

Andrzej Grzybowski

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76
papers

1,848
citations

25
h-index

39
g-index

79
ext. papers

2,007
ext. citations

3.6
avg, IF

4.7
L-index

#	Paper	IF	Citations
76	Molecular Dynamics of Glass-Forming Systems. <i>Advances in Dielectrics</i> , 2011 ,	0.6	170
75	Molecular dynamics and physical stability of amorphous anti-inflammatory drug: celecoxib. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 12792-801	3.4	101
74	Scaling of viscous dynamics in simple liquids: theory, simulation and experiment. <i>New Journal of Physics</i> , 2012 , 14, 113035	2.9	99
73	Ewald summation of electrostatic interactions in molecular dynamics of a three-dimensional system with periodicity in two directions. <i>Physical Review B</i> , 2000 , 61, 6706-6712	3.3	83
72	Study of molecular dynamics of pharmaceutically important protic ionic liquid-verapamil hydrochloride. I. Test of thermodynamic scaling. <i>Journal of Chemical Physics</i> , 2009 , 131, 104505	3.9	75
71	A Relationship between Intermolecular Potential, Thermodynamics, and Dynamic Scaling for a Supercooled Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 987-992	6.4	59
70	Universal Behavior of Dielectric Responses of Glass Formers: Role of Dipole-Dipole Interactions. <i>Physical Review Letters</i> , 2016 , 116, 025702	7.4	57
69	Relaxation dynamics and crystallization study of sildenafil in the liquid and glassy states. <i>Molecular Pharmaceutics</i> , 2013 , 10, 2270-82	5.6	53
68	Enhancement of amorphous celecoxib stability by mixing it with octaacetylmaltose: the molecular dynamics study. <i>Molecular Pharmaceutics</i> , 2012 , 9, 894-904	5.6	49
67	Effect of high pressure on the relaxation dynamics of glass-forming liquids. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 205117	1.8	49
66	Density scaling in viscous systems near the glass transition. <i>Physical Review E</i> , 2011 , 83, 041505	2.4	47
65	Communication: Relationships between Intermolecular potential, thermodynamics, and dynamic scaling in viscous systems. <i>Journal of Chemical Physics</i> , 2010 , 133, 161101	3.9	42
64	Effect of High Pressure on Crystallization Kinetics of van der Waals Liquid: An Experimental and Theoretical Study. <i>Crystal Growth and Design</i> , 2014 , 14, 2097-2104	3.5	35
63	Coulomb interactions in a computer simulation of a system periodic in two directions. <i>Molecular Physics</i> , 2002 , 100, 1017-1023	1.7	34
62	Toward Better Understanding Crystallization of Supercooled Liquids under Compression: Isochronal Crystallization Kinetics Approach. <i>Crystal Growth and Design</i> , 2013 , 13, 4648-4654	3.5	33
61	Consequences of an equation of state in the thermodynamic scaling regime. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7419-22	3.4	33
60	Dielectric secondary relaxations in polypropylene glycols. <i>Journal of Chemical Physics</i> , 2006 , 125, 44904	3.9	32

