

Richard Buchner

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8631061/richard-buchner-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

186
papers

9,862
citations

55
h-index

93
g-index

198
ext. papers

10,678
ext. citations

4.2
avg. IF

6.35
L-index

#	Paper	IF	Citations
186	The dielectric relaxation of water between 0°C and 35°C. <i>Chemical Physics Letters</i> , 1999 , 306, 57-63	2.5	470
185	Dielectric spectra of some common solvents in the microwave region. Water and lower alcohols. <i>Chemical Physics Letters</i> , 1990 , 165, 369-373	2.5	429
184	Dielectric Relaxation of Aqueous NaCl Solutions. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 1-9	2.8	379
183	Relation between dielectric and low-frequency Raman spectra of hydrogen-bond liquids. <i>Physical Review Letters</i> , 2005 , 95, 197802	7.4	246
182	Dynamics of imidazolium ionic liquids from a combined dielectric relaxation and optical Kerr effect study: evidence for mesoscopic aggregation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11140-6	16.4	232
181	Conductivities of Binary Mixtures of Ionic Liquids with Polar Solvents. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 472-479	2.8	228
180	Complexity in Simple Electrolyte Solutions: Ion Pairing in MgSO ₄ (aq). <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2365-2375	3.4	225
179	Interactions and dynamics in electrolyte solutions by dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8984-99	3.6	219
178	High frequency permittivity and its use in the investigation of solution properties. <i>Pure and Applied Chemistry</i> , 1991 , 63, 1473-1482	2.1	180
177	Temperature dependence of the dielectric properties and dynamics of ionic liquids. <i>ChemPhysChem</i> , 2009 , 10, 723-33	3.2	175
176	The Conductivity of Imidazolium-Based Ionic Liquids from (248 to 468) K. B. Variation of the Anion Alkyl Chain. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1774-1778	2.8	148
175	Interactions and dynamics in ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4854-8	3.4	148
174	The Conductivity of Imidazolium-Based Ionic Liquids from (85 to 195) °C. A. Variation of Cation Alkyl Chain. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1768-1773	2.8	143
173	Dielectric spectra of some common solvents in the microwave region. Dipolar aprotic solvents and amides. <i>Chemical Physics Letters</i> , 1990 , 167, 62-66	2.5	139
172	Is there an anionic Hofmeister effect on water dynamics? Dielectric spectroscopy of aqueous solutions of NaBr, NaI, NaNO ₃ , NaClO ₄ , and NaSCN. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8675-83	2.8	133
171	Dielectric Relaxation Processes in Ethanol/Water Mixtures. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 5007-5015	2.8	129
170	Dielectric spectroscopy of ion-pairing and hydration in aqueous tetra-n-alkylammonium halide solutions. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 2169-2179	3.6	129

