

Jeppe C Dyre

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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	Universality of ac conduction in disordered solids. <i>Reviews of Modern Physics</i> , 2000 , 72, 873-892	40.5	1008
208	Colloquium: The glass transition and elastic models of glass-forming liquids. <i>Reviews of Modern Physics</i> , 2006 , 78, 953-972	40.5	884
207	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
206	Fundamental questions relating to ion conduction in disordered solids. <i>Reports on Progress in Physics</i> , 2009 , 72, 046501	14.4	306
205	Little evidence for dynamic divergences in ultraviscous molecular liquids. <i>Nature Physics</i> , 2008 , 4, 737-741	16.2	275
204	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
203	Local elastic expansion model for viscous-flow activation energies of glass-forming molecular liquids. <i>Physical Review B</i> , 1996 , 53, 2171-2174	3.3	253
202	Pressure-energy correlations in liquids. IV. "Isomorphs" in liquid phase diagrams. <i>Journal of Chemical Physics</i> , 2009 , 131, 234504	3.9	246
201	Scaling and universality of ac conduction in disordered solids. <i>Physical Review Letters</i> , 2000 , 84, 310-3	7.4	194
200	Pressure-energy correlations in liquids. I. Results from computer simulations. <i>Journal of Chemical Physics</i> , 2008 , 129, 184507	3.9	183
199	Some remarks on ac conduction in disordered solids. <i>Journal of Non-Crystalline Solids</i> , 1991 , 135, 219-226	6.9	165
198	Pressure-energy correlations in liquids. II. Analysis and consequences. <i>Journal of Chemical Physics</i> , 2008 , 129, 184508	3.9	154
197	Strong pressure-energy correlations in van der Waals liquids. <i>Physical Review Letters</i> , 2008 , 100, 015701	7.4	141
196	Hidden scale invariance in condensed matter. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 10007-24	3.4	137
195	Time-temperature superposition in viscous liquids. <i>Physical Review Letters</i> , 2001 , 86, 1271-4	7.4	131
194	A phenomenological model for the Meyer-Neldel rule. <i>Journal of Physics C: Solid State Physics</i> , 1986 , 19, 5655-5664		125
193	Universal low-temperature ac conductivity of macroscopically disordered nonmetals. <i>Physical Review B</i> , 1993 , 48, 12511-12526	3.3	119

192	Master-equation approach to the glass transition. <i>Physical Review Letters</i> , 1987 , 58, 792-795	7.4	114
191	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
190	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
189	Communication: Shifted forces in molecular dynamics. <i>Journal of Chemical Physics</i> , 2011 , 134, 081102	3.9	109
188	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
187	Perspective: Excess-entropy scaling. <i>Journal of Chemical Physics</i> , 2018 , 149, 210901	3.9	100
186	Scaling of viscous dynamics in simple liquids: theory, simulation and experiment. <i>New Journal of Physics</i> , 2012 , 14, 113035	2.9	99
185	Energy master equation: A low-temperature approximation to B��sler's random-walk model. <i>Physical Review B</i> , 1995 , 51, 12276-12294	3.3	97
184	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
183	Geometry of slow structural fluctuations in a supercooled binary alloy. <i>Physical Review Letters</i> , 2010 , 104, 105701	7.4	94
182	Landscape equivalent of the shoving model. <i>Physical Review E</i> , 2004 , 69, 042501	2.4	92
181	Pressure-energy correlations in liquids. V. Isomorphs in generalized Lennard-Jones systems. <i>Journal of Chemical Physics</i> , 2011 , 134, 164505	3.9	90
180	Minimal model for Beta relaxation in viscous liquids. <i>Physical Review Letters</i> , 2003 , 91, 155703	7.4	90
179	Repulsive reference potential reproducing the dynamics of a liquid with attractions. <i>Physical Review Letters</i> , 2010 , 105, 157801	7.4	88
178	What Is a Simple Liquid?. <i>Physical Review X</i> , 2012 , 2,	9.1	85
177	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
176	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
175	Hidden scale invariance in molecular van der Waals liquids: a simulation study. <i>Physical Review E</i> , 2009 , 80, 041502	2.4	75