59	Computer simulation of the linear and nonlinear optical susceptibilities of p-nitroaniline in cyclohexane, 1,4-dioxane, and tetrahydrofuran in quadrupolar approximation. I. Molecular polarizabilities and hyperpolarizabilities. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 10106-20	2.8	32
58	Density scaling of supercooled simple liquids near the glass transition. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 11544-51	3.4	31
57	Electrostatic interactions in computer simulations of a three-dimensional system periodic in two directions: Ewald-type summation. <i>Journal of Chemical Physics</i> , 2002 , 117, 8208-8211	3.9	29
56	Correlations between isobaric and isochoric fragilities and thermodynamical scaling exponent for glass-forming liquids. <i>Physical Review E</i> , 2006 , 74, 041503	2.4	27
55	On the scaling behavior of electric conductivity in [C4mim][NTf2]. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20444-50	3.6	26
54	Scaling of volumetric data in model systems based on the Lennard-Jones potential. <i>Physical Review E</i> , 2012 , 86, 031501	2.4	26
53	General rules prospected for the liquid fragility in various material groups and different thermodynamic conditions. <i>Journal of Chemical Physics</i> , 2014 , 141, 134507	3.9	25
52	Dielectric relaxation processes in water mixtures of tripropylene glycol. <i>Journal of Chemical Physics</i> , 2005 , 123, 204506	3.9	25
51	High pressure study of molecular dynamics of protic ionic liquid lidocaine hydrochloride. <i>Journal of Chemical Physics</i> , 2012 , 136, 224501	3.9	24
50	Computer simulation of the linear and nonlinear optical susceptibilities of p-nitroaniline in cyclohexane, 1,4-dioxane, and tetrahydrofuran in quadrupolar approximation. II. Local field effects and optical susceptibilities. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18537-52	3.4	24
49	A new approach to description of the pressure dependence of viscosity. <i>Journal of Non-Crystalline Solids</i> , 2009 , 355, 733-736	3.9	23
48	Molecular Factors Governing the Liquid and Glassy States Recrystallization of Celecoxib in Binary Mixtures with Excipients of Different Molecular Weights. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1154-1168	5.6	22
47	Isobaric Thermal Expansion of Compressed 1,4-Dichlorobutane and 1-Bromo-4-chlorobutane: Transitionometric Results and a Novel Application of the General Density Scaling-Based Equation of State. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 6400-6407	3.9	20
46	Effects of lowering temperature and raising pressure on the spatially heterogeneous dynamics of glass-forming van der Waals liquids. <i>Physical Review B</i> , 2012 , 85,	3.3	20
45	Communication: Thermodynamic scaling of the Debye process in primary alcohols. <i>Journal of Chemical Physics</i> , 2011 , 134, 041103	3.9	20
44	Effect of temperature and density fluctuations on the spatially heterogeneous dynamics of glass-forming Van der Waals liquids under high pressure. <i>Physical Review Letters</i> , 2013 , 111, 125701	7.4	19
43	Study of molecular dynamics of the pharmaceutically important protic ionic liquid verapamil hydrochloride. II. Test of entropic models. <i>Journal of Chemical Physics</i> , 2010 , 132, 094506	3.9	19
42	Dynamic Crossover of Water Relaxation in Aqueous Mixtures: Effect of Pressure. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1170-1175	6.4	19

41	Recent advances in fundamental understanding of glass transition. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5085-5088	3.9	19
40	Pressure coefficient of the glass transition temperature in the thermodynamic scaling regime. <i>Physical Review E</i> , 2012 , 86, 041502	2.4	18
39	Activation volume in the density scaling regime: Equation of state and its test by using experimental and simulation data. <i>Physical Review B</i> , 2013 , 87,	3.3	17
38	Temperature-Volume Entropic Model for Viscosities and Structural Relaxation Times of Glass Formers. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2643-8	6.4	16
37	Electrostatic interactions in molecular dynamics simulation of a three-dimensional system with periodicity in one direction. <i>Molecular Physics</i> , 2002 , 100, 635-639	1.7	16
36	Equation of state in the generalized density scaling regime studied from ambient to ultra-high pressure conditions. <i>Journal of Chemical Physics</i> , 2014 , 140, 044502	3.9	15
35	Comment on "Density scaling of the diffusion coefficient at various pressures in viscous liquids". <i>Physical Review E</i> , 2010 , 82, 013501	2.4	15
34	Anomalous behavior of secondary dielectric relaxation in polypropylene glycols. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 376105	1.8	15
33	Lekner type method for summing the dipole-dipole interactions in computer simulations of one- and two-dimensionally periodic systems. <i>Molecular Physics</i> , 2003 , 101, 1079-1088	1.7	15
32	Temperature and volume effect on the molecular dynamics of supercooled ibuprofen at ambient and elevated pressure. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1975-9	5.6	14
31	Mechanism of mutarotation in supercooled liquid phase: Studies on L-sorbose. <i>Journal of Chemical Physics</i> , 2012 , 137, 124504	3.9	13
30	The complex, non-monotonic thermal response of the volumetric space of simple liquids. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19900-8	3.6	12
29	Computationally efficient method for summing interactions of point dipoles in three dimensions with two-dimensional periodicity. <i>Chemical Physics Letters</i> , 2002 , 361, 329-333	2.5	12
28	Thermodynamic consequences of the kinetic nature of the glass transition. <i>Scientific Reports</i> , 2015 , 5, 17782	4.9	11
27	Spatially Heterogeneous Dynamics in the Density Scaling Regime: Time and Length Scales of Molecular Dynamics near the Glass Transition. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 4273-8	6.4	11
26	Ionic liquids and their bases: Striking differences in the dynamic heterogeneity near the glass transition. <i>Scientific Reports</i> , 2015 , 5, 16876	4.9	11
25	Adam-Gibbs model in the density scaling regime and its implications for the configurational entropy scaling. <i>Scientific Reports</i> , 2015 , 5, 13998	4.9	11
24	Universality of Density Scaling. <i>Advances in Dielectrics</i> , 2018 , 77-119	0.6	10

