

Mohammad Tariq

List of Publications by Year in descending order

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57
papers

3,016
citations

257450

24
h-index

161849

54
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59
all docs

59
docs citations

59
times ranked

3054
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface tension of ionic liquids and ionic liquid solutions. <i>Chemical Society Reviews</i> , 2012, 41, 829-868.	38.1	375
2	Densities and refractive indices of imidazolium- and phosphonium-based ionic liquids: Effect of temperature, alkyl chain length, and anion. <i>Journal of Chemical Thermodynamics</i> , 2009, 41, 790-798.	2.0	369
3	Volatility of Aprotic Ionic Liquids – A Review. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3-12.	1.9	294
4	Viscosity of (C ₂ –C ₁₄) 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids in an extended temperature range. <i>Fluid Phase Equilibria</i> , 2011, 301, 22-32.	2.5	220
5	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 17855-17868.	3.7	171
6	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.	2.6	154
7	High-temperature surface tension and density measurements of 1-alkyl-3-methylimidazolium bistriflamide ionic liquids. <i>Fluid Phase Equilibria</i> , 2010, 294, 131-138.	2.5	145
8	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO ₂ capture via experimental and molecular simulation approaches. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20941-20960.	2.8	133
9	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.	2.6	89
10	Binary mixtures of ionic liquids with a common ion revisited: A molecular dynamics simulation study. <i>Journal of Molecular Liquids</i> , 2010, 153, 52-56.	4.9	75
11	Interactions of some $\hat{\pm}$ -amino acids with tetra-n-alkylammonium bromides in aqueous medium at different temperatures. <i>Journal of Chemical Thermodynamics</i> , 2007, 39, 613-620.	2.0	70
12	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. <i>RSC Advances</i> , 2016, 6, 23827-23836.	3.6	64
13	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures. <i>International Journal of Thermophysics</i> , 2009, 30, 464-474.	2.1	61
14	Gas Hydrate Prevention and Flow Assurance by Using Mixtures of Ionic Liquids and Synergent Compounds: Combined Kinetics and Thermodynamic Approach. <i>Energy & Fuels</i> , 2016, 30, 3541-3548.	5.1	59
15	Thermodynamic and transport behaviour of binary liquid mixtures of benzyl alcohol with monocyclic aromatics at 303.15 K. <i>Journal of Molecular Liquids</i> , 2006, 128, 50-55.	4.9	54
16	Interaction of glycine with cationic, anionic, and nonionic surfactants at different temperatures: a volumetric, viscometric, refractive index, conductometric, and fluorescence probe study. <i>Colloid and Polymer Science</i> , 2008, 286, 183-190.	2.1	54
17	Dilute aqueous 1-butyl-3-methylimidazolium hexafluorophosphate: properties and solvatochromic probe behavior. <i>Green Chemistry</i> , 2007, 9, 1252.	9.0	43
18	Thermophysical and magnetic studies of two paramagnetic liquid salts: [C ₄ mim][FeCl ₄] and [P66614][FeCl ₄]. <i>Fluid Phase Equilibria</i> , 2013, 350, 43-50.	2.5	41

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19	Characteristics of aggregation in aqueous solutions of dialkylpyrrolidinium bromides. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 606-616.	9.4	36
20	Experimental and DFT Approach on the Determination of Natural Gas Hydrate Equilibrium with the Use of Excess N_2 and Choline Chloride Ionic Liquid as an Inhibitor. <i>Energy & Fuels</i> , 2016, 30, 2821-2832.	5.1	36
21	Ionic-Liquid-Based Printable Materials for Thermochromic and Thermoresistive Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20316-20324.	8.0	33
22	Low-field giant magneto-ionic response in polymer-based nanocomposites. <i>Nanoscale</i> , 2018, 10, 15747-15754.	5.6	31
23	Measurements of the Properties of Binary Mixtures of Dimethylsulphoxide (DMSO) with 1-Alkanols (C ₄ , C ₆ , C ₇) at 303.15 K. <i>International Journal of Thermophysics</i> , 2005, 26, 1537-1548.	2.1	30
24	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Pyridine and 1-Alkanols (C ₆ , C ₇ , C ₈ , C ₁₀) at 303.15 K. <i>Chinese Journal of Chemistry</i> , 2008, 26, 2009-2015.	4.9	24
25	Anomalous and Not-So-Common Behavior in Common Ionic Liquids and Ionic Liquid-Containing Systems. <i>Frontiers in Chemistry</i> , 2019, 7, 450.	3.6	24
26	Interactions of Phenylalanine, Tyrosine and Histidine in Aqueous Caffeine Solutions at Different Temperatures. <i>Journal of the Chinese Chemical Society</i> , 2007, 54, 659-666.	1.4	23
27	Paramagnetic Ionic Liquid/Metal Organic Framework Composites for CO ₂ /CH ₄ and CO ₂ /N ₂ Separations. <i>Frontiers in Chemistry</i> , 2020, 8, 590191.	3.6	22
28	Viscosity minima in binary mixtures of ionic liquids + molecular solvents. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13480-13494.	2.8	21
29	Shifts in the temperature of maximum density (TMD) of ionic liquid aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10960.	2.8	20
30	Investigation of the performance of biocompatible gas hydrate inhibitors via combined experimental and DFT methods. <i>Journal of Chemical Thermodynamics</i> , 2017, 111, 7-19.	2.0	20
31	Magnetic ionic liquid/polymer composites: Tailoring physico-chemical properties by ionic liquid content and solvent evaporation temperature. <i>Composites Part B: Engineering</i> , 2019, 178, 107516.	12.0	20
32	Insights into CO ₂ hydrates formation and dissociation at isochoric conditions using a rocking cell apparatus. <i>Chemical Engineering Science</i> , 2022, 249, 117319.	3.8	17
33	Probing the self-aggregation of ionic liquids in aqueous solutions using density and speed of sound data. <i>Journal of Chemical Thermodynamics</i> , 2013, 59, 43-48.	2.0	16
34	DEVIATIONS IN REFRACTIVE INDEX PARAMETERS AND APPLICABILITY OF MIXING RULES IN BINARY MIXTURES OF BENZENE+1,2-DICHLOROETHANE AT DIFFERENT TEMPERATURES. <i>Chemical Engineering Communications</i> , 2007, 195, 43-56.	2.6	15
35	Effect of alkyl chain length on the adsorption and frictional behaviour of 1-alkyl-3-methylimidazolium chloride ionic liquid surfactants on gold surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 377, 361-366.	4.7	15
36	T-Cell Antigen Receptor-alpha Chain Transmembrane Peptides: Correlation between Structure and Function. <i>International Journal of Peptide Research and Therapeutics</i> , 2006, 12, 261-267.	1.9	14