174	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
173	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
172	Simple liquids' quasiuniversality and the hard-sphere paradigm. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 323001	1.8	70
171	Prevalence of approximate square root(t) relaxation for the dielectric alpha process in viscous organic liquids. <i>Journal of Chemical Physics</i> , 2009 , 130, 154508	3.9	69
170	Four-component united-atom model of bitumen. <i>Journal of Chemical Physics</i> , 2013 , 138, 094508	3.9	68
169	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
168	Stability of supercooled binary liquid mixtures. <i>Journal of Chemical Physics</i> , 2009 , 130, 224501	3.9	63
167	Communication: thermodynamics of condensed matter with strong pressure-energy correlations. <i>Journal of Chemical Physics</i> , 2012 , 136, 061102	3.9	62
166	A brief critique of the Adam-Gibbs entropy model. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 624-627	3.9	61
165	ac Hopping conduction at extreme disorder takes place on the percolating cluster. <i>Physical Review Letters</i> , 2008 , 101, 025901	7.4	61
164	Predicting how nanoconfinement changes the relaxation time of a supercooled liquid. <i>Physical Review Letters</i> , 2013 , 111, 235901	7.4	60
163	Structural Relaxation Monitored by Instantaneous Shear Modulus. <i>Physical Review Letters</i> , 1998 , 81, 1037-1039	7.4	57
162	The instantaneous shear modulus in the shoving model. <i>Journal of Chemical Physics</i> , 2012 , 136, 224108	3.9	56
161	Supercooled liquid dynamics studied via shear-mechanical spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 16320-5	3.4	56
160	beta relaxation of nonpolymeric liquids close to the glass transition. <i>Physical Review E</i> , 2000 , 62, 4435-8	2.4	56
159	On the mechanism of glass ionic conductivity. <i>Journal of Non-Crystalline Solids</i> , 1986 , 88, 271-280	3.9	56
158	Thermodynamics of freezing and melting. <i>Nature Communications</i> , 2016 , 7, 12386	17.4	55
157	Explaining why simple liquids are quasi-universal. <i>Nature Communications</i> , 2014 , 5, 5424	17.4	53

156	Solidity of viscous liquids. <i>Physical Review E</i> , 1999 , 59, 2458-2459	2.4	52
155	Isomorphs in model molecular liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1018-34	3.4	48
154	Isomorphs, hidden scale invariance, and quasiuniversality. <i>Physical Review E</i> , 2013 , 88, 042139	2.4	47
153	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
152	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
151	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
150	Feasibility of a single-parameter description of equilibrium viscous liquid dynamics. <i>Physical Review E</i> , 2008 , 77, 011201	2.4	44
149	Hopping Models and ac Universality. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 230, 5-13	1.3	44
148	Fluctuation-dissipation theorem for frequency-dependent specific heat. <i>Physical Review B</i> , 1996 , 54, 15754-15761	3.3	44
147	Correlation effects in ionic conductivity. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1989 , 15, 345-365	10.1	43
146	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
145	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
144	Revisiting the Stokes-Einstein relation without a hydrodynamic diameter. <i>Journal of Chemical Physics</i> , 2019 , 150, 021101	3.9	40
143	Scaling of the dynamics of flexible Lennard-Jones chains. <i>Journal of Chemical Physics</i> , 2014 , 141, 054904	3.9	39
142	Predicting the effective temperature of a glass. <i>Physical Review Letters</i> , 2010 , 104, 125902	7.4	36
141	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
140	Invariants in the Yukawa system's thermodynamic phase diagram. <i>Physics of Plasmas</i> , 2015 , 22, 073705	2.1	35
139	Strongly correlating liquids and their isomorphs. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 320-328	3.9	35

