

Richard Buchner

List of Publications by Year in descending order

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192
papers

11,553
citations

22132

59
h-index

32815

100
g-index

198
all docs

198
docs citations

198
times ranked

7224
citing authors

#	ARTICLE	IF	CITATIONS
1	The dielectric relaxation of water between 0°C and 35°C. <i>Chemical Physics Letters</i> , 1999, 306, 57-63.	1.2	534
2	Dielectric spectra of some common solvents in the microwave region. Water and lower alcohols. <i>Chemical Physics Letters</i> , 1990, 165, 369-373.	1.2	468
3	Dielectric Relaxation of Aqueous NaCl Solutions. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1-9.	1.1	438
4	Relation between Dielectric and Low-Frequency Raman Spectra of Hydrogen-Bond Liquids. <i>Physical Review Letters</i> , 2005, 95, 197802.	2.9	291
5	Conductivities of Binary Mixtures of Ionic Liquids with Polar Solvents. <i>Journal of Chemical & Engineering Data</i> , 2009, 54, 472-479.	1.0	267
6	Interactions and dynamics in electrolyte solutions by dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8984.	1.3	264
7	Complexity in Simple Electrolyte Solutions: Ion Pairing in MgSO ₄ (aq). <i>Journal of Physical Chemistry B</i> , 2004, 108, 2365-2375.	1.2	258
8	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, 11140-11146.	6.6	248
9	High frequency permittivity and its use in the investigation of solution properties. <i>Pure and Applied Chemistry</i> , 1991, 63, 1473-1482.	0.9	204
10	Temperature Dependence of the Dielectric Properties and Dynamics of Ionic Liquids. <i>ChemPhysChem</i> , 2009, 10, 723-733.	1.0	196
11	Dielectric Relaxation Processes in Ethanol/Water Mixtures. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5007-5015.	1.1	167
12	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.	2.3	165
13	The Conductivity of Imidazolium-Based Ionic Liquids from (248 to 468) K. B. Variation of the Anion. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1774-1778.	1.0	162
14	Interactions and Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4854-4858.	1.2	158
15	Ion-Pair and Solvent Relaxation Processes in Aqueous Na ₂ SO ₄ Solutions. <i>Journal of Physical Chemistry B</i> , 1999, 103, 1185-1192.	1.2	156
16	The Conductivity of Imidazolium-Based Ionic Liquids from (35 to 195) °C. A. Variation of Cation's Alkyl Chain. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 1768-1773.	1.0	156
17	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, 8675-8683.	1.1	155
18	Dielectric spectra of some common solvents in the microwave region. Dipolar aprotic solvents and amides. <i>Chemical Physics Letters</i> , 1990, 167, 62-66.	1.2	150

#	ARTICLE	IF	CITATIONS
19	Dielectric spectroscopy of ion-pairing and hydration in aqueous tetra-n-alkylammonium halide solutions. Electronic supplementary information (ESI) available: Relaxation parameters and relevant solution properties. See http://www.rsc.org/suppdata/cp/b1/b110361j/ . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2169-2179.	1.3	139
20	Dielectric Spectroscopy of Aqueous Solutions of KCl and CsCl. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4025-4031.	1.1	134
21	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.	1.0	134
22	Dielectric relaxation spectroscopy of electrolyte solutions. Recent developments and prospects. <i>Journal of Molecular Liquids</i> , 1998, 78, 83-109.	2.3	130
23	Why are ionic liquid ions mainly associated in water? A Carâ€Parrinello study of 1-ethyl-3-methyl-imidazolium chloride water mixture. <i>Journal of Chemical Physics</i> , 2008, 129, 104505.	1.2	130
24	Title is missing!. <i>Cellulose</i> , 2002, 9, 41-53.	2.4	128
25	Complex Formation in Aqueous Trimethylamine-oxide (TMAO) Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4783-4795.	1.2	127
26	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, 15671-15678.	6.6	124
27	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, 9010-9017.	1.2	119
28	How ideal are binary mixtures of room-temperature ionic liquids?. <i>Journal of Molecular Liquids</i> , 2010, 153, 46-51.	2.3	117
29	Electrical conductivity and translational diffusion in the 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>Journal of Chemical Physics</i> , 2008, 128, 214509.	1.2	115
30	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.	2.3	113
31	What can be learnt from dielectric relaxation spectroscopy about ion solvation and association?. <i>Pure and Applied Chemistry</i> , 2008, 80, 1239-1252.	0.9	112
32	Dielectric relaxation spectroscopy of 2-propanolâ€water mixtures. <i>Journal of Chemical Physics</i> , 2003, 118, 4606-4613.	1.2	105
33	Diffusion in ionic liquids: the interplay between molecular structure and dynamics. <i>Soft Matter</i> , 2011, 7, 1678.	1.2	104
34	A Computerâ€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.	0.9	100
35	Dielectric Relaxation of Aqueous Electrolyte Solutions II. Ionâ€Pair Relaxation of 1:2, 2:1, and 2:2 Electrolytes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1992, 96, 1424-1432.	0.9	97
36	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.	1.2	95

