Tina Hecksher

List of Publications by Year
in descending order

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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	Predicting nonlinear physical aging of glasses from equilibrium relaxation via the material time. Science Advances, 2022, 8, eabl9809.	4.7	32
2	Identity of the local and macroscopic dynamic elastic responses in supercooled 1-propanol. Physical Chemistry Chemical Physics, 2021, 23, 16537-16541.	1.3	7
3	Time-scale ordering in hydrogen- and van der Waals-bonded liquids. Journal of Chemical Physics, 2021, 154, 184508.	1.2	12
4	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
5	Laboratory for Validation of Rolling-Resistance Models. International Journal of Applied Mechanics, 2021, 13, .	1.3	2
6	Long-time structural relaxation of glass-forming liquids: Simple or stretched exponential?. Journal of Chemical Physics, 2020, 152, 041103.	1.2	14
7	Method for Direct Measurement of Structural Rolling Resistance for Heavy Vehicles. Transportation Research Record, 2020, 2674, 371-380.	1.0	5
8	Sanz etÂal. Reply:. Physical Review Letters, 2019, 123, 189602.	2.9	3
9	Fast contribution to the activation energy of a glass-forming liquid. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16736-16741.	3.3	10
10	Generalized single-parameter aging tests and their application to glycerol. Journal of Chemical Physics, 2019, 150, 044501.	1.2	15
11	Experimental Evidence for a State-Point-Dependent Density-Scaling Exponent of Liquid Dynamics. Physical Review Letters, 2019, 122, 055501.	2.9	27
12	Slow rheological mode in glycerol and glycerolâ€"water mixtures. Physical Chemistry Chemical Physics, 2018, 20, 1716-1723.	1.3	39
13	Perspective: Searching for simplicity rather than universality in glass-forming liquids. Journal of Chemical Physics, 2018, 149, 230901.	1.2	42
14	Model for the alpha and beta shear-mechanical properties of supercooled liquids and its comparison to squalane data. Journal of Chemical Physics, 2017, 146, 154504.	1.2	12
15	Connection between fragility, mean-squared displacement, and shear modulus in two van der Waals bonded glass-forming liquids. Physical Review B, 2017, 95, .	1.1	18
16	The macroscopic pancake bounce. European Journal of Physics, 2017, 38, 015006.	0.3	9
17	Insights through dimensions. Nature Physics, 2017, 13, 1026-1026.	6.5	2
18	Toward broadband mechanical spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8710-8715.	3.3	26

#	Article	IF	Citations
19	Simple-liquid dynamics emerging in the mechanical shear spectra of poly(propylene glycol). Colloid and Polymer Science, 2017, 295, 2433.	1.0	2
20	Thermalization calorimetry: A simple method for investigating glass transition and crystallization of supercooled liquids. AIP Advances, 2016, 6, 055019.	0.6	4
21	Communication: Linking the dielectric Debye process in mono-alcohols to density fluctuations. Journal of Chemical Physics, 2016, 144, 161103.	1.2	17
22	Communication: Slow supramolecular mode in amine and thiol derivatives of 2-ethyl-1-hexanol revealed by combined dielectric and shear-mechanical studies. Journal of Chemical Physics, 2015, 143, 181102.	1.2	27
23	A systematic study of the isothermal crystallization of the mono-alcohol <i>n</i>-butanol monitored by dielectric spectroscopy. Journal of Chemical Physics, 2015, 143, 134501.	1.2	15
24	Communication: Direct tests of single-parameter aging. Journal of Chemical Physics, 2015, 142, 241103.	1.2	26
25	A review of experiments testing the shoving model. Journal of Non-Crystalline Solids, 2015, 407, 14-22.	1.5	48
26	Communication: Supramolecular structures in monohydroxy alcohols: Insights from shear-mechanical studies of a systematic series of octanol structural isomers. Journal of Chemical Physics, 2014, 141, 101104.	1.2	35
27	Shear-Modulus Investigations of Monohydroxy Alcohols: Evidence for a Short-Chain-Polymer Rheological Response. Physical Review Letters, 2014, 112, 098301.	2.9	98
28	The dynamic bulk modulus of three glass-forming liquids. Journal of Chemical Physics, 2014, 140, 244508.	1.2	9
29	Oscillatory shear and high-pressure dielectric study of 5-methyl-3-heptanol. Colloid and Polymer Science, 2014, 292, 1913-1921.	1.0	42
30	Mechanical spectra of glass-forming liquids. II. Gigahertz-frequency longitudinal and shear acoustic dynamics in glycerol and DC704 studied by time-domain Brillouin scattering. Journal of Chemical Physics, 2013, 138, 12A544.	1.2	54
31	Mechanical spectra of glass-forming liquids. I. Low-frequency bulk and shear moduli of DC704 and 5-PPE measured by piezoceramic transducers. Journal of Chemical Physics, 2013, 138, 12A543.	1.2	39
32	Broadband dynamics in neat 4-methyl-3-heptanol and in mixtures with 2-ethyl-1-hexanol. Journal of Chemical Physics, 2013, 139, 134503.	1.2	28
33	Shear and dielectric responses of propylene carbonate, tripropylene glycol, and a mixture of two secondary amides. Journal of Chemical Physics, 2012, 137, 064508.	1.2	37
34	Experimental studies of Debye-like process and structural relaxation in mixtures of 2-ethyl-1-hexanol and 2-ethyl-1-hexyl bromide. Journal of Chemical Physics, 2012, 137, 144502.	1.2	40
35	Communication: Identical temperature dependence of the time scales of several linear-response functions of two glass-forming liquids. Journal of Chemical Physics, 2012, 136, 081102.	1.2	48
36	Predicting the density-scaling exponent of a glass-forming liquid from Prigogineâ€“Defay ratio measurements. Nature Physics, 2011, 7, 816-821.	6.5	122

#	Article	IF	Citations
37	A combined measurement of thermal and mechanical relaxation. Journal of Non-Crystalline Solids, 2011, 357, 346-350.	1.5	3
38	Physical aging of molecular glasses studied by a device allowing for rapid thermal equilibration. Journal of Chemical Physics, 2010, 133, 174514.	1.2	87
39	Little evidence for dynamic divergences in ultraviscous molecular liquids. Nature Physics, 2008, 4, 737-741.	6.5	308
40	An energy landscape model for glass-forming liquids in three dimensions. Journal of Non-Crystalline Solids, 2006, 352, 5210-5215.	1.5	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