138	Single-order-parameter description of glass-forming liquids: a one-frequency test. <i>Journal of Chemical Physics</i> , 2007 , 126, 074502	3.9	35
137	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
136	Conventional methods fail to measure $\text{cp}(\omega)$ of glass-forming liquids. <i>Physical Review E</i> , 2007 , 75, 041502	2.4	34
135	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
134	Studies of ac hopping conduction at low temperatures. <i>Physical Review B</i> , 1994 , 49, 11709-11720	3.3	33
133	A review of experiments testing the shoving model. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 14-22	3.9	32
132	Isomorph invariance of the structure and dynamics of classical crystals. <i>Physical Review B</i> , 2014 , 90,	3.3	32
131	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
130	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
129	Universal ac conductivity of nonmetallic disordered solids at low temperatures. <i>Physical Review B</i> , 1993 , 47, 9128-9131	3.3	32
128	Phase Diagram of Kob-Andersen-Type Binary Lennard-Jones Mixtures. <i>Physical Review Letters</i> , 2018 , 120, 165501	7.4	31
127	Rolling Resistance Measurement and Model Development. <i>Journal of Transportation Engineering</i> , 2015 , 141, 04014075		31
126	Communication: Two measures of isochronal superposition. <i>Journal of Chemical Physics</i> , 2013 , 139, 101101	3.9	31
125	Computer simulations of the random barrier model. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3173-3178	3.7	31
124	Continuum Nanofluidics. <i>Langmuir</i> , 2015 , 31, 13275-89	4	30
123	Coee bitumen: chemical aging. <i>Journal of Chemical Physics</i> , 2013 , 139, 124506	3.9	29
122	An impedance-measurement setup optimized for measuring relaxations of glass-forming liquids. <i>Review of Scientific Instruments</i> , 2008 , 79, 045106	1.7	29
121	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

120	Hidden scale invariance of metals. <i>Physical Review B</i> , 2015 , 92,	3.3	28
119	Connection between slow and fast dynamics of molecular liquids around the glass transition. <i>Physical Review E</i> , 2010 , 82, 021508	2.4	28
118	Glass-forming liquids: one or more order parameters?. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 244113	1.8	28
117	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
116	Nanoflow hydrodynamics. <i>Physical Review E</i> , 2011 , 84, 036311	2.4	27
115	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
114	Freezing and melting line invariants of the Lennard-Jones system. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14678-90	3.6	27
113	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
112	Hopping in a supercooled binary Lennard-Jones liquid. <i>Journal of Non-Crystalline Solids</i> , 1998 , 235-237, 331-334	3.9	26
111	Assessing the utility of structure in amorphous materials. <i>Journal of Chemical Physics</i> , 2019 , 150, 114502	3.9	25
110	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
109	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
108	Generalized fluctuation-dissipation relation and effective temperature in off-equilibrium colloids. <i>Physical Review B</i> , 2010 , 81,	3.3	24
107	Energy conservation in molecular dynamics simulations of classical systems. <i>Journal of Chemical Physics</i> , 2012 , 136, 224106	3.9	24
106	NVU perspective on simple liquids' quasiuniversality. <i>Physical Review E</i> , 2013 , 87, 022106	2.4	23
105	Dynamic thermal expansivity of liquids near the glass transition. <i>Physical Review E</i> , 2012 , 85, 041501	2.4	23
104	Solidity of viscous liquids. IV. Density fluctuations. <i>Physical Review E</i> , 2006 , 74, 021502	2.4	23
103	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