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37	Glasslike behavior in aqueous electrolyte solutions. <i>Journal of Chemical Physics</i> , 2008, 128, 161102.	1.2	94
38	Dielectric spectroscopy of micelle hydration and dynamics in aqueous ionic surfactant solutions. <i>Journal of Molecular Liquids</i> , 2005, 118, 179-187.	2.3	93
39	From Ionic Liquid to Electrolyte Solution: Dynamics of 1-N-Butyl-3-methylimidazolium Tetrafluoroborate/Dichloromethane Mixtures. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12913-12919.	1.2	91
40	Dielectric Relaxation of Dilute Aqueous NaOH, NaAl(OH) ₄ , and NaB(OH) ₄ . <i>Journal of Physical Chemistry B</i> , 1999, 103, 11186-11190.	1.2	89
41	Title is missing!. <i>Journal of Solution Chemistry</i> , 2000, 29, 937-954.	0.6	88
42	Dielectric Relaxation of Cationic Surfactants in Aqueous Solution. 1. Solvent Relaxation. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2906-2913.	1.2	88
43	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.	1.3	87
44	Broadband dielectric response of the ionic liquid N-methyl-N-ethylpyrrolidinium dicyanamide. <i>Chemical Communications</i> , 2006, , 1748-1750.	2.2	80
45	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.	1.0	80
46	Hydration of Formate and Acetate Ions by Dielectric Relaxation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 314-323.	1.2	77
47	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.	1.2	75
48	Ion Hydration and Association in Aqueous Potassium Phosphate Solutions. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5270-5281.	1.2	74
49	Dynamics of RTILs: A comparative dielectric and OKE study. <i>Journal of Molecular Liquids</i> , 2014, 192, 19-25.	2.3	72
50	Dielectric properties of oil-water complexes using terahertz transmission spectroscopy. <i>Chemical Physics Letters</i> , 2006, 421, 494-498.	1.2	70
51	Dielectric relaxation spectroscopy of aqueous amino acid solutions: dynamics and interactions in aqueous glycine. <i>Journal of Molecular Liquids</i> , 2005, 117, 93-98.	2.3	66
52	Dielectric Relaxation of Cationic Surfactants in Aqueous Solution. 2. Solute Relaxation. <i>Journal of Physical Chemistry B</i> , 2001, 105, 2914-2922.	1.2	65
53	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.	1.0	65
54	Hydrogen-Bond Dynamics in a Protic Ionic Liquid: Evidence of Large-Angle Jumps. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3034-3038.	2.1	65

