Zaneta Wojnarowska

List of Publications by Year in Descending Order

119 papers	2,737 citations	33 h-index	46 g-index
122 ext. papers	3,052 ext. citations	4.8 avg, IF	5.08 L-index

#	Paper	IF	Citations
119	Pressure-induced liquid-liquid transition in a family of ionic materials.. *Nature Communications*, **2022**, 13, 1342	17.4	1
118	Comparative analysis of dielectric, shear mechanical and light scattering response functions in polar supercooled liquids. *Scientific Reports*, **2021**, 11, 22142	4.9	2
117	Formation of stoichiometric and non-stoichiometric ionic liquid and cocrystal multicomponent phases of lidocaine with azelaic acid by changing counterion ratios. *Journal of Molecular Liquids*, **2021**, 344, 117737	6	0
116	Effect of structure on molecular dynamics in glass-forming liquids. The case of aromaticity. *Journal of Molecular Liquids*, **2021**, 344, 117757	6	
115	Magnitude of Dynamically Correlated Molecules as an Indicator for a Dynamical Crossover in Ionic Liquids. *Journal of Physical Chemistry B*, **2021**, 125, 4141-4147	3.4	1
114	Ion and Proton Transport In Aqueous/Nonaqueous Acidic Ionic Liquids for Fuel-Cell Applications-Insight from High-Pressure Dielectric Studies. *ACS Applied Materials & Interfaces*, **2021**, 13, 30614-30624	9.5	2
113	Fractional Walden rule for aprotic ionic liquids: Experimental verification over a wide range of temperatures and pressures. *Journal of Molecular Liquids*, **2021**, 331, 115772	6	3
112	Characterisation and fundamental insight into the formation of new solid state, multicomponent systems of propranolol. *International Journal of Pharmaceutics*, **2021**, 602, 120605	6.5	0
111	Studies on ion dynamics of polymerized ionic liquids through the free volume theory. *Polymer*, **2021** , 212, 123286	3.9	1
110	Correlation between configurational entropy, excess entropy, and ion dynamics in imidazolium-based ionic liquids: Test of the Adam-Gibbs model. *Journal of Chemical Physics*, **2021**, 154, 044502	3.9	3
109	On the temperature and pressure dependence of dielectric relaxation processes in ionic liquids. *Physical Chemistry Chemical Physics*, **2021**, 23, 14260-14275	3.6	4
108	Two-Step Aging of Highly Polar Glass. *Journal of Physical Chemistry Letters*, **2021**, 11779-11783	6.4	2
107	Modulation of Cation Diffusion by Reversible Supramolecular Assemblies in Ionic Liquid-Based Nanocomposites. *ACS Applied Materials & Interfaces*, **2020**, 12, 31842-31851	9.5	2
106	Fast secondary dynamics for enhanced charge transport in polymerized ionic liquids. *Physical Review E*, **2020**, 101, 032606	2.4	3
105	The relation between molecular dynamics and configurational entropy in room temperature ionic liquids: Test of Adam-Gibbs model. *Journal of Chemical Physics*, **2020**, 152, 091101	3.9	4
104	The structural α-relaxation times of prilocaine confined in 1 nm pores of molecular sieves: quantitative explanation by the coupling model. *Physical Chemistry Chemical Physics*, **2020**, 22, 9257-9261	3.6	1
103	Revealing Fast Proton Transport in Condensed Matter by Means of Density Scaling Concept. *Journal of Physical Chemistry C*, **2020**, 124, 15749-15756	3.8	1