102	Excess-entropy scaling in supercooled binary mixtures. <i>Nature Communications</i> , 2020 , 11, 4300	17.4	22
101	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
100	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
99	Is there a flat band gap in ion conducting glasses?. <i>Journal of Non-Crystalline Solids</i> , 2003 , 324, 192-195	3.9	21
98	Experimental Evidence for a State-Point-Dependent Density-Scaling Exponent of Liquid Dynamics. <i>Physical Review Letters</i> , 2019 , 122, 055501	7.4	20
97	Effective one-dimensionality of universal ac hopping conduction in the extreme disorder limit. <i>Physical Review B</i> , 1996 , 54, 14884-14887	3.3	20
96	What is a gel? <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993 , 76, 49-51		20
95	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
94	Aging effects manifested in the potential-energy landscape of a model glass former. <i>Physical Review E</i> , 2010 , 82, 021503	2.4	19
93	Dominance of shear elastic energy far from a point defect in a solid. <i>Physical Review B</i> , 2007 , 75,	3.3	19
92	Ten themes of viscous liquid dynamics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 205105	1.8	18
91	The EXP pair-potential system. II. Fluid phase isomorphs. <i>Journal of Chemical Physics</i> , 2018 , 149, 114502	3.9	18
90	Communication: Simple liquids' high-density viscosity. <i>Journal of Chemical Physics</i> , 2018 , 148, 081101	3.9	17
89	Crystallization Instability in Glass-Forming Mixtures. <i>Physical Review X</i> , 2019 , 9,	9.1	17
88	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
87	Solidity of viscous liquids. III. alpha relaxation. <i>Physical Review E</i> , 2005 , 72, 011501	2.4	17
86	Solidity of viscous liquids. II. Anisotropic flow events. <i>Physical Review E</i> , 1999 , 59, 7243-5	2.4	17
85	Communication: Direct tests of single-parameter aging. <i>Journal of Chemical Physics</i> , 2015 , 142, 241103	3.9	16

84	NVU dynamics. I. Geodesic motion on the constant-potential-energy hypersurface. <i>Journal of Chemical Physics</i> , 2011 , 135, 104101	3.9	16
83	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
82	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
81	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
80	Correlated volume-energy fluctuations of phospholipid membranes: a simulation study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 2124-30	3.4	15
79	Time-reversible molecular dynamics algorithms with bond constraints. <i>Journal of Chemical Physics</i> , 2009 , 131, 064102	3.9	15
78	Transport coefficients of the Lennard-Jones fluid close to the freezing line. <i>Journal of Chemical Physics</i> , 2019 , 151, 204502	3.9	15
77	Narayanaswamy's 1971 aging theory and material time. <i>Journal of Chemical Physics</i> , 2015 , 143, 114507	3.9	14
76	Density scaling and quasiuniversality of flow-event statistics for athermal plastic flows. <i>Physical Review E</i> , 2014 , 90, 052304	2.4	14
75	Solution of the spherically symmetric linear thermoviscoelastic problem in the inertia-free limit. <i>Physical Review E</i> , 2008 , 78, 021501	2.4	14
74	A model for the generic alpha relaxation of viscous liquids. <i>Europhysics Letters</i> , 2005 , 71, 646-650	1.6	14
73	Comment on "Dynamic viscosity of a simple glass-forming liquid". <i>Physical Review Letters</i> , 1996 , 76, 15537.4	7.4	14
72	Cooee bitumen. II. Stability of linear asphaltene nanoaggregates. <i>Journal of Chemical Physics</i> , 2014 , 141, 144308	3.9	13
71	Exponential distributions of collective flow-event properties in viscous liquid dynamics. <i>Physical Review Letters</i> , 2009 , 102, 055701	7.4	13
70	NVU dynamics. II. Comparing to four other dynamics. <i>Journal of Chemical Physics</i> , 2011 , 135, 104102	3.9	13
69	The EXP pair-potential system. I. Fluid phase isotherms, isochores, and quasiuniversality. <i>Journal of Chemical Physics</i> , 2018 , 149, 114501	3.9	13
68	Pressure dependence of the dielectric loss minimum slope for ten molecular liquids. <i>Philosophical Magazine</i> , 2008 , 88, 4101-4108	1.6	12
67	Universality of anomalous diffusion in extremely disordered systems. <i>Chemical Physics</i> , 1996 , 212, 61-682.3	2.3	12

