Mohammad Tariq

List of Publications by Year
in descending order

57 papers	3,016 citations	257450 24 h-index	161849 54 g-index
59 all docs	59 docs citations	59 times ranked	3054 citing authors

#	Article	IF	Citations
1	Insights into CO2 hydrates formation and dissociation at isochoric conditions using a rocking cell apparatus. Chemical Engineering Science, 2022, 249, 117319.	3.8	17
2	Environmentally friendly carrageenan-based ionic-liquid driven soft actuators. Materials Advances, 2022, 3, 937-945.	5.4	4
3	Effect of Thiouronium-Based Ionic Liquids on the Formation and Growth of CO2 (sI) and THF (sII) Hydrates. International Journal of Molecular Sciences, 2022, 23, 3292.	4.1	3
4	Characterization of Thermal, Ionic Conductivity and Electrochemical Properties of Some p-Tosylate Anions-Based Protic Ionic Compounds. Crystals, 2022, 12, 507.	2.2	1
5	Structural organization of ionic liquids embedded in fluorinated polymers. Journal of Molecular Liquids, 2022, 360, 119385.	4.9	8
6	Photocurable temperature activated humidity hybrid sensing materials for multifunctional coatings. Polymer, 2021, 221, 123635.	3.8	3
7	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. Journal of Molecular Liquids, 2021, 337, 116482.	4.9	4
8	Surface Coatings and Treatments for Controlled Hydrate Formation: A Mini Review. Physchem, 2021, 1, 272-287.	1.1	7
9	Design of Ionic-Liquid-Based Hybrid Polymer Materials with a Magnetoactive and Electroactive Multifunctional Response. ACS Applied Materials & Interfaces, 2020, 12, 42089-42098.	8.0	14
10	Paramagnetic Ionic Liquid/Metal Organic Framework Composites for CO2/CH4 and CO2/N2 Separations. Frontiers in Chemistry, 2020, 8, 590191.	3.6	22
11	Magnetic ionic liquid/polymer composites: Tailoring physico-chemical properties by ionic liquid content and solvent evaporation temperature. Composites Part B: Engineering, 2019, 178, 107516.	12.0	20
12	Anomalous and Not-So-Common Behavior in Common Ionic Liquids and Ionic Liquid-Containing Systems. Frontiers in Chemistry, 2019, 7, 450.	3.6	24
13	Ionic-Liquid-Based Printable Materials for Thermochromic and Thermoresistive Applications. ACS Applied Materials & Interfaces, 2019, 11, 20316-20324.	8.0	33
14	Adsorption and viscoelastic behaviour of ionic liquid surfactants on gold surfaces. Journal of Molecular Liquids, 2019, 282, 633-641.	4.9	5
15	Modulation of amyloid fibril formation of plasma protein by saffron constituent â€œsafranalâ€• Spectroscopic and imaging analyses. International Journal of Biological Macromolecules, 2019, 127, 529-535.	7.5	12
16	Negative Pressure Regimes in Ionic Liquids: Structure and Interactions in Stretched Liquids as Probed by NMR. ECS Transactions, 2018, 86, 141-147.	0.5	1
17	Low-field giant magneto-ionic response in polymer-based nanocomposites. Nanoscale, 2018, 10, 15747-15754.	5.6	31
18	Negative Pressure Regimes in Ionic Liquids: Structure and Interactions in Stretched Liquids as Probed by NMR. ECS Meeting Abstracts, 2018, , .	0.0	0

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19	Investigation of the performance of biocompatible gas hydrate inhibitors via combined experimental and DFT methods. Journal of Chemical Thermodynamics, 2017, 111, 7-19.	2.0	20
20	Ionic Liquids as Multi-purpose Inhibitors to avoid Natural Gas Hydrates during Gas Processing. , 2016, , .		0
21	Experimental and DFT Approach on the Determination of Natural Gas Hydrate Equilibrium with the Use of Excess N₂ and Choline Chloride Ionic Liquid as an Inhibitor. Energy & Fuels, 2016, 30, 2821-2832.	5.1	36
22	Doubly dual nature of ammonium-based ionic liquids for methane hydrates probed by rocking-rig assembly. RSC Advances, 2016, 6, 23827-23836.	3.6	64
23	Gas Hydrate Prevention and Flow Assurance by Using Mixtures of Ionic Liquids and Synergent Compounds: Combined Kinetics and Thermodynamic Approach. Energy & Fuels, 2016, 30, 3541-3548.	5.1	59
24	A detailed study of cholinium chloride and levulinic acid deep eutectic solvent system for CO₂ capture via experimental and molecular simulation approaches. Physical Chemistry Chemical Physics, 2015, 17, 20941-20960.	2.8	133
25	Viscosity minima in binary mixtures of ionic liquids + molecular solvents. Physical Chemistry Chemical Physics, 2015, 17, 13480-13494.	2.8	21
26	Self-Organization in Ionic Liquids: From Bulk to Interfaces and Films. Journal of the Brazilian Chemical Society, 2015, , .	0.6	12
27	Gas Hydrate Inhibition: A Review of the Role of Ionic Liquids. Industrial & Engineering Chemistry Research, 2014, 53, 17855-17868.	3.7	171
28	Shifts in the temperature of maximum density (TMD) of ionic liquid aqueous solutions. Physical Chemistry Chemical Physics, 2013, 15, 10960.	2.8	20
29	Probing the self-aggregation of ionic liquids in aqueous solutions using density and speed of sound data. Journal of Chemical Thermodynamics, 2013, 59, 43-48.	2.0	16
30	Thermophysical and magnetic studies of two paramagnetic liquid salts: [C4mim][FeCl4] and [P66614][FeCl4]. Fluid Phase Equilibria, 2013, 350, 43-50.	2.5	41
31	Viscosity Mixing Rules for Binary Systems Containing One Ionic Liquid. ChemPhysChem, 2013, 14, 1956-1968.	2.1	12
32	Probing Ionic Liquid Aqueous Solutions Using Temperature of Maximum Density Isotope Effects. Molecules, 2013, 18, 3703-3711.	3.8	3
33	Surface tension of ionic liquids and ionic liquid solutions. Chemical Society Reviews, 2012, 41, 829-868.	38.1	375
34	Polarity, Viscosity, and Ionic Conductivity of Liquid Mixtures Containing [C₄C₁im][Ntf₂] and a Molecular Component. Journal of Physical Chemistry B, 2011, 115, 6088-6099.	2.6	154
35	Viscosity of (C2â€“C14) 1-alkyl-3-methylimidazolium bis(trifluoromethylsulfonyl)amide ionic liquids in an extended temperature range. Fluid Phase Equilibria, 2011, 301, 22-32.	2.5	220
36	Effect of alkyl chain length on the adsorption and frictional behaviour of 1-alkyl-3-methylimidazolium chloride ionic liquid surfactants on gold surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 377, 361-366.	4.7	15