102	Capacitance of thin films containing polymerized ionic liquids. *Science Advances*, **2020**, 6, eaba7952	14.3	5
101	Structurally Related Scaling Behavior in Ionic Systems. *Journal of Physical Chemistry B*, **2020**, 124, 1240-1244	3.4	12
100	Universal scaling behavior of entropy and conductivity in ionic liquids. *Journal of Molecular Liquids*, **2020**, 316, 113824	6	3
99	Green Synthesis of Lidocaine Ionic Liquids and Salts: Mechanisms of Formation and Interactions in the Crystalline and Supercooled States. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 18266-18276	8.3	5
98	Correlation between Locally Ordered (Hydrogen-Bonded) Nanodomains and Puzzling Dynamics of Polymethysiloxane Derivative. *Macromolecules*, **2020**, 53, 10225-10233	5.5	1
97	The behavior of conductivity dynamic modulus and its connection to thermodynamic bulk modulus in ionic liquids. *Physical Chemistry Chemical Physics*, **2020**, 22, 19342-19348	3.6	1
96	Density, viscosity, and high-pressure conductivity studies of tricyanomethanide-based ionic liquids. *Journal of Molecular Liquids*, **2020**, 317, 113971	6	9
95	Thorough studies of tricyanomethanide-based ionic liquids - the influence of alkyl chain length of the cation. *Soft Matter*, **2020**, 16, 9479-9487	3.6	1
94	Comparative study of effect of alkyl chain length on thermophysical characteristics of five N-alkylpyridinium bis(trifluoromethylsulfonyl)imides with selected imidazolium-based ionic liquids. *Journal of Molecular Liquids*, **2019**, 278, 401-412	6	9
93	Experimental Evidence for a State-Point-Independent Density-Scaling Exponent in Ionic Liquids. *Physical Review Letters*, **2019**, 123, 125702	7.4	9
92	Structural correlations tailor conductive properties in polymerized ionic liquids. *Physical Chemistry Chemical Physics*, **2019**, 21, 14775-14785	3.6	7
91	Influence of Polymeric Additive on the Physical Stability and Viscoelastic Properties of Aripiprazole. *Molecular Pharmaceutics*, **2019**, 16, 1742-1750	5.6	13
90	Effect of electrostatic interactions on the relaxation dynamics of pharmaceutical eutectics. *European Journal of Pharmaceutical Sciences*, **2019**, 134, 93-101	5.1	2
89	Evidence of a Fundamental Mechanism Governing Conductivity Relaxation in Room-Temperature Ionic Liquid. *Journal of Physical Chemistry C*, **2019**, 123, 22089-22094	3.8	7
88	Access to Thermodynamic and Viscoelastic Properties of Poly(ionic liquid)s Using High-Pressure Conductivity Measurements. *ACS Macro Letters*, **2019**, 8, 996-1001	6.6	5
87	Nature of intramolecular dynamics in protic ionic glass-former: insight from ambient and high pressure Brillouin spectroscopy. *Journal of Molecular Liquids*, **2019**, 282, 51-56	6	1
86	Density Scaling in Ionic Glass Formers Controlled by Grotthuss Conduction. *Journal of Physical Chemistry B*, **2019**, 123, 1156-1160	3.4	6
85	Can Storage Time Improve the Physical Stability of Amorphous Pharmaceuticals with Tautomerization Ability Exposed to Compression? The Case of a Chloramphenicol Drug. *Molecular Pharmaceutics*, **2018**, 15, 1928-1940	5.6	13

84	The effect of electrostatic interactions on the formation of pharmaceutical eutectics. *Physical Chemistry Chemical Physics*, **2018**, 20, 27361-27367	3.6	14
83	Fundamental Limitations of Ionic Conductivity in Polymerized Ionic Liquids. *Macromolecules*, **2018**, 51, 8637-8645	5.5	67
82	New limits of secondary relaxation. *Scientific Reports*, **2017**, 7, 43091	4.9	5
81	Toward a better understanding of dielectric responses of van der Waals liquids: The role of chemical structures. *Journal of Chemical Physics*, **2017**, 146, 094512	3.9	16
80	How is charge transport different in ionic liquids? The effect of high pressure. *Physical Chemistry Chemical Physics*, **2017**, 19, 14141-14147	3.6	13
79	Communication: Inflection in the pressure dependent conductivity of the protic ionic liquid C8HIM NTf2. *Journal of Chemical Physics*, **2017**, 146, 181102	3.9	5
78	The dielectric signature of glass density. *Applied Physics Letters*, **2017**, 111, 121902	3.4	10
77	Effect of Chain Rigidity on the Decoupling of Ion Motion from Segmental Relaxation in Polymerized Ionic Liquids: Ambient and Elevated Pressure Studies. *Macromolecules*, **2017**, 50, 6710-6721	5.5	59
76	Revealing the Charge Transport Mechanism in Polymerized Ionic Liquids: Insight from High Pressure Conductivity Studies. *Chemistry of Materials*, **2017**, 29, 8082-8092	9.6	27
75	A star-shaped single lithium-ion conducting copolymer by grafting a POSS nanoparticle. *Polymer*, **2017**, 124, 117-127	3.9	34
74	Experimental evidence of high pressure decoupling between charge transport and structural dynamics in a protic ionic glass-former. *Scientific Reports*, **2017**, 7, 7084	4.9	12
73	Influence of Chain Rigidity and Dielectric Constant on the Glass Transition Temperature in Polymerized Ionic Liquids. *Journal of Physical Chemistry B*, **2017**, 121, 11511-11519	3.4	60
72	Atorvastatin as a Promising Crystallization Inhibitor of Amorphous Probucol: Dielectric Studies at Ambient and Elevated Pressure. *Molecular Pharmaceutics*, **2017**, 14, 2670-2680	5.6	24
71	New Insight Into Ion Transport Through Dynamic Modulus Studies. *Journal of Physical Chemistry C*, **2016**, 120, 22816-22821	3.8	4
70	Universal Behavior of Dielectric Responses of Glass Formers: Role of Dipole-Dipole Interactions. *Physical Review Letters*, **2016**, 116, 025702	7.4	57
69	The implications of various molecular interactions on the dielectric behavior of cimetidine and cimetidine hydrochloride. *RSC Advances*, **2016**, 6, 112919-112930	3.7	2
68	High-Pressure Dielectric Spectroscopy for Studying the Charge Transfer in Ionic Liquids and Solids. *Advances in Dielectrics*, **2016**, 73-113	0.6	3
67	Temperature- and Pressure-Induced Structural Changes of Cobalt(II) in a Phosphonium-Based Ionic Liquid. *Journal of Physical Chemistry C*, **2016**, 120, 10156-10161	3.8	10