169	Ion-Pair and Solvent Relaxation Processes in Aqueous Na ₂ SO ₄ Solutions. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1185-1192	3.4	129
168	Why are ionic liquid ions mainly associated in water? A Car-Parrinello study of 1-ethyl-3-methyl-imidazolium chloride water mixture. <i>Journal of Chemical Physics</i> , 2008 , 129, 104505	3.9	123
167	The cellulose solvent system N,N-dimethylacetamide/lithium chloride revisited: the effect of water on physicochemical properties and chemical stability. <i>Cellulose</i> , 2002 , 9, 41-53	5.5	113
166	Density, viscosity, and conductivity of choline chloride + ethylene glycol as a deep eutectic solvent and its binary mixtures with dimethyl sulfoxide. <i>Journal of Molecular Liquids</i> , 2017 , 225, 689-695	6	112
165	Complex formation in aqueous trimethylamine-N-oxide (TMAO) solutions. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4783-95	3.4	111
164	Dielectric Spectroscopy of Aqueous Solutions of KCl and CsCl. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4025-4031	2.8	110
163	Influence of concentration and temperature on the dynamics of water in the hydrophobic hydration shell of tetramethylurea. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15671-8	16.4	109
162	Dielectric relaxation spectroscopy of electrolyte solutions. Recent developments and prospects. <i>Journal of Molecular Liquids</i> , 1998 , 78, 83-109	6	109
161	Ion association and hydration in aqueous solutions of LiCl and Li ₂ SO ₄ by dielectric spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 9010-7	3.4	109
160	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Journal of Chemical Physics</i> , 2008 , 128, 214509	3.9	108
159	The dynamics of liquid formamide, N-methylformamide, N,N-dimethylformamide, and N,N-dimethylacetamide. A dielectric relaxation study. <i>Journal of Molecular Liquids</i> , 2002 , 98-99, 51-69	6	105
158	How ideal are binary mixtures of room-temperature ionic liquids?. <i>Journal of Molecular Liquids</i> , 2010 , 153, 46-51	6	102
157	Densities, Viscosities, and Conductivities of the Imidazolium Ionic Liquids [Emim][Ac], [Emim][FAP], [Bmim][BETI], [Bmim][FSI], [Hmim][TFSI], and [Omim][TFSI]. <i>Journal of Chemical & Engineering Data</i> , 2015 , 60, 2400-2411	2.8	99
156	Dielectric relaxation spectroscopy of 2-propanol/water mixtures. <i>Journal of Chemical Physics</i> , 2003 , 118, 4606-4613	3.9	98
155	Diffusion in ionic liquids: the interplay between molecular structure and dynamics. <i>Soft Matter</i> , 2011 , 7, 1678	3.6	93
154	What can be learnt from dielectric relaxation spectroscopy about ion solvation and association?. <i>Pure and Applied Chemistry</i> , 2008 , 80, 1239-1252	2.1	92
153	A Computer-controlled System of Transmission Lines for the Determination of the Complex Permittivity of Lossy Liquids between 8.5 and 90 GHz. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991 , 95, 853-859		91
152	Dielectric Relaxation of Aqueous Electrolyte Solutions II. Ion-Pair Relaxation of 1:2, 2:1, and 2:2 Electrolytes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992 , 96, 1424-1432		90

151	From ionic liquid to electrolyte solution: dynamics of 1-N-butyl-3-N-methylimidazolium tetrafluoroborate/dichloromethane mixtures. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 12913-9	3.4	87
150	Dielectric spectroscopy of micelle hydration and dynamics in aqueous ionic surfactant solutions. <i>Journal of Molecular Liquids</i> , 2005 , 118, 179-187	6	84
149	On the collective network of ionic liquid/water mixtures. II. Decomposition and interpretation of dielectric spectra. <i>Journal of Chemical Physics</i> , 2008 , 129, 184501	3.9	83
148	Dielectric Relaxation of Dilute Aqueous NaOH, NaAl(OH) ₄ , and NaB(OH) ₄ . <i>Journal of Physical Chemistry B</i> , 1999 , 103, 11186-11190	3.4	82
147	Glasslike behavior in aqueous electrolyte solutions. <i>Journal of Chemical Physics</i> , 2008 , 128, 161102	3.9	81
146	FTIR Spectroscopy of Ion Solvation of LiClO ₄ and LiSCN in Acetonitrile, Benzonitrile, and Propylene Carbonate. <i>Journal of Solution Chemistry</i> , 2000 , 29, 937-954	1.8	77
145	Association of ionic liquids in solution: a combined dielectric and conductivity study of [bmim][Cl] in water and in acetonitrile. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 17588-98	3.6	76
144	Broadband dielectric response of the ionic liquid N-methyl-N-ethylpyrrolidinium dicyanamide. <i>Chemical Communications</i> , 2006 , 1748-50	5.8	75
143	Dielectric Relaxation of Cationic Surfactants in Aqueous Solution. 1. Solvent Relaxation. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2906-2913	3.4	75
142	The cooperative dynamics of the H-bond system in 2-propanol/water mixtures: Steric hindrance effects of nonpolar head group. <i>Journal of Chemical Physics</i> , 2003 , 119, 10789-10800	3.9	64
141	Hydration of formate and acetate ions by dielectric relaxation spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 314-23	3.4	62
140	Dynamics of RTILs: A comparative dielectric and OKE study. <i>Journal of Molecular Liquids</i> , 2014 , 192, 19-25	3.5	61
139	Structure and dynamics of 1-N-alkyl-3-N-methylimidazolium tetrafluoroborate + acetonitrile mixtures. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7509-21	3.4	60
138	Dielectric relaxation and solvation dynamics in a prototypical ionic liquid + dipolar protic liquid mixture: 1-butyl-3-methylimidazolium tetrafluoroborate + water. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 15356-68	3.4	60
137	Dipole correlations in the ionic liquid 1-N-ethyl-3-N-methylimidazolium ethylsulfate and its binary mixtures with dichloromethane. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9527-37	3.4	60
136	Hydrogen-Bond Dynamics in a Protic Ionic Liquid: Evidence of Large-Angle Jumps. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3034-8	6.4	59
135	Effects of nonionic surfactant C12E5 on the cooperative dynamics of water. <i>Langmuir</i> , 2006 , 22, 924-32	4	59
134	Dielectric properties of oil/water complexes using terahertz transmission spectroscopy. <i>Chemical Physics Letters</i> , 2006 , 421, 494-498	2.5	59

