

Shinian Cheng

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69 papers	1,498 citations	24 h-index	36 g-index
72 ext. papers	1,650 ext. citations	4.5 avg, IF	4.48 L-index

#	Paper	IF	Citations
69	Pressure-induced liquid-liquid transition in a family of ionic materials.. <i>Nature Communications</i> , 2022 , 13, 1342	17.4	1
68	Comparative analysis of dielectric, shear mechanical and light scattering response functions in polar supercooled liquids. <i>Scientific Reports</i> , 2021 , 11, 22142	4.9	2
67	Complex Reorientation Dynamics of Sizable Glass-Formers with Polar Rotors Revealed by Dielectric Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 11303-11307	6.4	1
66	Magnitude of Dynamically Correlated Molecules as an Indicator for a Dynamical Crossover in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4141-4147	3.4	1
65	Fractional Walden rule for aprotic ionic liquids: Experimental verification over a wide range of temperatures and pressures. <i>Journal of Molecular Liquids</i> , 2021 , 331, 115772	6	3
64	Studies on ion dynamics of polymerized ionic liquids through the free volume theory. <i>Polymer</i> , 2021 , 212, 123286	3.9	1
63	Correlation between configurational entropy, excess entropy, and ion dynamics in imidazolium-based ionic liquids: Test of the Adam-Gibbs model. <i>Journal of Chemical Physics</i> , 2021 , 154, 044502	3.9	3
62	Fast secondary dynamics for enhanced charge transport in polymerized ionic liquids. <i>Physical Review E</i> , 2020 , 101, 032606	2.4	3
61	The relation between molecular dynamics and configurational entropy in room temperature ionic liquids: Test of Adam-Gibbs model. <i>Journal of Chemical Physics</i> , 2020 , 152, 091101	3.9	4
60	Revealing Fast Proton Transport in Condensed Matter by Means of Density Scaling Concept. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15749-15756	3.8	1
59	Structurally Related Scaling Behavior in Ionic Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 1240-1244	3.4	12
58	Universal scaling behavior of entropy and conductivity in ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113824	6	3
57	The behavior of conductivity dynamic modulus and its connection to thermodynamic bulk modulus in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19342-19348	3.6	1
56	Density, viscosity, and high-pressure conductivity studies of tricyanomethanide-based ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 317, 113971	6	9
55	Thorough studies of tricyanomethanide-based ionic liquids - the influence of alkyl chain length of the cation. <i>Soft Matter</i> , 2020 , 16, 9479-9487	3.6	1
54	Experimental Evidence for a State-Point-Independent Density-Scaling Exponent in Ionic Liquids. <i>Physical Review Letters</i> , 2019 , 123, 125702	7.4	9
53	Effect of electrostatic interactions on the relaxation dynamics of pharmaceutical eutectics. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 134, 93-101	5.1	2

52	Evidence of a Fundamental Mechanism Governing Conductivity Relaxation in Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22089-22094	3.8	7
51	Access to Thermodynamic and Viscoelastic Properties of Poly(ionic liquid)s Using High-Pressure Conductivity Measurements. <i>ACS Macro Letters</i> , 2019 , 8, 996-1001	6.6	5
50	Nature of intramolecular dynamics in protic ionic glass-former: insight from ambient and high pressure Brillouin spectroscopy. <i>Journal of Molecular Liquids</i> , 2019 , 282, 51-56	6	1
49	Density Scaling in Ionic Glass Formers Controlled by Grotthuss Conduction. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1156-1160	3.4	6
48	The effect of electrostatic interactions on the formation of pharmaceutical eutectics. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27361-27367	3.6	14
47	How is charge transport different in ionic liquids? The effect of high pressure. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14141-14147	3.6	13
46	The dielectric signature of glass density. <i>Applied Physics Letters</i> , 2017 , 111, 121902	3.4	10
45	Experimental evidence of high pressure decoupling between charge transport and structural dynamics in a protic ionic glass-former. <i>Scientific Reports</i> , 2017 , 7, 7084	4.9	12
44	Atorvastatin as a Promising Crystallization Inhibitor of Amorphous Probucol: Dielectric Studies at Ambient and Elevated Pressure. <i>Molecular Pharmaceutics</i> , 2017 , 14, 2670-2680	5.6	24
43	Universal Behavior of Dielectric Responses of Glass Formers: Role of Dipole-Dipole Interactions. <i>Physical Review Letters</i> , 2016 , 116, 025702	7.4	57
42	The implications of various molecular interactions on the dielectric behavior of cimetidine and cimetidine hydrochloride. <i>RSC Advances</i> , 2016 , 6, 112919-112930	3.7	2
41	Stabilization of the Amorphous Ezetimibe Drug by Confining Its Dimension. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1308-16	5.6	36
40	Amorphous Protic Ionic Systems as Promising Active Pharmaceutical Ingredients: The Case of the Sumatriptan Succinate Drug. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1111-22	5.6	13
39	Molecular Dynamics and Physical Stability of Amorphous Nimesulide Drug and Its Binary Drug-Polymer Systems. <i>Molecular Pharmaceutics</i> , 2016 , 13, 1937-46	5.6	32
38	Dynamic Properties of Glass-Formers Governed by the Frequency Dispersion of the Structural Relaxation: Examples from Prilocaine. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 12699-707	3.4	5
37	Toward a Better Understanding of the Physical Stability of Amorphous Anti-Inflammatory Agents: The Roles of Molecular Mobility and Molecular Interaction Patterns. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3628-38	5.6	33
36	Molecular Dynamics and Physical Stability of Coamorphous Ezetimib and Indapamide Mixtures. <i>Molecular Pharmaceutics</i> , 2015 , 12, 3610-9	5.6	62
35	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. <i>Macromolecules</i> , 2015 , 48, 8660-8666	5.5	42

