

Aleksandar S Tot

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67
papers

726
citations

15
h-index

22
g-index

70
ext. papers

935
ext. citations

4.1
avg, IF

4.24
L-index

#	Paper	IF	Citations
67	Density, electrical conductivity, viscosity and excess properties of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide+propylene carbonate binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2014 , 68, 98-108	2.9	86
66	Density, excess properties, electrical conductivity and viscosity of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide+ γ -butyrolactone binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2014 , 76, 161-171	2.9	56
65	Influence of the N-3 alkyl chain length on improving inhibition properties of imidazolium-based ionic liquids on copper corrosion. <i>Journal of Molecular Liquids</i> , 2018 , 264, 526-533	6	38
64	Ideal and non-ideal behaviour of {1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide + γ -butyrolactone} binary mixtures. <i>Journal of Chemical Thermodynamics</i> , 2015 , 81, 66-76	2.9	29
63	Structuring of water in the new generation ionic liquid [Comparative experimental and theoretical study. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 164-171	2.9	26
62	Liquid-Liquid Equilibria in Aqueous 1-Alkyl-3-methylimidazolium- and 1-Butyl-3-ethylimidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 549-555	2.8	24
61	Structure making properties of 1-(2-hydroxyethyl)-3-methylimidazolium chloride ionic liquid. <i>Journal of Chemical Thermodynamics</i> , 2016 , 95, 174-179	2.9	20
60	Self-assembling, reactivity and molecular dynamics of fullerene nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 135-144	3.6	19
59	Does the variation of the alkyl chain length on N1 and N3 of imidazole ring affect physicochemical features of ionic liquids in the same way?. <i>Journal of Chemical Thermodynamics</i> , 2016 , 93, 52-59	2.9	19
58	Volumetric Properties of Binary Mixtures of 1-Butyl-3-Methylimidazolium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 3372-3379	2.8	19
57	New gold pincer-type complexes: synthesis, characterization, DNA binding studies and cytotoxicity. <i>Dalton Transactions</i> , 2018 , 47, 13696-13712	4.3	19
56	Simultaneous extraction of pesticides of different polarity applying aqueous biphasic systems based on ionic liquids. <i>Journal of Molecular Liquids</i> , 2017 , 243, 646-653	6	18
55	Determination of reactive properties of 1-butyl-3-methylimidazolium taurate ionic liquid employing DFT calculations. <i>Journal of Molecular Liquids</i> , 2016 , 222, 796-803	6	18
54	Aqueous biphasic system formation using 1-alkyl-3-ethylimidazolium bromide ionic liquids as new extractants. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 40, 152-160	6.3	16
53	Interactions in aqueous solutions of imidazolium chloride ionic liquids [Cnmim][Cl] (n = 0, 1, 2, 4, 6, 8) from volumetric properties, viscosity B-coefficients and molecular dynamics simulations. <i>Journal of Molecular Liquids</i> , 2018 , 254, 267-271	6	15
52	Kosmotropism of newly synthesized 1-butyl-3-methylimidazolium taurate ionic liquid: Experimental and computational study. <i>Journal of Chemical Thermodynamics</i> , 2016 , 94, 85-95	2.9	15
51	Physicochemical and structural properties of lidocaine-based ionic liquids with anti-inflammatory anions.. <i>RSC Advances</i> , 2020 , 10, 14089-14098	3.7	15