133	1-Ethyl-3-methylimidazolium Ethylsulfate in Water, Acetonitrile, and Dichloromethane: Molar Conductivities and Association Constants. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 1261-1267	2.8	56
132	Ion hydration and association in aqueous potassium phosphate solutions. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 5270-81	3.4	55
131	Intramolecular charge transfer reaction, polarity, and dielectric relaxation in AOT/water/heptane reverse micelles: pool size dependence. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9379-88	3.4	55
130	Dielectric relaxation spectroscopy of aqueous amino acid solutions: dynamics and interactions in aqueous glycine. <i>Journal of Molecular Liquids</i> , 2005 , 117, 93-98	6	55
129	Hydration of tetraphenylphosphonium and tetraphenylborate ions by dielectric relaxation spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5147-54	3.4	54
128	Hydration and Ion Binding of the Osmolyte Ectoine. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 15203-113	3.4	52
127	Structure and dynamics in protic ionic liquids: a combined optical Kerr-effect and dielectric relaxation spectroscopy study. <i>Faraday Discussions</i> , 2012 , 154, 145-53; discussion 189-220, 465-71	3.6	52
126	9 Dielectric relaxation in solutions. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2001 , 97, 349-382		51
125	Dielectric Relaxation of Cationic Surfactants in Aqueous Solution. 2. Solute Relaxation. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2914-2922	3.4	51
124	Dielectric relaxation of electrolyte solutions in acetonitrile. <i>Journal of Solution Chemistry</i> , 1995 , 24, 1-17	1.8	50
123	Temperature effects on ion association and hydration in MgSO ₄ by dielectric spectroscopy. <i>ChemPhysChem</i> , 2006 , 7, 2319-30	3.2	48
122	Effect of the Chain Length on the Inter- and Intramolecular Dynamics of Liquid Oligo(ethylene glycol)s. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 6281-7	3.4	48
121	Dielectric relaxation of aqueous NaF and KF solutions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994 , 90, 2475		48
120	Densities, Viscosities, and Electrical Conductivities of Pure Anhydrous Reline and Its Mixtures with Water in the Temperature Range (293.15 to 338.15) K. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 4763-4774	2.8	47
119	Ion association of alkaline and alkaline-earth metal perchlorates in acetonitrile. <i>Journal of Molecular Liquids</i> , 2006 , 129, 3-12	6	47
118	Molar Conductivities and Association Constants of 1-Butyl-3-methylimidazolium Chloride and 1-Butyl-3-methylimidazolium Tetrafluoroborate in Methanol and DMSO. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 1799-1803	2.8	46
117	Micelle and solvent relaxation in aqueous sodium dodecylsulfate solutions. <i>ChemPhysChem</i> , 2003 , 4, 1065-72	3.2	45
116	Ion Association and Hydration in Aqueous Solutions of Nickel(II) and Cobalt(II) Sulfate. <i>Journal of Solution Chemistry</i> , 2005 , 34, 1045-1066	1.8	44