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55	Dipole Correlations in the Ionic Liquid 1- <i>N</i> -Ethyl-3- <i>N</i> -methylimidazolium Ethylsulfate and Its Binary Mixtures with Dichloromethane. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9527-9537.	1.2	64
56	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, 15356-15368.	1.2	64
57	Hydration and Ion Binding of the Osmolyte Ectoine. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15203-15211.	1.2	64
58	Effects of Nonionic Surfactant C12E5 on the Cooperative Dynamics of Water. <i>Langmuir</i> , 2006, 22, 924-932.	1.6	63
59	Structure and Dynamics of 1- <i>N</i> -Alkyl-3- <i>N</i> -Methylimidazolium Tetrafluoroborate + Acetonitrile Mixtures. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7509-7521.	1.2	61
60	Dielectric relaxation of aqueous NaF and KF solutions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 2475.	1.7	59
61	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, 9379-9388.	1.2	59
62	Dielectric relaxation of electrolyte solutions in acetonitrile. <i>Journal of Solution Chemistry</i> , 1995, 24, 1-17.	0.6	57
63	9 Dielectric relaxation in solutions. <i>Annual Reports on the Progress of Chemistry Section C</i> , 2001, 97, 349-382.	4.4	57
64	Hydration of Tetraphenylphosphonium and Tetraphenylborate Ions by Dielectric Relaxation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5147-5154.	1.2	57
65	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.	1.0	57
66	Cooperative and molecular dynamics of alcohol/water mixtures: the view of dielectric spectroscopy. <i>Journal of Molecular Liquids</i> , 2005, 117, 23-31.	2.3	56
67	Temperature Effects on Ion Association and Hydration in MgSO ₄ by Dielectric Spectroscopy. <i>ChemPhysChem</i> , 2006, 7, 2319-2330.	1.0	56
68	Structure and dynamics in protic ionic liquids: A combined optical Kerr-effect and dielectric relaxation spectroscopy study. <i>Faraday Discussions</i> , 2012, 154, 145-153.	1.6	56
69	Micelle and Solvent Relaxation in Aqueous Sodium Dodecylsulfate Solutions. <i>ChemPhysChem</i> , 2003, 4, 1065-1072.	1.0	53
70	Ion Association of Imidazolium Ionic Liquids in Acetonitrile. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1426-1435.	1.2	53
71	Ion Association and Hydration in Aqueous Solutions of Nickel(II) and Cobalt(II) Sulfate. <i>Journal of Solution Chemistry</i> , 2005, 34, 1045-1066.	0.6	52
72	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.	1.0	52

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73	Cation Hydration and Ion Pairing in Aqueous Solutions of MgCl ₂ and CaCl ₂ . Journal of Physical Chemistry B, 2019, 123, 891-900.	1.2	52
74	Effect of the Chain Length on the Inter- and Intramolecular Dynamics of Liquid Oligo(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.2	51
75	Ion association of alkaline and alkaline-earth metal perchlorates in acetonitrile. Journal of Molecular Liquids, 2006, 129, 3-12.	2.3	51
76	Are Nanoscale Ion Aggregates Present in Aqueous Solutions of Guanidinium Salts?. Journal of Physical Chemistry B, 2010, 114, 13617-13627.	1.2	50
77	Ion Association and Hydration in Aqueous Solutions of Copper(II) Sulfate from 5 to 65 Å°C by Dielectric Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 14961-14970.	1.2	48
78	Correlation between polarity parameters and dielectric properties of [Na][TOTO]â€”a sodium ionic liquid. Physical Chemistry Chemical Physics, 2010, 12, 14341.	1.3	48
79	Ultra-Broadband Dielectric and Optical Kerr-Effect Study of the Ionic Liquids Ethyl and Propylammonium Nitrate. Journal of Physical Chemistry B, 2015, 119, 8826-8841.	1.2	48
80	The influence of polarizability on the dielectric spectrum of the ionic liquid 1-ethyl-3-methylimidazolium triflate. Physical Chemistry Chemical Physics, 2011, 13, 12240.	1.3	47
81	Dynamics of methanol-tetrachloromethane mixturesâ€”a dielectric relaxation study. Journal of Molecular Liquids, 1992, 52, 131-144.	2.3	46
82	A Time Domain Reflectometer for Dielectric Relaxation Spectroscopy of Electrolyte Solutions. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 1509-1516.	0.9	46
83	Kinetic processes in the liquid phase studied by high-frequency permittivity measurements. Journal of Molecular Liquids, 1995, 63, 55-75.	2.3	45
84	Hydration of Sodium Alginate in Aqueous Solution. Macromolecules, 2014, 47, 771-776.	2.2	45
85	Molecular processes in electrolyte solutions at microwave frequencies. Pure and Applied Chemistry, 1990, 62, 2287-2296.	0.9	44
86	Dielectric Spectroscopy of Hydrogen Bond Dynamics and Microheterogeneity of Water + Dioxane Mixtures. Journal of Physical Chemistry B, 2007, 111, 5946-5955.	1.2	44
87	Possible Proton Conduction Mechanism in Pseudo-Protic Ionic Liquids: A Concept of Specific Proton Conduction. Journal of Physical Chemistry B, 2019, 123, 6244-6252.	1.2	43
88	Poly(ethylene glycol)-conjugated Phospholipids in Aqueous Micellar Solutions:Â Hydration, Static Structure, and Interparticle Interactions. Journal of Physical Chemistry B, 2007, 111, 1393-1401.	1.2	42
89	Broadband dielectric response of dichloromethane. Chemical Physics Letters, 2009, 471, 85-91.	1.2	42
90	Dielectric properties of nonaqueous electrolyte solutions. Pure and Applied Chemistry, 1986, 58, 1077-1090.	0.9	41