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37	Design of Ionic-Liquid-Based Hybrid Polymer Materials with a Magnetoactive and Electroactive Multifunctional Response. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 42089-42098.	8.0	14
38	Surface thermodynamic behaviour of binary liquid mixtures of benzene and 1,1,2,2-tetrachloroethane at different temperatures: an experimental and theoretical study. <i>Physics and Chemistry of Liquids</i> , 2008, 46, 47-58.	1.2	13
39	Viscosity Mixing Rules for Binary Systems Containing One Ionic Liquid. <i>ChemPhysChem</i> , 2013, 14, 1956-1968.	2.1	12
40	Modulation of amyloid fibril formation of plasma protein by saffron constituent crocetin: Spectroscopic and imaging analyses. <i>International Journal of Biological Macromolecules</i> , 2019, 127, 529-535.	7.5	12
41	Self-Organization in Ionic Liquids: From Bulk to Interfaces and Films. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	12
42	Temperature dependence of excess molar volumes, and deviation in isentropic compressibilities of binary liquid mixtures of benzene with chloroalkanes. <i>Journal of Molecular Liquids</i> , 2008, 137, 64-73.	4.9	10
43	Structural organization of ionic liquids embedded in fluorinated polymers. <i>Journal of Molecular Liquids</i> , 2022, 360, 119385.	4.9	8
44	Volumetric, Viscometric and Refractive Index Behaviors of α -Amino Acids in Aqueous Caffeine Solution at Varying Temperatures. <i>Acta Physico-chimica Sinica</i> , 2007, 23, 79-84.	0.6	7
45	Surface Coatings and Treatments for Controlled Hydrate Formation: A Mini Review. <i>Physchem</i> , 2021, 1, 272-287.	1.1	7
46	Effect of Russell's venom on lipid peroxidation in organs of the mouse. <i>Toxicon</i> , 1981, 19, 903-905.	1.6	6
47	Adsorption and viscoelastic behaviour of ionic liquid surfactants on gold surfaces. <i>Journal of Molecular Liquids</i> , 2019, 282, 633-641.	4.9	5
48	Viscosity of [C4mim][(CF3SO2)2N], [C4mim][N(CN)2], [C2mim][C2H5SO4] and [Aliquat][N(CN)2] in a wide temperature range. Measurement, correlation, and interpretation. <i>Journal of Molecular Liquids</i> , 2021, 337, 116482.	4.9	4
49	Environmentally friendly carrageenan-based ionic-liquid driven soft actuators. <i>Materials Advances</i> , 2022, 3, 937-945.	5.4	4
50	Probing Ionic Liquid Aqueous Solutions Using Temperature of Maximum Density Isotope Effects. <i>Molecules</i> , 2013, 18, 3703-3711.	3.8	3
51	Photocurable temperature activated humidity hybrid sensing materials for multifunctional coatings. <i>Polymer</i> , 2021, 221, 123635.	3.8	3
52	Effect of Thiuronium-Based Ionic Liquids on the Formation and Growth of CO ₂ (sl) and THF (sll) Hydrates. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3292.	4.1	3
53	Effect of carbon tetrachloride on cardiac lipid peroxidation, serum lipids and enzymes of albino rats. <i>Toxicology Letters</i> , 1982, 11, 229-232.	0.8	1
54	Negative Pressure Regimes in Ionic Liquids: Structure and Interactions in Stretched Liquids as Probed by NMR. <i>ECS Transactions</i> , 2018, 86, 141-147.	0.5	1

#	ARTICLE	IF	CITATIONS
55	Characterization of Thermal, Ionic Conductivity and Electrochemical Properties of Some p-Tosylate Anions-Based Protic Ionic Compounds. Crystals, 2022, 12, 507.	2.2	1
56	Ionic Liquids as Multi-purpose Inhibitors to avoid Natural Gas Hydrates during Gas Processing. , 2016, , .		0
57	Negative Pressure Regimes in Ionic Liquids: Structure and Interactions in Stretched Liquids as Probed by NMR. ECS Meeting Abstracts, 2018, , .	0.0	0