115	Dynamics of methanol-tetrachloromethane mixtures—dielectric relaxation study. <i>Journal of Molecular Liquids</i> , 1992 , 52, 131-144	6	44
114	Are nanoscale ion aggregates present in aqueous solutions of guanidinium salts?. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13617-27	3-4	43
113	Ion association of imidazolium ionic liquids in acetonitrile. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 1426-35	3-4	42
112	Correlation between polarity parameters and dielectric properties of [Na][TOTO]—a sodium ionic liquid. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14341-50	3.6	42
111	Cooperative and molecular dynamics of alcohol/water mixtures: the view of dielectric spectroscopy. <i>Journal of Molecular Liquids</i> , 2005 , 117, 23-31	6	42
110	Ultra-Broadband Dielectric and Optical Kerr-Effect Study of the Ionic Liquids Ethyl and Propylammonium Nitrate. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 8826-41	3-4	41
109	Densities, Viscosities [from (278.15 to 318.15) K], and Electrical Conductivities (at 298.15 K) of Aqueous Solutions of Choline Chloride and Chloro-Choline Chloride. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 4944-4949	2.8	40
108	A Time Domain Reflectometer for Dielectric Relaxation Spectroscopy of Electrolyte Solutions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997 , 101, 1509-1516		40
107	Ion association and hydration in aqueous solutions of copper(II) sulfate from 5 to 65 degrees C by dielectric spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14961-70	3-4	40
106	The influence of polarizability on the dielectric spectrum of the ionic liquid 1-ethyl-3-methylimidazolium triflate. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 12240-8	3.6	39
105	Hydration and ion pairing in aqueous sodium oxalate solutions. <i>ChemPhysChem</i> , 2003 , 4, 373-8	3.2	39
104	Broadband dielectric response of dichloromethane. <i>Chemical Physics Letters</i> , 2009 , 471, 85-91	2.5	38
103	Dielectric spectroscopy of hydrogen bond dynamics and microheterogeneity of water + dioxane mixtures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5946-55	3-4	38
102	Kinetic processes in the liquid phase studied by high-frequency permittivity measurements. <i>Journal of Molecular Liquids</i> , 1995 , 63, 55-75	6	38
101	Dielectric properties of nonaqueous electrolyte solutions. <i>Pure and Applied Chemistry</i> , 1986 , 58, 1077-1090		36
100	Poly(ethylene glycol)-conjugated phospholipids in aqueous micellar solutions: hydration, static structure, and interparticle interactions. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 1393-401	3-4	35
99	Dielectric relaxation of aqueous electrolyte solutions. I. Solvent relaxation of 1:2, 2:1, and 2:2 electrolyte solutions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992 , 96, 988-997		35
98	Cation Hydration and Ion Pairing in Aqueous Solutions of MgCl and CaCl. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 891-900	3-4	34