50	Newly Synthesized Heteronuclear Ruthenium(II)/Ferrocene Complexes Suppress the Growth of Mammary Carcinoma in 4T1-Treated BALB/c Mice by Promoting Activation of Antitumor Immunity. <i>Organometallics</i> , 2018 , 37, 4250-4266	3.8	15
49	Synthesis, characterization, anticancer evaluation and mechanisms of cytotoxic activity of novel 3-hydroxy-3-pyrrolin-2-ones bearing thenoyl fragment: DNA, BSA interactions and molecular docking study. <i>Bioorganic Chemistry</i> , 2019 , 88, 102954	5.1	12
48	DFT study of 1-butyl-3-methylimidazolium salicylate: a third-generation ionic liquid. <i>Journal of Molecular Modeling</i> , 2015 , 21, 246	2	12
47	Volumetric Properties of Binary Mixtures of 1-Butyl-1-Methylpyrrolidinium Tris(pentafluoroethyl)trifluorophosphate with N-Methylformamide, N-Ethylformamide, N,N-Dimethylformamide, N,N-Dibutylformamide, and N,N-Dimethylacetamide from (293.15 to 323.15) K. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 1225-1231	2.8	12
46	New sample preparation method based on task-specific ionic liquids for extraction and determination of copper in urine and wastewater. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 155-166	4.6	12
45	Evaluation of the impact of different alkyl length and type of substituent in imidazolium ionic liquids on cucumber germination, growth and oxidative stress. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 35594-35601	5.1	11
44	Synthesis, Anticancer Evaluation and Synergistic Effects with cisplatin of Novel Palladium Complexes: DNA, BSA Interactions and Molecular Docking Study. <i>Medicinal Chemistry</i> , 2020 , 16, 78-92	1.8	10
43	Protic ionic liquids as adjuvants to enhance extraction and separation performance of diverse polarity compounds in PEG-salt based aqueous biphasic system. <i>Journal of Molecular Liquids</i> , 2020 , 303, 112484	6	9
42	Thermodynamic and computational study of isomerism effect at micellization of imidazolium based surface-active ionic liquids: Counterion structure. <i>Journal of Molecular Liquids</i> , 2020 , 301, 112419	6	9
41	Correlation between lipophilicity of newly synthesized ionic liquids and selected genus growth rate.. <i>RSC Advances</i> , 2019 , 9, 19189-19196	3.7	8
40	Improved single-step extraction performance of aqueous biphasic systems using novel symmetric ionic liquids for the decolorisation of toxic dye effluents. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 76, 500-507	6.3	8
39	Biological evaluation of selected 3,4-dihydro-2(1H)-quinoxalinones and 3,4-dihydro-1,4-benzoxazin-2-ones: Molecular docking study. <i>Archiv Der Pharmazie</i> , 2018 , 351, e1700308	4.3	8
38	Thermophysical and electrochemical properties of 1-alkyl-3-(butenyl)imidazolium bromide ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2019 , 139, 105871	2.9	8
37	Aggregation properties and toxicity of newly synthesized thiazolium based surfactants □ Thermodynamic and computational study. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 599-612	2.9	8
36	The organisation of water around creatine and creatinine molecules. <i>Journal of Chemical Thermodynamics</i> , 2019 , 128, 103-109	2.9	7
35	Discovery of the Biginelli hybrids as novel caspase-9 activators in apoptotic machines: Lipophilicity, molecular docking study, influence on angiogenesis gene and miR-21 expression levels. <i>Bioorganic Chemistry</i> , 2019 , 86, 569-582	5.1	7
34	Influence of oxygen functionalization on physico-chemical properties of imidazolium based ionic liquids □ Experimental and computational study. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 1598-1611	5.9	7
33	Is choline kosmotrope or chaotrope?. <i>Journal of Chemical Thermodynamics</i> , 2018 , 124, 65-73	2.9	7