23	Role of entropy in the thermodynamic evolution of the time scale of molecular dynamics near the glass transition. <i>Physical Review E</i> , 2015 , 91, 062305	2.4	10
22	Reply to "Comment on 'Correlations between isobaric and isochoric fragilities and thermodynamical scaling exponent for glass-forming liquids' ". <i>Physical Review E</i> , 2007 , 76, 013502	2.4	10
21	Fragility versus activation volume: insight into molecular dynamics of glass-forming hydrogen-bonded liquids. <i>Physical Review E</i> , 2011 , 84, 052501	2.4	9
20	Role of defects in the nonmonotonic behavior of secondary relaxation of polypropylene glycols. <i>Journal of Chemical Physics</i> , 2008 , 128, 134904	3.9	9
19	Effect of polymer structure on the molecular dynamics and thermal behavior of poly(allyl acetoacetate) and copolymers. <i>Polymer</i> , 2014 , 55, 1040-1047	3.9	8
18	The effect of molecular architecture on the physical properties of supercooled liquids studied by MD simulations: Density scaling and its relation to the equation of state. <i>Journal of Chemical Physics</i> , 2019 , 150, 014501	3.9	8
17	In search of correlations between the four-point measure of dynamic heterogeneity and other characteristics of glass-forming liquids under high pressure. <i>Journal of Non-Crystalline Solids</i> , 2015 , 407, 196-205	3.9	7
16	Breakdown of the Simple Arrhenius Law in the Normal Liquid State. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1783-1787	6.4	7
15	The role of the dipole moment orientations in the crystallization tendency of the van der Waals liquids - molecular dynamics simulations. <i>Scientific Reports</i> , 2020 , 10, 283	4.9	6
14	Exploring the connection between the density-scaling exponent and the intermolecular potential for liquids on the basis of computer simulations of quasireal model systems. <i>Physical Review E</i> , 2020 , 101, 012613	2.4	6
13	Activation volume of selected liquid crystals in the density scaling regime. <i>Scientific Reports</i> , 2017 , 7, 42174	4.9	6
12	In search of invariants for viscous liquids in the density scaling regime: investigations of dynamic and thermodynamic moduli. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18348-18355	3.6	4
11	Virial-potential-energy correlation and its relation to density scaling for quasireal model systems. <i>Physical Review E</i> , 2020 , 102, 062140	2.4	4
10	Density Scaling Based Detection of Thermodynamic Regions of Complex Intermolecular Interactions Characterizing Supramolecular Structures. <i>Scientific Reports</i> , 2020 , 10, 9316	4.9	3
9	Effects of dynamic heterogeneity and density scaling of molecular dynamics on the relationship among thermodynamic coefficients at the glass transition. <i>Journal of Chemical Physics</i> , 2015 , 143, 024502	3.9	3
8	The Glass Transition. <i>Advances in Dielectrics</i> , 2011 , 1-37	0.6	3
7	Test of the dynamic lattice liquid model of glass-forming liquids. <i>Journal of Molecular Liquids</i> , 2004 , 109, 137-141	6	3
6	Molecular Dynamics and Physical Stability of Ibuprofen in Binary Mixtures with an Acetylated Derivative of Maltose. <i>Molecular Pharmaceutics</i> , 2020 , 17, 3087-3105	5.6	2

5	Origin of Glass Formation. <i>Advances in Dielectrics</i> , 2011 , 39-65	0.6	2
4	Correction to Effect of High Pressure on Crystallization Kinetics of van der Waals Liquid: An Experimental and Theoretical Study. <i>Crystal Growth and Design</i> , 2014 , 14, 4226-4226	3.5	1
3	New Physics Gained by the Application of Pressure in the Study of Dynamics of Glass Formers. <i>Advances in Dielectrics</i> , 2011 , 89-120	0.6	1
2	Volumetric and viscosity data of selected oils analyzed in the density scaling regime. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118728	6	0
1	Models of Temperature-Pressure Dependence of Structural Relaxation Time. <i>Advances in Dielectrics</i> , 2011 , 67-88	0.6	