34	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
33	Evidence of slow Debye-like relaxation in the anti-inflammatory agent etoricoxib. <i>Physical Review E</i> , 2015 , 92, 022309	2.4	14
32	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
31	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
30	Physicochemical properties of tadalafil solid dispersions - Impact of polymer on the apparent solubility and dissolution rate of tadalafil. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 94, 106-15	5.7	61
29	On the scaling behavior of electric conductivity in [C4mim][NTf2]. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 20444-50	3.6	26
28	New insight into relaxation dynamics of an epoxy/hydroxy functionalized polybutadiene from dielectric and mechanical spectroscopy studies. <i>Colloid and Polymer Science</i> , 2014 , 292, 1853-1862	2.4	6
27	Conductivity Mechanism in Polymerized Imidazolium-Based Protic Ionic Liquid [HSO3BVIm][OTf]: Dielectric Relaxation Studies. <i>Macromolecules</i> , 2014 , 47, 4056-4065	5.5	73
26	Isothermal Cold Crystallization Kinetics Study of Sildenafil. <i>Crystal Growth and Design</i> , 2014 , 14, 3199-3209	3.5	25
25	The influence of amorphization methods on the apparent solubility and dissolution rate of tadalafil. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 62, 132-40	5.1	46
24	Invariance of conductivity relaxation under pressure and temperature variations at constant conductivity relaxation time in 0.4Ca(NO ₃) ₂ ·0.6KNO ₃ . <i>Physical Review E</i> , 2014 , 90, 062315	2.4	9
23	Deducting the temperature dependence of the structural relaxation time in equilibrium far below the nominal T _g by aging the decoupled conductivity relaxation to equilibrium. <i>Journal of Chemical Physics</i> , 2014 , 140, 174502	3.9	11
22	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
21	High pressure as a key factor to identify the conductivity mechanism in protic ionic liquids. <i>Physical Review Letters</i> , 2013 , 111, 225703	7.4	59
20	Decoupling of conductivity relaxation from structural relaxation in protic ionic liquids and general properties. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 9205-11	3.6	35
19	Effect of pressure on decoupling of ionic conductivity from structural relaxation in hydrated protic ionic liquid, lidocaine HCl. <i>Journal of Chemical Physics</i> , 2013 , 138, 204502	3.9	22
18	Molecular dynamics, physical stability and solubility advantage from amorphous indapamide drug. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3612-27	5.6	42
17	Molecular dynamics studies on the water mixtures of pharmaceutically important ionic liquid lidocaine HCl. <i>Molecular Pharmaceutics</i> , 2012 , 9, 1250-61	5.6	44

16	Tracking of Proton Transfer Reaction in Supercooled RNA Nucleoside. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2288-92	6.4	11
15	Quantifying the Structural Dynamics of Pharmaceuticals in the Glassy State. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1238-41	6.4	43
14	Rheological studies of tautomerization kinetics in supercooled glibenclamide drug. <i>Physical Review E</i> , 2012 , 86, 067104	2.4	3
13	Anomalous electrical conductivity behavior at elevated pressure in the protic ionic liquid procainamide hydrochloride. <i>Physical Review Letters</i> , 2012 , 108, 015701	7.4	56
12	Fundamentals of ionic conductivity relaxation gained from study of procaine hydrochloride and procainamide hydrochloride at ambient and elevated pressure. <i>Journal of Chemical Physics</i> , 2012 , 136, 164507	3.9	27
11	High pressure study of molecular dynamics of protic ionic liquid lidocaine hydrochloride. <i>Journal of Chemical Physics</i> , 2012 , 136, 224501	3.9	24
10	Dielectric Spectroscopy Studies of 4-Cyano-3-fluorophenyl 4-Butylbenzoate Liquid Crystal at High Pressure. <i>Acta Physica Polonica A</i> , 2012 , 122, 378-381	0.6	7
9	Nanoscale domains with nematic order in supercooled vitamin-A acetate: molecular dynamics studies. <i>Physical Review E</i> , 2011 , 83, 051502	2.4	12
8	The tautomerization phenomenon of glibenclamide drug monitored by means of volumetric measurements. <i>Journal of Chemical Physics</i> , 2011 , 135, 214506	3.9	8
7	Molecular dynamics at ambient and elevated pressure of the amorphous pharmaceutical: nonivamide (pelargonic acid vanillylamide). <i>Journal of Chemical Physics</i> , 2011 , 134, 044517	3.9	7
6	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
5	On the kinetics of tautomerism in drugs: New application of broadband dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2010 , 133, 094507	3.9	46
4	Study of the amorphous glibenclamide drug: analysis of the molecular dynamics of quenched and cryomilled material. <i>Molecular Pharmaceutics</i> , 2010 , 7, 1692-707	5.6	76
3	Effect of pressure on tautomersTequilibrium in supercooled glibenclamide drug: analysis of fragility behavior. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14815-20	3.4	15
2	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
1	Broadband dielectric relaxation study at ambient and elevated pressure of molecular dynamics of pharmaceutical: indomethacin. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 12536-45	3.4	116