66	A phenomenological model for the Meyer-Neldel rule: erratum. <i>Journal of Physics C: Solid State Physics</i> , 1988 , 21, 2431-2434		12
65	Solid-like mean-square displacement in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2020 , 152, 141101	3.9	12
64	The impact range for smooth wall-liquid interactions in nanoconfined liquids. <i>Soft Matter</i> , 2014 , 10, 4324-4331	3.1	10
63	The mother of all pair potentials. <i>Colloid and Polymer Science</i> , 2014 , 292, 1971-1975	2.4	10
62	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
61	Communication: Pseudoisomorphs in liquids with intramolecular degrees of freedom. <i>Journal of Chemical Physics</i> , 2016 , 145, 241103	3.9	10
60	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
59	Correlation effects in tracer diffusion and ionic conductivity. <i>Solid State Ionics</i> , 1986 , 20, 203-207	3.3	9
58	Unified formalism for excess current noise in random-walk models. <i>Physical Review B</i> , 1988 , 37, 10143-10149	3.9	9
57	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
56	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
55	Isomorph theory of physical aging. <i>Journal of Chemical Physics</i> , 2018 , 148, 154502	3.9	8
54	Generalized single-parameter aging tests and their application to glycerol. <i>Journal of Chemical Physics</i> , 2019 , 150, 044501	3.9	7
53	Isomorph invariance and thermodynamics of repulsive dense bi-Yukawa one-component plasmas. <i>Physics of Plasmas</i> , 2019 , 26, 053705	2.1	7
52	The dynamic bulk modulus of three glass-forming liquids. <i>Journal of Chemical Physics</i> , 2014 , 140, 244508	3.9	7
51	Variation of the dynamic susceptibility along an isochrone. <i>Physical Review E</i> , 2014 , 90, 042310	2.4	7
50	CO2 Emission Reduction by Exploitation of Rolling Resistance Modelling of Pavements. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 48, 311-320		7
49	Solidity of viscous liquids. V. Long-wavelength dominance of the dynamics. <i>Physical Review E</i> , 2007 , 76, 041508	2.4	7

48	Universal time dependence of the mean-square displacement in extremely rugged energy landscapes with equal minima. <i>Physical Review E</i> , 1995 , 52, 2429-2433	2.4	7
47	A zero-parameter constitutive relation for simple shear viscoelasticity. <i>Rheologica Acta</i> , 1990 , 29, 145-151	3	7
46	Correlation effects in tracer diffusion and ionic conductivity. II. <i>Solid State Ionics</i> , 1986 , 21, 139-142	3.3	7
45	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
44	Aging of CKN: modulus versus conductivity analysis. <i>Physical Review Letters</i> , 2013 , 110, 245901	7.4	6
43	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
42	NVU dynamics. III. Simulating molecules at constant potential energy. <i>Journal of Chemical Physics</i> , 2012 , 137, 244101	3.9	6
41	Lunar phase influence on global temperatures. <i>Science</i> , 1995 , 269, 1284-5	33.3	6
40	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
39	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
38	Long-time structural relaxation of glass-forming liquids: Simple or stretched exponential?. <i>Journal of Chemical Physics</i> , 2020 , 152, 041103	3.9	5
37	The EXP pair-potential system. III. Thermodynamic phase diagram. <i>Journal of Chemical Physics</i> , 2019 , 150, 174501	3.9	5
36	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
35	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
34	Mysteries of the glass transition. <i>Physics Today</i> , 2008 , 61, 15-15	0.9	5
33	Can the Frequency Dependent Isobaric Specific Heat be Measured by Thermal Effusion Methods?. <i>AIP Conference Proceedings</i> , 2008 ,	0	5
32	Maximum-entropy ansatz for nonlinear-response theory. <i>Physical Review A</i> , 1989 , 40, 2207-2210	2.6	5
31	A SIMPLE MODEL OF ac HOPPING CONDUCTIVITY. <i>Journal De Physique Colloque</i> , 1985 , 46, C8-343-C8-347		5

30	Time-scale ordering in hydrogen- and van der Waals-bonded liquids. <i>Journal of Chemical Physics</i> , 2021 , 154, 184508	3.9	5
29	ROSE bitumen: Mesoscopic model of bitumen and bituminous mixtures. <i>Journal of Chemical Physics</i> , 2018 , 149, 214901	3.9	5
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