66	Stabilization of the Amorphous Ezetimibe Drug by Confining Its Dimension. *Molecular Pharmaceutics*, **2016**, 13, 1308-16	5.6	36
65	Amorphous Protic Ionic Systems as Promising Active Pharmaceutical Ingredients: The Case of the Sumatriptan Succinate Drug. *Molecular Pharmaceutics*, **2016**, 13, 1111-22	5.6	13
64	Glass-Forming Tendency of Molecular Liquids and the Strength of the Intermolecular Attractions. *Scientific Reports*, **2016**, 6, 36934	4.9	30
63	Molecular Dynamics and Physical Stability of Amorphous Nimesulide Drug and Its Binary Drug-Polymer Systems. *Molecular Pharmaceutics*, **2016**, 13, 1937-46	5.6	32
62	Tautomerism in Drug Delivery **2016**, 183-200		6
61	Synthesis, characterization and dielectric relaxation study of hyperbranched polymers with different molecular architecture. *Polymer*, **2016**, 100, 227-237	3.9	16
60	Can the scaling behavior of electric conductivity be used to probe the self-organizational changes in solution with respect to the ionic liquid structure? The case of [C8MIM][NTf2]. *Soft Matter*, **2015**, 11, 6520-6	3.6	21
59	Glass transition dynamics and conductivity scaling in ionic deep eutectic solvents: The case of (acetamide + lithium nitrate/sodium thiocyanate) melts. *Journal of Chemical Physics*, **2015**, 142, 184504	3.9	37
58	Heterogeneous Nature of Relaxation Dynamics of Room-Temperature Ionic Liquids (EMIm)2[Co(NCS)4] and (BMIm)2[Co(NCS)4]. *Journal of Physical Chemistry C*, **2015**, 119, 20363-20368	3.8	23
57	Dynamic Properties of Glass-Formers Governed by the Frequency Dispersion of the Structural Relaxation: Examples from Prilocaine. *Journal of Physical Chemistry B*, **2015**, 119, 12699-707	3.4	5
56	Toward a Better Understanding of the Physical Stability of Amorphous Anti-Inflammatory Agents: The Roles of Molecular Mobility and Molecular Interaction Patterns. *Molecular Pharmaceutics*, **2015**, 12, 3628-38	5.6	33
55	Molecular Dynamics and Physical Stability of Coamorphous Ezetimib and Indapamide Mixtures. *Molecular Pharmaceutics*, **2015**, 12, 3610-9	5.6	62
54	Effect of Pressure on Decoupling of Ionic Conductivity from Segmental Dynamics in Polymerized Ionic Liquids. *Macromolecules*, **2015**, 48, 8660-8666	5.5	42
53	In search of correlations between the four-point measure of dynamic heterogeneity and other characteristics of glass-forming liquids under high pressure. *Journal of Non-Crystalline Solids*, **2015**, 407, 196-205	3.9	7
52	Ionic liquids and their bases: Striking differences in the dynamic heterogeneity near the glass transition. *Scientific Reports*, **2015**, 5, 16876	4.9	11
51	Dielectric properties of glassy disaccharides for electromagnetic interference shielding application. *Journal of Applied Physics*, **2015**, 118, 184102	2.5	2
50	Physicochemical properties of tadalafil solid dispersions - Impact of polymer on the apparent solubility and dissolution rate of tadalafil. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 94, 106-15	5.7	61
49	Molecular origin of enhanced proton conductivity in anhydrous ionic systems. *Journal of the American Chemical Society*, **2015**, 137, 1157-64	16.4	37