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91	Hydration and Ion Pairing in Aqueous Sodium Oxalate Solutions. <i>ChemPhysChem</i> , 2003, 4, 373-378.	1.0	41
92	Ionic Liquids: Not only Structurally but also Dynamically Heterogeneous. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 687-690.	7.2	41
93	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.	0.9	40
94	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.	2.3	39
95	Dielectric response and collective dynamics of acetonitrile. <i>Journal of Molecular Liquids</i> , 2015, 212, 963-968.	2.3	38
96	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.	2.3	37
97	Translational Diffusion in Mixtures of Imidazolium ILs with Polar Aprotic Molecular Solvents. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5509-5517.	1.2	37
98	Dielectric relaxation of aqueous Na ₂ CO ₃ solutions. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1933-1937.	1.3	35
99	Is ethaline a deep eutectic solvent?. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5265-5268.	1.3	34
100	Ion association and hydration in 3:2 electrolyte solutions by dielectric spectroscopy: Aluminum sulfate. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5287-5300.	1.6	32
101	Dielectric permittivity and relaxation of electrolyte solutions and their solvents. <i>Chemical Society Reviews</i> , 1992, 21, 263.	18.7	31
102	Hydrophilic and Hydrophobic Hydration of Sodium Propanoate and Sodium Butanoate in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2013, 117, 2142-2152.	1.2	31
103	Ion association and solvation of perchlorate salts in N,N-dimethylformamide and N,N-dimethylacetamide. <i>Journal of Molecular Liquids</i> , 2005, 119, 97-106.	2.3	30
104	Urea hydration from dielectric relaxation spectroscopy: old findings confirmed, new insights gained. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 2597-2607.	1.3	30
105	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.	1.0	30
106	Picosecond Dynamics and Microheterogeneity of Water + Dioxane Mixtures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2043-2046.	1.1	29
107	A Comprehensive Study of Density, Viscosity, and Electrical Conductivity of (Choline Chloride +) Tj ETQq1 1 0.784314 rgBT /Overlock <i>Engineering Data</i> , 2021, 66, 780-792.	1.0	29
108	High Frequency Dielectric Response of the Ionic Liquid N-Methyl-N-ethylpyrrolidinium Dicyanamide. <i>Australian Journal of Chemistry</i> , 2007, 60, 6.	0.5	28

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109	Relative Permittivity of Dimethylsulfoxide and <i>N,N</i> -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.	1.0	27
110	Densities, Refractive Indices, Viscosities, and Conductivities of Non-Imidazolium Ionic Liquids [Et ₃ S][TFSI], [Et ₂ MeS][TFSI], [BuPy][TFSI], [N ₈₈₈₁][TFA], and [P ₁₄][DCA]. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 2549-2561.	1.0	27
111	Dielectric Relaxation Spectroscopy of Aliphatic Ionene Bromides and Fluorides in Water: The Role of the Polyion's Charge Density and the Nature of the Counterions. <i>Macromolecules</i> , 2009, 42, 4337-4342.	2.2	25
112	Spectroscopic studies of solute-solute and solute-solvent interactions in solutions containing <i>N,N</i> -dimethylformamide. <i>Faraday Discussions of the Chemical Society</i> , 1988, 85, 211-224.	2.2	24
113	Hydration and ion association of aqueous choline chloride and chlorocholine chloride. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10970-10980.	1.3	24
114	Dielectric Relaxation of Concentrated Alkaline Aluminate Solutions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6527-6532.	1.1	23
115	Effects of hydration on the thermodynamic properties of aqueous ethylene glycol ether solutions. <i>Journal of Chemical Thermodynamics</i> , 2005, 37, 513-522.	1.0	23
116	Features of ion hydration and association in aqueous rubidium fluoride solutions at ambient conditions. <i>Journal of Molecular Liquids</i> , 2011, 159, 9-17.	2.3	23
117	Evidence for cooperative Na ⁺ and Cl ⁻ binding by strongly hydrated <i>l</i> -proline. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20474-20483.	1.3	23
118	Hydration and Counterion Binding of [C ₁₂ MIM] Micelles. <i>Langmuir</i> , 2017, 33, 9844-9856.	1.6	23
119	Hydration and ion association of La ³⁺ and Eu ³⁺ salts in aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8812-8821.	1.3	23
120	Leitfähigkeit und dielektrische Eigenschaften wässriger CdSO ₄ -Lösungen. <i>Zeitschrift Fur Physikalische Chemie</i> , 1984, 139, 23-37.	1.4	22
121	Automated apparatus for the rapid determination of liquid-liquid and solid-liquid phase transitions. <i>Fluid Phase Equilibria</i> , 2004, 216, 175-182.	1.4	22
122	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.	1.2	22
123	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, 615-622.	1.2	22
124	Water-separated ion pairs cause the slow dielectric mode of magnesium sulfate solutions. <i>Journal of Chemical Physics</i> , 2018, 148, 222812.	1.2	22
125	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.	1.3	22
126	Dielectric Relaxation Spectroscopy Shows a Springly Hydrated Interface and Low Counterion Mobility in Triflate Micelles. <i>Langmuir</i> , 2013, 29, 10037-10046.	1.6	21

