i> , 2007 , 87, 497-502	1.6	1
53	Single-order-parameter description of glass-forming liquids: a one-frequency test. <i>Journal of Chemical Physics</i> , 2007 , 126, 074502	3.9	35
52	Elastic Models for the Non-Arrhenius Relaxation Time of Glass-Forming Liquids. <i>AIP Conference Proceedings</i> , 2006 ,	0	4
51	Colloquium: The glass transition and elastic models of glass-forming liquids. <i>Reviews of Modern Physics</i> , 2006 , 78, 953-972	40.5	884
50	Solidity of viscous liquids. IV. Density fluctuations. <i>Physical Review E</i> , 2006 , 74, 021502	2.4	23
49	Elastic models for the non-Arrhenius viscosity of glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 4635-4642	3.9	73

48	An energy landscape model for glass-forming liquids in three dimensions. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5210-5215	3.9	2
47	A model for the generic alpha relaxation of viscous liquids. <i>Europhysics Letters</i> , 2005 , 71, 646-650	1.6	14
46	Solidity of viscous liquids. III. alpha relaxation. <i>Physical Review E</i> , 2005 , 72, 011501	2.4	17
45	Landscape equivalent of the shoving model. <i>Physical Review E</i> , 2004 , 69, 042501	2.4	92
44	Is there a relative band gap in ion conducting glasses?. <i>Journal of Non-Crystalline Solids</i> , 2003 , 324, 192-195	3.9	21
43	Minimal model for Beta relaxation in viscous liquids. <i>Physical Review Letters</i> , 2003 , 91, 155703	7.4	90
42	Hopping Models and ac Universality. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 230, 5-13	1.3	44
41	Computer simulations of the random barrier model. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3173-3178	3.7	31
40	Time-temperature superposition in viscous liquids. <i>Physical Review Letters</i> , 2001 , 86, 1271-4	7.4	131
39	Universality of ac conduction in disordered solids. <i>Reviews of Modern Physics</i> , 2000 , 72, 873-892	40.5	1008
38	beta relaxation of nonpolymeric liquids close to the glass transition. <i>Physical Review E</i> , 2000 , 62, 4435-8	2.4	56
37	Scaling and universality of ac conduction in disordered solids. <i>Physical Review Letters</i> , 2000 , 84, 310-3	7.4	194
36	Crossover to potential energy landscape dominated dynamics in a model glass-forming liquid. <i>Journal of Chemical Physics</i> , 2000 , 112, 9834-9840	3.9	262
35	Solidity of viscous liquids. II. Anisotropic flow events. <i>Physical Review E</i> , 1999 , 59, 7243-5	2.4	17
34	Potential energy landscape signatures of slow dynamics in glass forming liquids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 270, 301-308	3.3	42
33	Solidity of viscous liquids. <i>Physical Review E</i> , 1999 , 59, 2458-2459	2.4	52
32	Source of non-Arrhenius average relaxation time in glass-forming liquids. <i>Journal of Non-Crystalline Solids</i> , 1998 , 235-237, 142-149	3.9	113
31	Hopping in a supercooled binary Lennard-Jones liquid. <i>Journal of Non-Crystalline Solids</i> , 1998 , 235-237, 331-334	3.9	26

- 30 Structural Relaxation Monitored by Instantaneous Shear Modulus. *Physical Review Letters*, **1998**, 81, 1034-1035
- 29 Local elastic expansion model for viscous-flow activation energies of glass-forming molecular liquids. *Physical Review B*, **1996**, 53, 2171-2174 3.3 253
- 28 Universality of anomalous diffusion in extremely disordered systems. *Chemical Physics*, **1996**, 212, 61-68 2.3 12
- 27 Effective one-dimensionality of universal ac hopping conduction in the extreme disorder limit. *Physical Review B*, **1996**, 54, 14884-14887 3.3 20
- 26 Comment on "Dynamic viscosity of a simple glass-forming liquid". *Physical Review Letters*, **1996**, 76, 1553-1554 3.4 14
- 25 Fluctuation-dissipation theorem for frequency-dependent specific heat. *Physical Review B*, **1996**, 54, 15754-15761 3.3 44
- 24 Universal time dependence of the mean-square displacement in extremely rugged energy landscapes with equal minima. *Physical Review E*, **1995**, 52, 2429-2433 2.4 7
- 23 Energy master equation: A low-temperature approximation to Bässler's random-walk model. *Physical Review B*, **1995**, 51, 12276-12294 3.3 97
- 22 Lunar phase influence on global temperatures. *Science*, **1995**, 269, 1284-5 3.3 6
- 21 Studies of ac hopping conduction at low temperatures. *Physical Review B*, **1994**, 49, 11709-11720 3.3 33
- 20 An algorithm for fast determination of complex moduli. *Journal of Rheology*, **1994**, 38, 1179-1193 4.1 1
- 19 Low temperature universality in computer simulations of the macroscopic model for ac conduction in disordered solids. *Journal of Non-Crystalline Solids*, **1994**, 172-174, 1419-1423 3.9 4
- 18 Universal low-temperature ac conductivity of macroscopically disordered nonmetals. *Physical Review B*, **1993**, 48, 12511-12526 3.3 119
- 17 Langevin models for shear-stress fluctuations in flows of viscoelastic liquids. *Physical Review E*, **1993**, 48, 400-407 2.4 3
- 16 What is a gel? *Makromolekulare Chemie Macromolecular Symposia*, **1993**, 76, 49-51 2.0
- 15 Universal ac conductivity of nonmetallic disordered solids at low temperatures. *Physical Review B*, **1993**, 47, 9128-9131 3.3 32
- 14 Some remarks on ac conduction in disordered solids. *Journal of Non-Crystalline Solids*, **1991**, 135, 219-226 3.9 165
- 13 A zero-parameter constitutive relation for simple shear viscoelasticity. *Rheologica Acta*, **1990**, 29, 145-151 3.3 7

12	Maximum-entropy ansatz for nonlinear-response theory. <i>Physical Review A</i> , 1989 , 40, 2207-2210	2.6	5
11	Correlation effects in ionic conductivity. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1989 , 15, 345-365	10.1	43
10	The random free-energy barrier model for ac conduction in disordered solids. <i>Journal of Applied Physics</i> , 1988 , 64, 2456-2468	2.5	761
9	Unified formalism for excess current noise in random-walk models. <i>Physical Review B</i> , 1988 , 37, 10143-10149	3.49	9
8	A phenomenological model for the Meyer-Neldel rule: erratum. <i>Journal of Physics C: Solid State Physics</i> , 1988 , 21, 2431-2434		12
7	Master-equation approach to the glass transition. <i>Physical Review Letters</i> , 1987 , 58, 792-795	7.4	114
6	Correlation effects in tracer diffusion and ionic conductivity. II. <i>Solid State Ionics</i> , 1986 , 21, 139-142	3.3	7
5	Correlation effects in tracer diffusion and ionic conductivity. <i>Solid State Ionics</i> , 1986 , 20, 203-207	3.3	9
4	A phenomenological model for the Meyer-Neldel rule. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5655-5664		125
3	On the mechanism of glass ionic conductivity. <i>Journal of Non-Crystalline Solids</i> , 1986 , 88, 271-280	3.9	56
2	A simple model of ac hopping conductivity in disordered solids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1985 , 108, 457-461	2.3	110
1	A SIMPLE MODEL OF ac HOPPING CONDUCTIVITY. <i>Journal De Physique Colloque</i> , 1985 , 46, C8-343-C8-347		5