97	Hydration of Sodium Alginate in Aqueous Solution. <i>Macromolecules</i> , 2014 , 47, 771-776	5.5	33
96	Ion-pair or ion-cloud relaxation? On the origin of small-amplitude low-frequency relaxations of weakly associating aqueous electrolytes. <i>Journal of Molecular Liquids</i> , 2012 , 176, 52-59	6	33
95	Translational diffusion in mixtures of imidazolium ILs with polar aprotic molecular solvents. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 5509-17	3.4	32
94	Rattling the cage: Micro- to mesoscopic structure in liquids as simple as argon and as complicated as water. <i>Journal of Molecular Liquids</i> , 2011 , 159, 2-8	6	32
93	Molecular processes in electrolyte solutions at microwave frequencies. <i>Pure and Applied Chemistry</i> , 1990 , 62, 2287-2296	2.1	32
92	Dielectric response and collective dynamics of acetonitrile. <i>Journal of Molecular Liquids</i> , 2015 , 212, 963-968		31
91	Dielectric relaxation of aqueous Na ₂ CO ₃ solutions. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 1933-1938		31
90	Ionic liquids: not only structurally but also dynamically heterogeneous. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 687-90	16.4	30
89	Ion association and hydration in 3:2 electrolyte solutions by dielectric spectroscopy: Aluminum sulfate. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 5287-5300	5.5	30
88	Ion association and solvation of perchlorate salts in N,N-dimethylformamide and N,N-dimethylacetamide: A dielectric relaxation study. <i>Journal of Molecular Liquids</i> , 2005 , 119, 97-106	6	28
87	Hydrophilic and hydrophobic hydration of sodium propanoate and sodium butanoate in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2142-52	3.4	26
86	High Frequency Dielectric Response of the Ionic Liquid N-Methyl-N-ethylpyrrolidinium Dicyanamide. <i>Australian Journal of Chemistry</i> , 2007 , 60, 6	1.2	25
85	Picosecond dynamics and microheterogeneity of water+dioxane mixtures. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2043-6	2.8	25
84	Urea hydration from dielectric relaxation spectroscopy: old findings confirmed, new insights gained. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2597-607	3.6	24
83	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6244-6252	3.4	24
82	Dielectric Relaxation Spectroscopy of Aliphatic Ionene Bromides and Fluorides in Water: The Role of the Polyion Charge Density and the Nature of the Counterions. <i>Macromolecules</i> , 2009 , 42, 4337-4342	5.5	23
81	Dielectric Relaxation of Concentrated Alkaline Aluminate Solutions. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 6527-6532	2.8	23
80	A conductance study of guanidinium chloride, thiocyanate, sulfate, and carbonate in dilute aqueous solutions: ion-association and carbonate hydrolysis effects. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 615-22	3.4	22

79	Relative Permittivity of Dimethylsulfoxide and N,N-Dimethylformamide at Temperatures from (278 to 328) K and Pressures from (0.1 to 5) MPa. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 2055-2065	2.8	22
78	Effects of hydration on the thermodynamic properties of aqueous ethylene glycol ether solutions. <i>Journal of Chemical Thermodynamics</i> , 2005 , 37, 513-522	2.9	22
77	Spectroscopic studies of solute-solute and solute-solvent interactions in solutions containing N,N-dimethylformamide. <i>Faraday Discussions of the Chemical Society</i> , 1988 , 85, 211-224		22
76	Features of ion hydration and association in aqueous rubidium fluoride solutions at ambient conditions. <i>Journal of Molecular Liquids</i> , 2011 , 159, 9-17	6	21
75	Ion Pairing and Solvent Relaxation Processes in Aqueous Solutions of Sodium Malonate and Sodium Succinate. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13789-13795	3.4	21
74	Dielectric permittivity and relaxation of electrolyte solutions and their solvents. <i>Chemical Society Reviews</i> , 1992 , 21, 263	58.5	21
73	Leitfähigkeit und dielektrische Eigenschaften wässriger CdSO ₄ -Lösungen. <i>Zeitschrift Fur Physikalische Chemie</i> , 1984 , 139, 23-37	3.1	21
72	Automated apparatus for the rapid determination of liquid-liquid and solid-liquid phase transitions. <i>Fluid Phase Equilibria</i> , 2004 , 216, 175-182	2.5	20
71	Dielectric relaxation spectroscopy of ion-solvent interactions in formamide and N-methylformamide. <i>Journal of Molecular Liquids</i> , 2006 , 127, 14-20	6	19
70	Hydration and Counterion Binding of [CMIM] Micelles. <i>Langmuir</i> , 2017 , 33, 9844-9856	4	18
69	Densities, Refractive Indices, Viscosities, and Conductivities of Non-Imidazolium Ionic Liquids [Et ₃ S][TFSI], [Et ₂ MeS][TFSI], [BuPy][TFSI], [N8881][TFA], and [P14][DCA]. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 2549-2561	2.8	17
68	Dynamics of water confined in self-assembled monoglyceride-water bilayers. <i>Soft Matter</i> , 2011 , 7, 1409-1417	3.6	17
67	Hydration and self-aggregation of a neutral cosolute from dielectric relaxation spectroscopy and MD simulations: the case of 1,3-dimethylurea. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 219-230	3.6	16
66	Hydration and ion association of aqueous choline chloride and chlorocholine chloride. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 10970-10980	3.6	16
65	Dielectric response and transport properties of alkylammonium formate ionic liquids. <i>Journal of Chemical Physics</i> , 2018 , 148, 193836	3.9	16
64	Dielectric relaxation spectroscopy shows a sparingly hydrated interface and low counterion mobility in triflate micelles. <i>Langmuir</i> , 2013 , 29, 10037-46	4	16
63	Properties of Sodium Tetrafluoroborate Solutions in 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3019-3025	2.8	16
62	Modelling fast mode dielectric relaxation of counterions in aqueous solutions of ionene bromides and fluorides. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10053-8	3.6	16

