

Margarida F Costa Gomes

List of Publications by Year in descending order

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136
papers

8,451
citations

38720

50
h-index

49868

87
g-index

142
all docs

142
docs citations

142
times ranked

6439
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Solutes in Ionic Liquids: A Structural Perspective. <i>Accounts of Chemical Research</i> , 2007, 40, 1087-1096.	7.6	450
2	Nonpolar, Polar, and Associating Solutes in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16816-16818.	1.2	446
3	Liquids with permanent porosity. <i>Nature</i> , 2015, 527, 216-220.	13.7	402
4	Solubility of carbon dioxide, ethane, methane, oxygen, nitrogen, hydrogen, argon, and carbon monoxide in 1-butyl-3-methylimidazolium tetrafluoroborate between temperatures 283K and 343K and at pressures close to atmospheric. <i>Journal of Chemical Thermodynamics</i> , 2006, 38, 490-502.	1.0	382
5	Low-pressure solubilities and thermodynamics of solvation of eight gases in 1-butyl-3-methylimidazolium hexafluorophosphate. <i>Fluid Phase Equilibria</i> , 2006, 240, 87-95.	1.4	276
6	Prediction of Ionic Liquid Properties. I. Volumetric Properties as a Function of Temperature at 0.1 MPa. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 716-726.	1.0	233
7	Understanding the role of co-solvents in the dissolution of cellulose in ionic liquids. <i>Green Chemistry</i> , 2014, 16, 2528.	4.6	231
8	Influence of the Cation on the Solubility of CO ₂ and H ₂ in Ionic Liquids Based on the Bis(trifluoromethylsulfonyl)imide Anion. <i>Journal of Solution Chemistry</i> , 2007, 36, 967-979.	0.6	185
9	Solubilities of Oxygen and Carbon Dioxide in Butyl Methyl Imidazolium Tetrafluoroborate as a Function of Temperature and at Pressures Close to Atmospheric Pressure. <i>Journal of Chemical & Engineering Data</i> , 2003, 48, 480-485.	1.0	183
10	Effect of Fluorination and Size of the Alkyl Side-Chain on the Solubility of Carbon Dioxide in 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3608-3617.	1.2	159
11	Three commentaries on the nano-segregated structure of ionic liquids. <i>Computational and Theoretical Chemistry</i> , 2010, 946, 70-76.	1.5	156
12	Polarity, Viscosity, and Ionic Conductivity of Liquid Mixtures Containing [C ₄ C ₁ im][Ntf ₂] and a Molecular Component. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6088-6099.	1.2	154
13	Molecular Force Field for Ionic Liquids V: Hydroxyethylimidazolium, Dimethoxy-2- Methylimidazolium, and Fluoroalkylimidazolium Cations and Bis(Fluorosulfonyl)Amide, Perfluoroalkanesulfonylamide, and Fluoroalkylfluorophosphate Anions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3592-3600.	1.2	146
14	Self-assembled nanostructures in ionic liquids facilitate charge storage at electrified interfaces. <i>Nature Materials</i> , 2019, 18, 1350-1357.	13.3	144
15	Prediction of Ionic Liquid Properties. II. Volumetric Properties as a Function of Temperature and Pressure. <i>Journal of Chemical & Engineering Data</i> , 2008, 53, 2133-2143.	1.0	139
16	Porous Ionic Liquids or Liquid Metalâ€“Organic Frameworks?. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11909-11912.	7.2	124
17	Low-Pressure Solubility and Thermodynamics of Solvation of Carbon Dioxide, Ethane, and Hydrogen in 1-Hexyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide between Temperatures of 283 K and 343 K. <i>Journal of Chemical & Engineering Data</i> , 2007, 52, 472-475.	1.0	122
18	A Molecular Dynamics Study of Glucose Solvation in the Ionic Liquid 1,3-Dimethylimidazolium Chloride. <i>ChemPhysChem</i> , 2006, 7, 2279-2281.	1.0	115

