

Tina Hecksher

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,370
citations

361296

20
h-index

330025

37
g-index

41
all docs

41
docs citations

41
times ranked

989
citing authors

#	ARTICLE	IF	CITATIONS
1	Little evidence for dynamic divergences in ultraviscous molecular liquids. <i>Nature Physics</i> , 2008, 4, 737-741.	6.5	308
2	Predicting the density-scaling exponent of a glass-forming liquid from Prigogine's Defay ratio measurements. <i>Nature Physics</i> , 2011, 7, 816-821.	6.5	122
3	Shear-Modulus Investigations of Monohydroxy Alcohols: Evidence for a Short-Chain-Polymer Rheological Response. <i>Physical Review Letters</i> , 2014, 112, 098301.	2.9	98
4	Physical aging of molecular glasses studied by a device allowing for rapid thermal equilibration. <i>Journal of Chemical Physics</i> , 2010, 133, 174514.	1.2	87
5	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.	1.2	54
6	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.	1.2	48
7	A review of experiments testing the shoving model. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 14-22.	1.5	48
8	Oscillatory shear and high-pressure dielectric study of 5-methyl-3-heptanol. <i>Colloid and Polymer Science</i> , 2014, 292, 1913-1921.	1.0	42
9	Perspective: Searching for simplicity rather than universality in glass-forming liquids. <i>Journal of Chemical Physics</i> , 2018, 149, 230901.	1.2	42
10	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
11	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.	1.2	39
12	Slow rheological mode in glycerol and glycerol-water mixtures. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1716-1723.	1.3	39
13	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.	1.2	37
14	Communication: Supramolecular structures in monohydroxy alcohols: Insights from shear-mechanical studies of a systematic series of octanol structural isomers. <i>Journal of Chemical Physics</i> , 2014, 141, 101104.	1.2	35
15	Predicting nonlinear physical aging of glasses from equilibrium relaxation via the material time. <i>Science Advances</i> , 2022, 8, eabl9809.	4.7	32
16	Broadband dynamics in neat 4-methyl-3-heptanol and in mixtures with 2-ethyl-1-hexanol. <i>Journal of Chemical Physics</i> , 2013, 139, 134503.	1.2	28
17	Communication: Slow supramolecular mode in amine and thiol derivatives of 2-ethyl-1-hexanol revealed by combined dielectric and shear-mechanical studies. <i>Journal of Chemical Physics</i> , 2015, 143, 181102.	1.2	27
18	Experimental Evidence for a State-Point-Dependent Density-Scaling Exponent of Liquid Dynamics. <i>Physical Review Letters</i> , 2019, 122, 055501.	2.9	27

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19	Communication: Direct tests of single-parameter aging. <i>Journal of Chemical Physics</i> , 2015, 142, 241103.	1.2	26
20	Toward broadband mechanical spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8710-8715.	3.3	26
21	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, .	1.1	18
22	Communication: Linking the dielectric Debye process in mono-alcohols to density fluctuations. <i>Journal of Chemical Physics</i> , 2016, 144, 161103.	1.2	17
23	A systematic study of the isothermal crystallization of the mono-alcohol <i>n</i> -butanol monitored by dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 134501.	1.2	15
24	Generalized single-parameter aging tests and their application to glycerol. <i>Journal of Chemical Physics</i> , 2019, 150, 044501.	1.2	15
25	Long-time structural relaxation of glass-forming liquids: Simple or stretched exponential?. <i>Journal of Chemical Physics</i> , 2020, 152, 041103.	1.2	14
26	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.	1.2	12
27	Time-scale ordering in hydrogen- and van der Waals-bonded liquids. <i>Journal of Chemical Physics</i> , 2021, 154, 184508.	1.2	12
28	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.	3.3	10
29	The dynamic bulk modulus of three glass-forming liquids. <i>Journal of Chemical Physics</i> , 2014, 140, 244508.	1.2	9
30	The macroscopic pancake bounce. <i>European Journal of Physics</i> , 2017, 38, 015006.	0.3	9
31	Identity of the local and macroscopic dynamic elastic responses in supercooled 1-propanol. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16537-16541.	1.3	7
32	Method for Direct Measurement of Structural Rolling Resistance for Heavy Vehicles. <i>Transportation Research Record</i> , 2020, 2674, 371-380.	1.0	5
33	Thermalization calorimetry: A simple method for investigating glass transition and crystallization of supercooled liquids. <i>AIP Advances</i> , 2016, 6, 055019.	0.6	4
34	A combined measurement of thermal and mechanical relaxation. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 346-350.	1.5	3
35	Sanz etÂal. Reply:. <i>Physical Review Letters</i> , 2019, 123, 189602.	2.9	3
36	An energy landscape model for glass-forming liquids in three dimensions. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5210-5215.	1.5	2

#	ARTICLE	IF	CITATIONS
37	Insights through dimensions. Nature Physics, 2017, 13, 1026-1026.	6.5	2
38	Simple-liquid dynamics emerging in the mechanical shear spectra of poly(propylene glycol). Colloid and Polymer Science, 2017, 295, 2433.	1.0	2
39	High-frequency dynamics and test of the shoving model for the glass-forming ionic liquid Pyr14-TFSI. Physical Review Materials, 2021, 5, .	0.9	2
40	Laboratory for Validation of Rolling-Resistance Models. International Journal of Applied Mechanics, 2021, 13, .	1.3	2
41	Rheological model for the alpha relaxation of glass-forming liquids and its comparison to data for DC704 and DC705. Journal of Chemical Physics, 0, , .	1.2	2