61	Dynamics of Benzonitrile, Propylene Carbonate and Butylene Carbonate: the Influence of Molecular Shape and Flexibility on the Dielectric Relaxation Behaviour of Dipolar Aprotic Liquids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2000 , 214,	3.1	16
60	Variation of Density, Viscosity, and Electrical Conductivity of the Deep Eutectic Solvent Reline, Composed of Choline Chloride and Urea at a Molar Ratio of 1:2, Mixed with Dimethylsulfoxide as a Cosolvent. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 1900-1910	2.8	15
59	Evidence for cooperative Na and Cl binding by strongly hydrated l-proline. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20474-20483	3.6	15
58	Is surface layering of aqueous alkali halides determined by ion pairing in the bulk solution?. <i>Journal of Chemical Physics</i> , 2014 , 141, 18C509	3.9	15
57	Molar Volumes and Heat Capacities of Electrolytes and Ions in Nonaqueous Solvents: 1. Formamide. <i>Journal of Solution Chemistry</i> , 1998 , 27, 1067-1096	1.8	15
56	Dielectric Spectroscopy of Cesium Fluoride in Methanol. <i>Journal of Solution Chemistry</i> , 2002 , 31, 521-535	1.8	15
55	Hydration and ion association of La and Eu salts in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8812-8821	3.6	14
54	Do H-bonds explain strong ion aggregation in ethylammonium nitrate + acetonitrile mixtures?. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18445-52	3.6	14
53	Electrical Conductivity Studies of Tetraalkylammonium Bromides in Aqueous Solutions at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 2203-2210	2.8	14
52	Dynamic solvent effects in electrochemical kinetics: indications for a switch of the relevant solvent mode. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 311-20	3.4	14
51	Hydration and sodium-ion binding of trifluoroacetate in aqueous solution. <i>Journal of Molecular Liquids</i> , 2012 , 176, 93-100	6	13
50	Dielectric relaxation study of the ion solvation and association of NaCF ₃ SO ₃ , Mg(CF ₃ SO ₃) ₂ , and Ba(ClO ₄) ₂ in N,N-dimethylformamide. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 2234-42	3.4	13
49	Scandium sulfate complexation in aqueous solution by dielectric relaxation spectroscopy. <i>Inorganic Chemistry</i> , 2008 , 47, 8619-28	5.1	13
48	Percolating microemulsions of nonionic surfactants probed by dielectric spectroscopy. <i>ChemPhysChem</i> , 2005 , 6, 1051-5	3.2	13
47	FT-far-infrared spectroscopic studies of solute-solvent interactions and molecular dynamics in solutions of methanol, N-methyl formamide and N,N-dimethyl formamide. <i>Mikrochimica Acta</i> , 1988 , 95, 335-337	5.8	13
46	Insight into the Hydration of Cationic Surfactants: A Thermodynamic and Dielectric Study of Functionalized Quaternary Ammonium Chlorides. <i>Langmuir</i> , 2019 , 35, 3759-3772	4	13
45	Sodium triflate decreases interaggregate repulsion and induces phase separation in cationic micelles. <i>Langmuir</i> , 2015 , 31, 2609-14	4	12
44	Comment on "An explanation for the charge on water's surface" by A. Gray-Weale and J. K. Beattie, <i>Phys. Chem. Chem. Phys.</i> , 2009, 11, 10994. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14362-3; discussion 14364-6	3.6	12