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19	Effect of Water on the Carbon Dioxide Absorption by 1-Alkyl-3-methylimidazolium Acetate Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14416-14425.	1.2	111
20	Transferable, Polarizable Force Field for Ionic Liquids. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 5858-5871.	2.3	108
21	Interaction between the π -System of Toluene and the Imidazolium Ring of Ionic Liquids: A Combined NMR and Molecular Simulation Study. <i>Journal of Physical Chemistry B</i> , 2009, 113, 170-177.	1.2	97
22	Absorption of Carbon Dioxide, Nitrous Oxide, Ethane and Nitrogen by 1-Alkyl-3-methylimidazolium (C _n mim, n = 2,4,6) Tris(pentafluoroethyl)trifluorophosphate Ionic Liquids (eFAP). <i>Journal of Physical Chemistry B</i> , 2012, 116, 7728-7738.	1.2	95
23	Systematic Comparison of the Structural and Dynamic Properties of Commonly Used Water Models for Molecular Dynamics Simulations. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 4521-4536.	2.5	94
24	Molecular Simulation Study of Interactions of Carbon Dioxide and Water with Ionic Liquids. <i>ChemPhysChem</i> , 2004, 5, 1049-1052.	1.0	92
25	Assessing the Dispersive and Electrostatic Components of the Cohesive Energy of Ionic Liquids Using Molecular Dynamics Simulations and Molar Refraction Data. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5831-5834.	1.2	89
26	On the Role of the Dipole and Quadrupole Moments of Aromatic Compounds in the Solvation by Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9894-9900.	1.2	86
27	Mixing Enthalpy for Binary Mixtures Containing Ionic Liquids. <i>Chemical Reviews</i> , 2016, 116, 6075-6106.	23.0	85
28	Effect of alkyl chain length and hydroxyl group functionalization on the surface properties of imidazolium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13518.	1.3	81
29	Solubility of carbon dioxide, nitrous oxide, ethane, and nitrogen in 1-butyl-1-methylpyrrolidinium and trihexyl(tetradecyl)phosphonium tris(pentafluoroethyl)trifluorophosphate (eFAP) ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2013, 59, 65-71.	1.0	79
30	Solubility of oxygen in n-hexane and in n-perfluorohexane. Experimental determination and prediction by molecular simulation. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 543-549.	1.3	76
31	Solubility of carbon dioxide and ethane in three ionic liquids based on the bis{(trifluoromethyl)sulfonyl}imide anion. <i>Fluid Phase Equilibria</i> , 2007, 257, 27-34.	1.4	74
32	Selectivity enhancement in the aqueous acid-catalyzed conversion of glucose to 5-hydroxymethylfurfural induced by choline chloride. <i>Green Chemistry</i> , 2013, 15, 3205.	4.6	74
33	1-Alkyl-3-methylimidazolium alkanesulfonate ionic liquids, [C _n H _{2n+1} mim][C _k H _{2k+1} SO ₃]: synthesis and physicochemical properties. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8939.	1.3	70
34	Interactions of Carbon Dioxide with Liquid Fluorocarbons. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14020-14024.	1.2	67
35	Influence of oxygen functionalities on the environmental impact of imidazolium based ionic liquids. <i>Journal of Hazardous Materials</i> , 2011, 198, 165-174.	6.5	66
36	Deep eutectic solvents as green absorbents of volatile organic pollutants. <i>Environmental Chemistry Letters</i> , 2017, 15, 747-753.	8.3	66