48	Recent progress on dielectric properties of protic ionic liquids. *Journal of Physics Condensed Matter*, **2015**, 27, 073202	1.8	46
47	Effect of polymer structure on the molecular dynamics and thermal behavior of poly(allyl acetoacetate) and copolymers. *Polymer*, **2014**, 55, 1040-1047	3.9	8
46	On the scaling behavior of electric conductivity in [C4mim][NTf2]. *Physical Chemistry Chemical Physics*, **2014**, 16, 20444-50	3.6	26
45	New insight into relaxation dynamics of an epoxy/hydroxy functionalized polybutadiene from dielectric and mechanical spectroscopy studies. *Colloid and Polymer Science*, **2014**, 292, 1853-1862	2.4	6
44	Observation of highly decoupled conductivity in protic ionic conductors. *Physical Chemistry Chemical Physics*, **2014**, 16, 9123-7	3.6	34
43	Conductivity Mechanism in Polymerized Imidazolium-Based Protic Ionic Liquid [HSO3BVIm][OTf]: Dielectric Relaxation Studies. *Macromolecules*, **2014**, 47, 4056-4065	5.5	73
42	Isothermal Cold Crystallization Kinetics Study of Sildenafil. *Crystal Growth and Design*, **2014**, 14, 3199-3209	4.7	25
41	The influence of amorphization methods on the apparent solubility and dissolution rate of tadalafil. *European Journal of Pharmaceutical Sciences*, **2014**, 62, 132-40	5.1	46
40	Invariance of conductivity relaxation under pressure and temperature variations at constant conductivity relaxation time in 0.4Ca(NO)0.6KNO *Physical Review E*, **2014**, 90, 062315	2.4	9
39	Physical stability of the amorphous anticholesterol agent (ezetimibe): the role of molecular mobility. *Molecular Pharmaceutics*, **2014**, 11, 4280-90	5.6	46
38	Deducting the temperature dependence of the structural relaxation time in equilibrium far below the nominal Tg by aging the decoupled conductivity relaxation to equilibrium. *Journal of Chemical Physics*, **2014**, 140, 174502	3.9	11
37	General rules prospected for the liquid fragility in various material groups and different thermodynamic conditions. *Journal of Chemical Physics*, **2014**, 141, 134507	3.9	25
36	Effect of temperature and density fluctuations on the spatially heterogeneous dynamics of glass-forming Van der Waals liquids under high pressure. *Physical Review Letters*, **2013**, 111, 125701	7.4	19
35	Dynamic crossover and the DebyeStokesEinstein relation in liquid N,N-diethyl-3-methylbenzamide (DEET). *Soft Matter*, **2013**, 9, 10373	3.6	13
34	High pressure as a key factor to identify the conductivity mechanism in protic ionic liquids. *Physical Review Letters*, **2013**, 111, 225703	7.4	59
33	Effect of amorphization method on telmisartan solubility and the tableting process. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 83, 114-21	5.7	33
32	The behavior and origin of the excess wing in DEET (N,N-diethyl-3-methylbenzamide). *Physical Chemistry Chemical Physics*, **2013**, 15, 9300-7	3.6	5
31	Relaxation dynamics and crystallization study of sildenafil in the liquid and glassy states. *Molecular Pharmaceutics*, **2013**, 10, 2270-82	5.6	53