43	La[Fe(CN) ₆] ion pairing in aqueous solution. A dielectric relaxation study. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 105-109	3.6	12
42	Dielectric relaxation and ultrafast transient absorption spectroscopy of [C6mim] ⁺ [Tf2N] ⁻ acetonitrile mixtures. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3596-603	3.6	11
41	Quasi-linear least squares and computer code for numerical evaluation of relaxation time distribution from broadband dielectric spectra. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 025903	1.8	11
40	Microglobule formation and a microscopic order parameter monitoring the phase transition of aqueous poly(N-isopropylacrylamide) solution. <i>Physical Review Materials</i> , 2018 , 2,	3.2	11
39	A Comprehensive Study of Density, Viscosity, and Electrical Conductivity of (Choline Chloride + Glycerol) Deep Eutectic Solvent and Its Mixtures with Dimethyl Sulfoxide. <i>Journal of Chemical & Engineering Data</i> , 2021 , 66, 780-792	2.8	11
38	Dielectric Spectroscopy of Solutions 2004 , 265-288		11
37	Water-separated ion pairs cause the slow dielectric mode of magnesium sulfate solutions. <i>Journal of Chemical Physics</i> , 2018 , 148, 222812	3.9	10
36	The Interplay of Methyl-Group Distribution and Hydration Pattern of Isomeric Amphiphilic Osmolytes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 5972-5983	3.4	9
35	Dynamics of molten CF ₃ SO ₃ H/H ₂ O probed by temperature dependent dielectric spectroscopy. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 1953-1958		9
34	Dielectric relaxation of deep eutectic solvent + water mixtures: structural implications and application to microwave heating. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 20466-20476	3.6	9
33	Partial molar volume and isentropic compressibility of symmetrical and asymmetrical quaternary ammonium bromides in aqueous solution. <i>Journal of Chemical Thermodynamics</i> , 2015 , 87, 103-109	2.9	8
32	Dielectric relaxation of nitromethane and its mixtures with ethylammonium nitrate: Evidence for strong ion association induced by hydrogen bonding. <i>Journal of Molecular Liquids</i> , 2017 , 228, 81-90	6	8
31	Far-infrared studies of molecular dynamics and interactions in N, N-dimethylformamide. <i>Molecular Physics</i> , 1990 , 71, 65-77	1.7	8
30	Specific Ion Effects on Zwitterionic Micelles Are Independent of Interfacial Hydration Changes. <i>Langmuir</i> , 2018 , 34, 11049-11057	4	7
29	Molecular to diffusion dynamics and static structures of aqueous micellar solutions: A SAXS/DLS/DRS study. <i>Journal of Molecular Liquids</i> , 2011 , 159, 76-82	6	7
28	Dielectric relaxation spectroscopy: an old-but-new technique for the investigation of electrolyte solutions. <i>Pure and Applied Chemistry</i> , 2020 , 92, 1595-1609	2.1	7
27	Apparent molal volumes of symmetrical and asymmetrical isomers of tetrabutylammonium bromide in water at several temperatures. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 117-121	2.9	6
26	Far-infrared studies of the molecular dynamics and interactions in N-methyl formide. <i>Journal of Molecular Liquids</i> , 1991 , 49, 141-154	6	6