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127	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> , 2017, 19, 219-230.	1.3	21
128	Dielectric relaxation spectroscopy of ion-solvent interactions in formamide and N-methylformamide. <i>Journal of Molecular Liquids</i> , 2006, 127, 14-20.	2.3	20
129	Dynamics of water confined in self-assembled monoglyceride-water-oil phases. <i>Soft Matter</i> , 2011, 7, 1409-1417.	1.2	20
130	Properties of Sodium Tetrafluoroborate Solutions in 1-Butyl-3-methylimidazolium Tetrafluoroborate Ionic Liquid. <i>Journal of Chemical & Engineering Data</i> , 2012, 57, 3019-3025.	1.0	20
131	Insight into the Hydration of Cationic Surfactants: A Thermodynamic and Dielectric Study of Functionalized Quaternary Ammonium Chlorides. <i>Langmuir</i> , 2019, 35, 3759-3772.	1.6	20
132	Dielectric response and transport properties of alkylammonium formate ionic liquids. <i>Journal of Chemical Physics</i> , 2018, 148, 193836.	1.2	19
133	Microglobule formation and a microscopic order parameter monitoring the phase transition of aqueous poly(N-isopropylacrylamide) solution. <i>Physical Review Materials</i> , 2018, 2, .	0.9	19
134	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, .	1.4	18
135	Modelling fast mode dielectric relaxation of counterions in aqueous solutions of ionene bromides and fluorides. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10053.	1.3	17
136	Systematic Variations of Ion Hydration in Aqueous Alkali Metal Fluoride Solutions. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10868-10876.	1.2	17
137	Molar Volumes and Heat Capacities of Electrolytes and Ions in Nonaqueous Solvents: 1. Formamide. <i>Journal of Solution Chemistry</i> , 1998, 27, 1067-1096.	0.6	16
138	Dielectric Spectroscopy of Cesium Fluoride in Methanol. <i>Journal of Solution Chemistry</i> , 2002, 31, 521-535.	0.6	16
139	Do H-bonds explain strong ion aggregation in ethylammonium nitrate + acetonitrile mixtures?. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 18445.	1.3	16
140	La[Fe(CN) ₆] ion pairing in aqueous solution. A dielectric relaxation study. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 105-109.	1.3	15
141	Percolating Microemulsions of Nonionic Surfactants Probed by Dielectric Spectroscopy. <i>ChemPhysChem</i> , 2005, 6, 1051-1055.	1.0	15
142	Scandium Sulfate Complexation in Aqueous Solution by Dielectric Relaxation Spectroscopy. <i>Inorganic Chemistry</i> , 2008, 47, 8619-8628.	1.9	15
143	Dynamic Solvent Effects in Electrochemical Kinetics: Indications for a Switch of the Relevant Solvent Mode. <i>Journal of Physical Chemistry B</i> , 2010, 114, 311-320.	1.2	15
144	Is surface layering of aqueous alkali halides determined by ion pairing in the bulk solution?. <i>Journal of Chemical Physics</i> , 2014, 141, 18C509.	1.2	15

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