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37	Interactions and structure of ionic liquids on graphene and carbon nanotubes surfaces. RSC Advances, 2014, 4, 18017-18024.	1.7	65
38	Liquid-liquid miscibility and volumetric properties of aqueous solutions of ionic liquids as a function of temperature. Journal of Chemical Thermodynamics, 2009, 41, 1206-1214.	1.0	63
39	High-Performance Porous Ionic Liquids for Low-Pressure CO ₂ Capture**. Angewandte Chemie - International Edition, 2021, 60, 12876-12882.	7.2	63
40	Effect of Acetonitrile on the Solubility of Carbon Dioxide in 1-Ethyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)amide. Industrial & Engineering Chemistry Research, 2006, 45, 8180-8188.	1.8	61
41	Thermophysical properties, low pressure solubilities and thermodynamics of solvation of carbon dioxide and hydrogen in two ionic liquids based on the alkylsulfate anion. Green Chemistry, 2008, 10, 944.	4.6	61
42	When can ionic liquids be considered readily biodegradable? Biodegradation pathways of pyridinium, pyrrolidinium and ammonium-based ionic liquids. Green Chemistry, 2015, 17, 1479-1491.	4.6	61
43	Olefin hydrogenation by ruthenium nanoparticles in ionic liquid media: Does size matter?. Journal of Catalysis, 2010, 275, 99-107.	3.1	60
44	Absorption of carbon dioxide by ionic liquids with carboxylate anions. International Journal of Greenhouse Gas Control, 2013, 17, 78-88.	2.3	57
45	Extension of the CL&Pol Polarizable Force Field to Electrolytes, Protic Ionic Liquids, and Deep Eutectic Solvents. Journal of Chemical Theory and Computation, 2021, 17, 1606-1617.	2.3	56
46	Solubility of dioxygen in seven fluorinated liquids. Journal of Fluorine Chemistry, 2004, 125, 1325-1329.	0.9	54
47	Thermodynamics and Micro Heterogeneity of Ionic Liquids. Topics in Current Chemistry, 2009, 290, 161-183.	4.0	53
48	The Presence of Functional Groups Key for Biodegradation in Ionic Liquids: Effect on Gas Solubility. ChemSusChem, 2010, 3, 377-385.	3.6	53
49	Influence of an Oxygen Functionalization on the Physicochemical Properties of Ionic Liquids: Density, Viscosity, and Carbon Dioxide Solubility as a Function of Temperature. Journal of Chemical & Engineering Data, 2011, 56, 4194-4202.	1.0	53
50	Interaction Energies of Ionic Liquids with Metallic Nanoparticles: Solvation and Stabilization Effects. Journal of Physical Chemistry C, 2013, 117, 3537-3547.	1.5	53
51	Effect of Water on Deep Eutectic Solvent/ β -Cyclodextrin Systems. ACS Sustainable Chemistry and Engineering, 2019, 7, 7277-7285.	3.2	52
52	Influence of water on the carbon dioxide absorption by 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide. Fluid Phase Equilibria, 2010, 294, 98-104.	1.4	49
53	Diffusion Coefficients of 1-Alkyl-3-methylimidazolium Ionic Liquids in Water, Methanol, and Acetonitrile at Infinite Dilution. Journal of Chemical & Engineering Data, 2009, 54, 2389-2394.	1.0	48
54	Interactions of Fluorinated Gases with Ionic Liquids: Solubility of CF ₄ , C ₂ F ₆ , and C ₃ F ₈ in Trihexyltetradecylphosphonium Bis(trifluoromethylsulfonyl)amide. Journal of Physical Chemistry B, 2008, 112, 12394-12400.	1.2	47

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55	Thermodynamics of cellulose dissolution in an imidazolium acetate ionic liquid. <i>Chemical Communications</i> , 2015, 51, 4485-4487.	2.2	47
56	Imidazolium-based ionic liquids with cyano groups for the selective absorption of ethane and ethylene. <i>Chemical Engineering Journal</i> , 2015, 280, 755-762.	6.6	47
57	Ionic Liquids Can Enable the Recycling of Fluorinated Greenhouse Gases. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16900-16906.	3.2	47
58	Solubility of alkanes, alkanols and their fluorinated counterparts in tetraalkylphosphonium ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9685.	1.3	44
59	Influence of Fluorination on the Solubilities of Carbon Dioxide, Ethane, and Nitrogen in 1- <i>n</i> -Fluoro-alkyl-3-methylimidazolium Bis(<i>n</i> -fluoroalkylsulfonyl)amide Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2017, 121, 426-436.	1.2	44
60	Calorimetric and Volumetric Study on Binary Mixtures 2,2,2-Trifluoroethanol + (1-Butyl-3-methylimidazolium Tetrafluoroborate or 1-Ethyl-3-methylimidazolium Tetrafluoroborate). <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5504-5512.	1.0	43
61	Ruthenium nanoparticles in ionic liquids: structural and stability effects of polar solutes. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13527.	1.3	42
62	First Evidence of Cyclodextrin Inclusion Complexes in a Deep Eutectic Solvent. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 6345-6351.	3.2	41
63	Predicting the solubility of xenon in <i>n</i> -hexane and <i>n</i> -perfluorohexane: a simulation and theoretical study. <i>Molecular Physics</i> , 2002, 100, 2547-2553.	0.8	40
64	Gas-liquid interactions in solution. <i>Pure and Applied Chemistry</i> , 2005, 77, 653-665.	0.9	40
65	Interactions between water and 1-butyl-1-methylpyrrolidinium ionic liquids. <i>Journal of Chemical Physics</i> , 2015, 143, 064503.	1.2	40
66	Solvation of a Cellulose Microfibril in Imidazolium Acetate Ionic Liquids: Effect of a Cosolvent. <i>Journal of Physical Chemistry B</i> , 2014, 118, 141211094045002.	1.2	39
67	Using ethane and butane as probes to the molecular structure of 1-alkyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]imide ionic liquids. <i>Faraday Discussions</i> , 2012, 154, 41-52.	1.6	38
68	Glass transition of ionic liquids under high pressure. <i>Journal of Chemical Physics</i> , 2014, 140, 244514.	1.2	37
69	Ionic liquids at the surface of graphite: Wettability and structure. <i>Journal of Chemical Physics</i> , 2018, 148, 193840.	1.2	37
70	Connecting chloride solvation with hydration in deep eutectic systems. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 107-111.	1.3	37
71	Characteristics of aggregation in aqueous solutions of dialkylpyrrolidinium bromides. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 606-616.	5.0	36
72	Effect of Unsaturation on the Absorption of Ethane and Ethylene in Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7416-7425.	1.2	36