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37	Characteristics of aggregation in aqueous solutions of dialkylpyrrolidinium bromides. Journal of Colloid and Interface Science, 2011, 360, 606-616.	9.4	36
38	Binary mixtures of ionic liquids with a common ion revisited: A molecular dynamics simulation study. Journal of Molecular Liquids, 2010, 153, 52-56.	4.9	75
39	High-temperature surface tension and density measurements of 1-alkyl-3-methylimidazolium bistriflamide ionic liquids. Fluid Phase Equilibria, 2010, 294, 131-138.	2.5	145
40	Assessing the Dispersive and Electrostatic Components of the Cohesive Energy of Ionic Liquids Using Molecular Dynamics Simulations and Molar Refraction Data. Journal of Physical Chemistry B, 2010, 114, 5831-5834.	2.6	89
41	Volatility of Aprotic Ionic Liquids â€" A Review. Journal of Chemical & Engineering Data, 2010, 55, 3-12.	1.9	294
42	Volumetric, Viscometric, Ultrasonic, and Refractive Index Properties of Liquid Mixtures of Benzene with Industrially Important Monomers at Different Temperatures. International Journal of Thermophysics, 2009, 30, 464-474.	2.1	61
43	Densities and refractive indices of imidazolium- and phosphonium-based ionic liquids: Effect of temperature, alkyl chain length, and anion. Journal of Chemical Thermodynamics, 2009, 41, 790-798.	2.0	369
44	Interaction of glycine with cationic, anionic, and nonionic surfactants at different temperatures: a volumetric, viscometric, refractive index, conductometric, and fluorescence probe study. Colloid and Polymer Science, 2008, 286, 183-190.	2.1	54
45	Density, Viscosity, Refractive Index, and Speed of Sound in Binary Mixtures of Pyridine and 1â€Alkanols (C₆, C₇, C₈, C₁₀) at 303.15 K. Chinese Journal of Chemistry, 2008, 26, 2009-2015.	4.9	24
46	Temperature dependence of excess molar volumes, and deviation in isentropic compresibilities of binary liquid mixtures of benzene with chloroalkanes. Journal of Molecular Liquids, 2008, 137, 64-73.	4.9	10
47	Surface thermodynamic behaviour of binary liquid mixtures of benzene+1,1,2,2-tetrachloroethane at different temperatures: an experimental and theoretical study. Physics and Chemistry of Liquids, 2008, 46, 47-58.	1.2	13
48	DEVIATIONS IN REFRACTIVE INDEX PARAMETERS AND APPLICABILITY OF MIXING RULES IN BINARY MIXTURES OF BENZENEÂ+Â1,2-DICHLOROETHANE AT DIFFERENT TEMPERATURES. Chemical Engineering Communications, 2007, 195, 43-56.	2.6	15
49	Interactions of Phenylalanine, Tyrosine and Histidine in Aqueous Caffeine Solutions at Different Temperatures. Journal of the Chinese Chemical Society, 2007, 54, 659-666.	1.4	23
50	Dilute aqueous 1-butyl-3-methylimidazolium hexafluorophosphate: properties and solvatochromic probe behavior. Green Chemistry, 2007, 9, 1252.	9.0	43
51	Volumetric, Viscometric and Refractive Index Behaviors of Î±-Amino Acids in Aqueous Caffeine Solution at Varying Temperatures. Acta Physico-chimica Sinica, 2007, 23, 79-84.	0.6	7
52	Interactions of some Î±-amino acids with tetra-n-alkylammonium bromides in aqueous medium at different temperatures. Journal of Chemical Thermodynamics, 2007, 39, 613-620.	2.0	70
53	Thermodynamic and transport behaviour of binary liquid mixtures of benzyl alcohol with monocyclic aromatics at 303.15 K. Journal of Molecular Liquids, 2006, 128, 50-55.	4.9	54
54	T-Cell Antigen Receptor-alpha Chain Transmembrane Peptides: Correlation between Structure and Function. International Journal of Peptide Research and Therapeutics, 2006, 12, 261-267.	1.9	14

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55	Measurements of the Properties of Binary Mixtures of Dimethylsulphoxide (DMSO) with 1-Alkanols (C4, C6, C7) at 303.15ÂK. International Journal of Thermophysics, 2005, 26, 1537-1548.	2.1	30
56	Effect of carbon tetrachloride on cardiac lipid peroxidation, serum lipids and enzymes of albino rats. Toxicology Letters, 1982, 11, 229-232.	0.8	1
57	Effect of Russell's venom on lipid peroxidation in organs of the mouse. Toxicon, 1981, 19, 903-905.	1.6	6