25	Microscopic insights into the phase transition of poly(N-isopropylacrylamide) in aqueous media: Effects of molecular weight and polymer concentration. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112025	6	6
24	Systematic Variations of Ion Hydration in Aqueous Alkali Metal Fluoride Solutions. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 10868-10876	3.4	6
23	Influence of various commercial water treatment processes on the electric conductivity of several drinking waters. <i>Journal of Molecular Liquids</i> , 2011 , 160, 144-149	6	5
22	Comment on "Dynamic ion association in aqueous solutions of sulfate" [J. Chem. Phys. 123, 034508 (2005)]. <i>Journal of Chemical Physics</i> , 2006 , 124, 247101; author reply 247102	3.9	5
21	Dynamic Chelate Effect on the Li ⁺ -Ion Conduction in Solvate Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30228-30233	3.8	5
20	Dielectric properties and kinetic analysis of nonisothermal decomposition of ionic liquids derived from organic acid. <i>Thermochimica Acta</i> , 2019 , 672, 43-52	2.9	5
19	The effect of alkyl-chain branching on the hydration and ion association of tetrabutylammonium cations. <i>Journal of Molecular Liquids</i> , 2017 , 248, 586-594	6	4
18	Interplay between aggregation number, micelle charge and hydration of cationic surfactants. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9998-10009	3.6	4
17	Ionische Flüssigkeiten: nicht nur strukturell, sondern auch dynamisch heterogen. <i>Angewandte Chemie</i> , 2015 , 127, 697-700	3.6	4
16	Structure, molecular dynamics, and interactions in aqueous xylitol solutions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24061-24069	3.6	4
15	Hydration and dynamics of L-glutamate ion in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 1590-1600	3.6	4
14	Hydration and Counterion Binding of an Aminomethylated Resorcin[4]arene. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1840-1846	3.4	3
13	Relative Permittivity and Refractive Index. <i>Experimental Thermodynamics</i> , 2003 , 6, 433-473		3
12	Chemical Speciation in Ionic Liquids and their Mixtures with Polar Solvents Using Dielectric Spectroscopy. <i>ACS Symposium Series</i> , 2010 , 61-74	0.4	2
11	Cooperative motion of liquids in the strong interaction field. <i>Journal of Molecular Liquids</i> , 1998 , 78, 29-36		2
10	Effect of Brønsted Acidity on Ion Conduction in Fluorinated Acetic Acid and -Methylimidazole Equimolar Mixtures as Pseudo-protic Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 11157-11164	3.4	2
9	Cooperative dynamics and speciation in deep eutectic solvent + DMSO mixtures. <i>Journal of Molecular Liquids</i> , 2021 , 331, 115790	6	2
8	Femto- to Nanosecond Dynamics in Ionic Liquids: From Single Molecules to Collective Motions. <i>Advances in Dielectrics</i> , 2016 , 53-71	0.6	2

7	Ion fluctuations and intermembrane interactions in the aqueous dispersions of a dialkylchain cationic surfactant studied using dielectric relaxation spectroscopy and small- and wide-angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 26621-26633	3.6	2
6	Solvation and association of 3:1 electrolytes in N,N-dimethylformamide. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 14468-76	3.4	1
5	Glasslike Behaviour in Aqueous Electrolyte Solutions. <i>Springer Series in Chemical Physics</i> , 2009 , 484-486	0.3	1
4	Equilibria and Dynamics of Sodium Citrate Aqueous Solutions: The Hydration of Citrate and Formation of the NaCit Ion Aggregate. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9604-9614	3.4	1
3	Hydration and aggregation in aqueous xylitol solutions in the wide temperature range. <i>Journal of Molecular Liquids</i> , 2021 , 340, 116838	6	1
2	Temperature effect on the solvation of two ionic resorcin[4]arenes from volumetric and acoustic properties in polar media. <i>Journal of Molecular Liquids</i> , 2019 , 291, 111233	6	0
1	Hydration and counterion binding of aqueous acetylcholine chloride and carbamoylcholine chloride. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25086-25096	3.6	0