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73	Dispersion and Stabilization of Exfoliated Graphene in Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019, 7, 223.	1.8	35
74	Solubility isotope effects in aqueous solutions of methane. <i>Journal of Chemical Physics</i> , 2002, 116, 10816-10824.	1.2	34
75	Phase Equilibria in Ionic Liquid~Aromatic Compound Mixtures, Including Benzene Fluorination Effects. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7631-7636.	1.2	33
76	Porous Ionic Liquids or Liquid Metal~Organic Frameworks?. <i>Angewandte Chemie</i> , 2018, 130, 12085-12088.	1.6	32
77	Porous Ionic Liquids: Structure, Stability, and Gas Absorption Mechanisms. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001982.	1.9	32
78	Perfluoroalkanes in Water:~ Experimental Henry's Law Coefficients for Hexafluoroethane and Computer Simulations for Tetrafluoromethane and Hexafluoroethane. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8403-8409.	1.2	31
79	Solubility of oxygen, carbon dioxide and water in semifluorinated alkanes and in perfluorooctylbromide by molecular simulation. <i>Journal of Fluorine Chemistry</i> , 2004, 125, 409-413.	0.9	31
80	How do Physical~Chemical Parameters Influence the Catalytic Hydrogenation of 1,3-Cyclohexadiene in Ionic Liquids?. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8156-8165.	1.2	31
81	Volumetric properties and enthalpies of solution of alcohols $C_kH_{2k+1}OH$ ($k=1, 2, 6$) in 1-methyl-3-alkylimidazolium bis(trifluoromethylsulfonyl)imide $\{[C_1C_nIm][NTf_2] n=2, 4, 6, 8, 10\}$ ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 1708-1718.	1.0	31
82	Influence of Ester Functional Groups on the Liquid-Phase Structure and Solvation Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 3942-3948.	1.2	30
83	New generation of supramolecular mixtures: Characterization and solubilization studies. <i>International Journal of Pharmaceutics</i> , 2020, 584, 119443.	2.6	30
84	High-Pressure Densities of 2,2,2-Trifluoroethanol + Ionic Liquid Mixtures Useful for Possible Applications in Absorption Cycles. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 10791-10802.	1.8	29
85	Vapour pressures, aqueous solubility, Henry's law constants and air/water partition coefficients of 1,8-dichlorooctane and 1,8-dibromooctane. <i>Chemosphere</i> , 2006, 64, 1829-1836.	4.2	28
86	Tailoring the properties of acetate-based ionic liquids using the tricyanomethanide anion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23285-23295.	1.3	28
87	Process Evaluation of Fluorinated Ionic Liquids as F-Gas Absorbents. <i>Environmental Science & Technology</i> , 2020, 54, 12784-12794.	4.6	28
88	Low pressure solubility and thermodynamics of solvation of oxygen, carbon dioxide, and carbon monoxide in fluorinated liquids. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 847-854.	1.0	27
89	Relevant parameters for assessing the environmental impact of some pyridinium, ammonium and pyrrolidinium based ionic liquids. <i>Chemosphere</i> , 2012, 89, 327-333.	4.2	27
90	Can the tricyanomethanide anion improve CO_2 absorption by acetate-based ionic liquids?. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12431-12440.	1.3	26