30	Decoupling of conductivity relaxation from structural relaxation in protic ionic liquids and general properties. *Physical Chemistry Chemical Physics*, **2013**, 15, 9205-11	3.6	35
29	Effect of pressure on decoupling of ionic conductivity from structural relaxation in hydrated protic ionic liquid, lidocaine HCl. *Journal of Chemical Physics*, **2013**, 138, 204502	3.9	22
28	Molecular dynamics, physical stability and solubility advantage from amorphous indapamide drug. *Molecular Pharmaceutics*, **2013**, 10, 3612-27	5.6	42
27	Heterogeneous dynamics of prototypical ionic glass CKN monitored by physical aging. *Physical Review Letters*, **2013**, 110, 015702	7.4	43
26	Molecular dynamics studies on the water mixtures of pharmaceutically important ionic liquid lidocaine HCl. *Molecular Pharmaceutics*, **2012**, 9, 1250-61	5.6	44
25	Tracking of Proton Transfer Reaction in Supercooled RNA Nucleoside. *Journal of Physical Chemistry Letters*, **2012**, 3, 2288-92	6.4	11
24	Pressure coefficient of the glass transition temperature in the thermodynamic scaling regime. *Physical Review E*, **2012**, 86, 041502	2.4	18
23	Quantifying the Structural Dynamics of Pharmaceuticals in the Glassy State. *Journal of Physical Chemistry Letters*, **2012**, 3, 1238-41	6.4	43
22	Anomalous electrical conductivity behavior at elevated pressure in the protic ionic liquid procainamide hydrochloride. *Physical Review Letters*, **2012**, 108, 015701	7.4	56
21	Fundamentals of ionic conductivity relaxation gained from study of procaine hydrochloride and procainamide hydrochloride at ambient and elevated pressure. *Journal of Chemical Physics*, **2012**, 136, 164507	3.9	27
20	High pressure study of molecular dynamics of protic ionic liquid lidocaine hydrochloride. *Journal of Chemical Physics*, **2012**, 136, 224501	3.9	24
19	Molecular dynamics of the cryomilled base and hydrochloride ziprasidones by means of dielectric spectroscopy. *Journal of Pharmaceutical Sciences*, **2011**, 100, 2642-57	3.9	23
18	Theoretical and experimental studies on the internal mobility of two sulfonylurea agents: glibenclamide and glimepiride. *Journal of Physics Condensed Matter*, **2011**, 23, 425901	1.8	4
17	Do intermolecular interactions control crystallization abilities of glass-forming liquids?. *Journal of Physical Chemistry B*, **2011**, 115, 11537-47	3.4	34
16	Thermodynamic scaling of molecular dynamics in supercooled ibuprofen. *Journal of Physical Chemistry B*, **2011**, 115, 4559-67	3.4	13
15	Molecular dynamics and crystallization phenomenon of supercooled and glassy DNA and RNA nucleosides: adenosine, thymidine, and uridine. *Physical Review E*, **2011**, 84, 051507	2.4	14
14	The tautomerization phenomenon of glibenclamide drug monitored by means of volumetric measurements. *Journal of Chemical Physics*, **2011**, 135, 214506	3.9	8
13	Dynamics of the slow mode in the family of six-carbon monosaccharides monitored by dielectric spectroscopy. *Journal of Physics Condensed Matter*, **2010**, 22, 365103	1.8	7

12	Study of molecular dynamics of the pharmaceutically important protic ionic liquid verapamil hydrochloride. II. Test of entropic models. *Journal of Chemical Physics*, **2010**, 132, 094506	3.9	19
11	Molecular dynamics and physical stability of amorphous anti-inflammatory drug: celecoxib. *Journal of Physical Chemistry B*, **2010**, 114, 12792-801	3.4	101
10	On the kinetics of tautomerism in drugs: New application of broadband dielectric spectroscopy. *Journal of Chemical Physics*, **2010**, 133, 094507	3.9	46
9	Study of the amorphous glibenclamide drug: analysis of the molecular dynamics of quenched and cryomilled material. *Molecular Pharmaceutics*, **2010**, 7, 1692-707	5.6	76
8	Effect of pressure on tautomersSequilibrium in supercooled glibenclamide drug: analysis of fragility behavior. *Journal of Physical Chemistry B*, **2010**, 114, 14815-20	3.4	15
7	Dielectric relaxation and crystallization kinetics of ibuprofen at ambient and elevated pressure. *Journal of Physical Chemistry B*, **2010**, 114, 6579-93	3.4	94
6	Origin of the commonly observed secondary relaxation process in saccharides. *Journal of Physical Chemistry B*, **2010**, 114, 11272-81	3.4	31
5	Observation of the dynamics of clusters in D-glucose with the use of dielectric spectroscopy. *Physical Chemistry Chemical Physics*, **2010**, 12, 723-30	3.6	14
4	Dielectric relaxation studies and dissolution behavior of amorphous verapamil hydrochloride. *Journal of Pharmaceutical Sciences*, **2010**, 99, 828-39	3.9	53
3	Study of molecular dynamics of pharmaceutically important protic ionic liquid-verapamil hydrochloride. I. Test of thermodynamic scaling. *Journal of Chemical Physics*, **2009**, 131, 104505	3.9	75
2	Molecular mobility in liquid and glassy states of telmisartan (TEL) studied by broadband dielectric spectroscopy. *European Journal of Pharmaceutical Sciences*, **2009**, 38, 395-404	5.1	56
1	Broadband dielectric relaxation study at ambient and elevated pressure of molecular dynamics of pharmaceutical: indomethacin. *Journal of Physical Chemistry B*, **2009**, 113, 12536-45	3.4	116