32	Uncommon structure making/breaking behaviour of cholinium taurate in water. <i>Journal of Chemical Thermodynamics</i> , 2017 , 107, 58-64	2.9	6
31	A comparative study on the interactions of [bmim][NTf2] ionic liquid with selected four- to seven-membered-ring lactones. <i>Journal of Chemical Thermodynamics</i> , 2017 , 107, 170-181	2.9	6
30	Synthesis and Thermophysical Characterization of New Biologically Friendly Agmatine-Based Ionic Liquids and Salts by Experimental and Computational Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10773-10783	8.3	6
29	The effect of polar head group of dodecyl surfactants on the growth of wheat and cucumber. <i>Chemosphere</i> , 2020 , 254, 126918	8.4	6
28	Anticancer and antimicrobial properties of imidazolium based ionic liquids with salicylate anion. <i>Journal of the Serbian Chemical Society</i> , 2020 , 85, 291-303	0.9	6
27	Interaction of D-panthenol with water molecules [Experimental and computational study. <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 34-42	2.9	6
26	Experimental and computational study of guanidinoacetic acid self-aggregation in aqueous solution. <i>Food Chemistry</i> , 2017 , 237, 53-57	8.5	5
25	Further insight into the influence of functionalization and positional isomerism of pyridinium ionic liquids on the aqueous two-phase system equilibria. <i>Fluid Phase Equilibria</i> , 2020 , 512, 112520	2.5	5
24	Computational modeling of ionic liquids density by multivariate chemometrics. <i>Journal of Molecular Liquids</i> , 2016 , 214, 276-282	6	5
23	Towards edible ionic liquids - cholinium taurate. <i>Journal of the Serbian Chemical Society</i> , 2019 , 84, 991-1004	4	5
22	Physicochemical Investigations of a Binary Mixture Containing Ionic Liquid 1-Butyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)imide and Diethyl Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 68-80	2.8	5
21	How the presence of ATP affect caffeine hydration and self-aggregation?. <i>Journal of Molecular Liquids</i> , 2020 , 318, 113885	6	5
20	Physicochemical characterization of choline based ionic liquids with chelating anions. <i>Journal of Chemical Thermodynamics</i> , 2019 , 131, 80-87	2.9	5
19	Ionic liquids as potentially new antifungal agents against species.. <i>RSC Advances</i> , 2020 , 10, 22318-22323	3.7	4
18	Anti-adhesive action of novel ruthenium(II) chlorophenyl terpyridine complexes with a high affinity for double-stranded DNA: in vitro and in silico. <i>Journal of Inorganic Biochemistry</i> , 2020 , 208, 111090	4.2	4
17	The solvation properties and effect of d-fructose on the taste behavior of Citrus aurantium active components in aqueous solutions. <i>Food and Function</i> , 2018 , 9, 5569-5579	6.1	4
16	Synthesis, Characterization, Antioxidant Activity of β -diketonates, and Effects of Coordination to Copper(II) Ion on their Activity: DNA, BSA Interactions and Molecular Docking Study. <i>Medicinal Chemistry</i> , 2021 , 17, 519-532	1.8	3
15	Volumetric and viscosimetric properties of N -methyl-2-pyrrolidone with β -butyrolactone and propylene carbonate. <i>Journal of Chemical Thermodynamics</i> , 2015 , 91, 301-312	2.9	2

14	Viscosity of Ammonium Nitrate + Formamide Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 3365-3371	2.8	2
13	From amino acids to dipeptide: The changes in thermal stability and hydration properties of Alanine, L-histidine and L-carnosine. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115250	6	2
12	²¹⁰ Pb/ ²¹⁰ Bi detection in waters by cherenkov counting [Perspectives and new possibilities. <i>Radiation Physics and Chemistry</i> , 2020 , 166, 108474	2.5	2
11	Cation isomerism effect on micellization of pyridinium based surface-active ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116353	6	2
10	Design and analysis of interactions in ionic liquids based on procaine and pharmaceutically active anions. <i>European Journal of Pharmaceutical Sciences</i> , 2021 , 166, 105966	5.1	2
9	Improving ethylene glycol transport properties by caffeine [Thermodynamic and computational evidence. <i>Journal of Molecular Liquids</i> , 2021 , 333, 115918	6	1
8	The nature of ions organisation in aqueous solutions of ionic liquids based on local anaesthetic drugs and salicylic acid. <i>Journal of Molecular Liquids</i> , 2021 , 338, 116673	6	1
7	Mineral composition and growth of tomato and cucumber affected by imidazolium-based ionic liquids. <i>Plant Physiology and Biochemistry</i> , 2021 , 167, 132-139	5.4	1
6	Influence of structural changes of cation and anion on phytotoxicity of selected surface active ionic liquids. <i>Journal of Molecular Liquids</i> , 2021 , 342, 117458	6	1
5	Anticancer evaluation of the selected tetrahydropyrimidines: 3D-QSAR, cytotoxic activities, mechanism of action, DNA, and BSA interactions. <i>Journal of Molecular Structure</i> , 2022 , 1257, 132621	3.4	0
4	Volumetric properties, conductivity and computation analysis of selected imidazolium chloride ionic liquids in ethylene glycol. <i>Journal of Molecular Liquids</i> , 2021 , 345, 118178	6	0
3	Scintillating and wavelength shifting effect investigation of 3-methylpyridinium salicylate and its application in LSC measurements. <i>Applied Radiation and Isotopes</i> , 2021 , 172, 109697	1.7	0
2	Volumetric properties, viscosity and taste behavior of MDMA-HCl in aqueous binary and (water + D-lactose) ternary mixtures at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2020 , 142, 106027	2.9	
1	Influence of the carboxyl group on the physicochemical and hydration properties of the imidazolium-based ionic liquid. <i>Journal of Molecular Liquids</i> , 2021 , 328, 115474	6	