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91	Do Cyclodextrins Encapsulate Volatiles in Deep Eutectic Systems?. ACS Sustainable Chemistry and Engineering, 2019, 7, 17397-17405.	3.2	26
92	Aqueous solubility, Henry's law constants and air/water partition coefficients of n-octane and two halogenated octanes. Chemosphere, 2004, 57, 1543-1551.	4.2	25
93	Deep eutectic solvents as absorbents for VOC and VOC mixtures in static and dynamic processes. Chemical Engineering Journal, 2022, 448, 137619.	6.6	25
94	Phase Behaviour, Interactions, and Structural Studies of (Amines+Ionic Liquids) Binary Mixtures. ChemPhysChem, 2012, 13, 1825-1835.	1.0	24
95	Preparation of microfibers from wood/ionic liquid solutions. Carbohydrate Polymers, 2013, 92, 214-217.	5.1	24
96	Improvement of carbon dioxide absorption by mixing poly(ethylene glycol) dimethyl ether with ammonium-based ionic liquids. Separation and Purification Technology, 2018, 196, 10-19.	3.9	24
97	Determination of Henry's law constants for aqueous solutions of tetradeuteriomethane between 285 and 325 K and calculation of the H/D isotope effect. Physical Chemistry Chemical Physics, 2001, 3, 1047-1052.	1.3	23
98	Direct measurement of the heat of solution and solubility of carbon dioxide in 1-hexyl-3-methylimidazolium bis[trifluoromethylsulfonyl]amide and 1-octyl-3-methylimidazolium bis[trifluoromethylsulfonyl]amide. International Journal of Greenhouse Gas Control, 2012, 10, 329-340.	2.3	23
99	Integrated, one-pot carbon capture and utilisation using porous ionic liquids. Chemical Communications, 2021, 57, 7922-7925.	2.2	23
100	Design of Ionic Liquids for Fluorinated Gas Absorption: COSMO-RS Selection and Solubility Experiments. Environmental Science & Technology, 2022, 56, 5898-5909.	4.6	23
101	Atmosphere/water partition of halocyclohexanes from vapour pressure and solubility data. Atmospheric Environment, 2008, 42, 4724-4734.	1.9	21
102	Ligand effect on the catalytic activity of ruthenium nanoparticles in ionic liquids. Dalton Transactions, 2012, 41, 13919.	1.6	19
103	Influence of Ionic Association, Transport Properties, and Solvation on the Catalytic Hydrogenation of 1,3-Cyclohexadiene in Ionic Liquids. Journal of Physical Chemistry B, 2011, 115, 12150-12159.	1.2	18
104	Glycine in 1-Butyl-3-Methylimidazolium Acetate and Trifluoroacetate Ionic Liquids: Effect of Fluorination and Hydrogen Bonding. ChemPhysChem, 2012, 13, 1753-1763.	1.0	18
105	Using hydrogenated and perfluorinated gases to probe the interactions and structure of fluorinated ionic liquids. Physical Chemistry Chemical Physics, 2019, 21, 8865-8873.	1.3	18
106	Solubility of xenon in n-hexane between 257 and 333 K. Fluid Phase Equilibria, 2002, 193, 41-51.	1.4	17
107	Pressure effect on vibrational frequency and dephasing of 1-alkyl-3-methylimidazolium hexafluorophosphate ionic liquids. Journal of Chemical Physics, 2013, 139, 054510.	1.2	15
108	Solubility of n-butane and 2-methylpropane (isobutane) in 1-alkyl-3-methylimidazolium-based ionic liquids with linear and branched alkyl side-chains. Physical Chemistry Chemical Physics, 2015, 17, 30328-30342.	1.3	14

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109	Gaseous Hydrocarbon Separations Using Functionalized Ionic Liquids. <i>Oil and Gas Science and Technology</i> , 2016, 71, 23.	1.4	14
110	Solvation of Halogens in Fluorous Phases. Experimental and Simulation Data for F ₂ , Cl ₂ , and Br ₂ in Several Fluorinated Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6653-6664.	1.2	13
111	How Does the Addition of a Third Ion Affect the Molecular Interactions and the Thermodynamic Properties of Acetate-Based Ionic Liquids?. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9725-9736.	1.2	13
112	Molecular dynamics simulations of polyethers and a quaternary ammonium ionic liquid as CO ₂ absorbers. <i>Journal of Chemical Physics</i> , 2018, 148, 134908.	1.2	13
113	On the Regular Behavior of a Binary Mixture of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6579-6587.	1.2	13
114	Sodium diffusion in ionic liquid-based electrolytes for Na-ion batteries: the effect of polarizable force fields. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20114-20122.	1.3	13
115	Solvation of C ₆₀ Fullerene and C ₆₀ F ₄₈ Fluorinated Fullerene in Molecular and Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19396-19408.	1.5	11
116	Polycyclic aromatic hydrocarbons as model solutes for carbon nanomaterials in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27694-27703.	1.3	11
117	Effect of Nitrile-Functionalization of Imidazolium-Based Ionic Liquids on Their Transport Properties, Both Pure and Mixed with Lithium Salts. <i>Journal of Solution Chemistry</i> , 2015, 44, 495-510.	0.6	10
118	Tuning the solvation of indigo in aqueous deep eutectics. <i>Journal of Chemical Physics</i> , 2021, 154, 224502.	1.2	10
119	Isobutane as a probe of the structure of 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2015, 89, 98-103.	1.0	9
120	Preliminary study on suitability of ionic liquids as potential passive-sampling media of polyaromatic-hydrocarbon (PAH) analyses in water. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 3531-3536.	1.9	8
121	Structure and dynamics of ionic liquids: general discussion. <i>Faraday Discussions</i> , 2018, 206, 291-337.	1.6	8
122	Phase behaviour and thermodynamics: general discussion. <i>Faraday Discussions</i> , 2017, 206, 113-139.	1.6	8
123	Improved carbon dioxide absorption in double-charged ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23130-23140.	1.3	8
124	Effect of bromine substitution on the solubility of gases in hydrocarbons and fluorocarbons. <i>Fluid Phase Equilibria</i> , 2007, 251, 128-136.	1.4	7
125	Ionic Liquids: Promising Media for Gas Separations. <i>ACS Symposium Series</i> , 2010, , 223-237.	0.5	7
126	Ion pair free energy surface as a probe of ionic liquid structure. <i>Journal of Chemical Physics</i> , 2020, 152, 014103.	1.2	7

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127	Mixing divalent ionic liquids: effects of charge and side-chains. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4624-4635.	1.3	7
128	High-Performance Porous Ionic Liquids for Low-Pressure CO ₂ Capture**. <i>Angewandte Chemie</i> , 2021, 133, 12986-12992.	1.6	6
129	Screening Ionic Solvents for Enhancing the Solubility of Water-Insoluble Natural Dyes. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 8555-8564.	1.8	5
130	Interactions of Gases with Ionic Liquids: Experimental Approach. <i>ACS Symposium Series</i> , 2005, , 207-218.	0.5	4
131	Enhancement of the solubility of organic dyes in aqueous ionic solvents doped with surfactants. <i>Journal of Molecular Liquids</i> , 2022, 357, 118958.	2.3	4
132	Using Thermodynamics to Assess the Molecular Interactions of Tetrabutylphosphonium Carboxylate-Water Mixtures. <i>Australian Journal of Chemistry</i> , 2019, 72, 144.	0.5	3
133	Probing the Reorganization of Ionic Liquids' Structure Induced by CO ₂ Sorption. <i>ChemPhysChem</i> , 2020, 21, 1230-1234.	1.0	3
134	Influence of Ionic Liquids on the Morphology of Corn Flour/Polyester Mixtures. <i>Starch/Staerke</i> , 2018, 70, 1700233.	1.1	2
135	Experimental Study of the Interactions of Fullerene with Ionic Liquids. <i>ACS Symposium Series</i> , 2017, , 273-281.	0.5	1
136	Ionic liquids at interfaces: general discussion. <i>Faraday Discussions</i> , 2018, 206, 549-586.	1.6	0