

# Harsh Kumar

## List of Publications by Citations

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204  
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2,574  
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27  
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212  
ext. papers

2,983  
ext. citations

3.7  
avg, IF

6.03  
L-index

#	Paper	IF	Citations
204	Green Chemistry of Zein Protein Toward the Synthesis of Bioconjugated Nanoparticles: Understanding Unfolding, Fusogenic Behavior, and Hemolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 627-639	8.3	64
203	Investigation on molecular interaction of amino acids in antibacterial drug ampicillin solutions with reference to volumetric and compressibility measurements. <i>Journal of Molecular Liquids</i> , <b>2012</b> , 173, 130-136	6.36	63
202	Interactions of glycine, L-alanine and L-valine with aqueous solutions of trisodium citrate at different temperatures: A volumetric and acoustic approach. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 67, 170-180	2.9	50
201	Non-ideal behaviour of imidazolium based room temperature ionic liquids in ethylene glycol at T= (298.15 to 318.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2009</b> , 41, 717-723	2.9	48
200	Solute-solvent interactions of glycine, l-alanine, and l-valine in aqueous 1-methyl-3-octylimidazolium chloride ionic liquid solutions in the temperature interval (288.15-308.15) K. <i>Thermochimica Acta</i> , <b>2014</b> , 590, 127-137	2.9	44
199	Effect of l-serine and l-threonine on volumetric and acoustic behaviour of aqueous metformin hydrochloride solutions at T= (305.15, 310.15 and 315.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 95, 1-14	2.9	43
198	Block copolymer micelles as nanoreactors for self-assembled morphologies of gold nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 3028-39	3.4	42
197	Apparent molar volumes and transport behavior of glycine and l-valine in aqueous solutions of tripotassium citrate at T = (308.15 and 318.15) K. <i>Journal of Molecular Liquids</i> , <b>2011</b> , 162, 89-94	6	39
196	Densities and Speeds of Sound of l-Serine with Aqueous Solutions of Antibacterial Drugs at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 203-208	2.8	38
195	Lysozyme Complexes for the Synthesis of Functionalized Biomaterials To Understand Protein-Protein Interactions and Their Biological Applications. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 28207-28219	3.8	35
194	Mixing Properties for Binary Liquid Mixtures of Methyl tert-Butyl Ether with Propylamine and Dipropylamine at Temperatures from (288.15 to 308.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 1424-1429	2.8	35
193	Interionic interactions of glycine, l-alanine, glycyglycine and phenylalanine in aqueous 1-hexyl-3-methylimidazolium chloride ionic liquid solutions at T= (288.15 to 308.15) K: Volumetric, speed of sound and viscometric measurements. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 218, 68-82	6	33
192	Volumetric and Acoustic Behavior of d(+)-glucose and d(-)-fructose in Aqueous Trisodium Citrate Solutions at Different Temperatures. <i>Journal of Solution Chemistry</i> , <b>2016</b> , 45, 1-27	1.8	33
191	Interaction of antibacterial drug ampicillin with glycine and its dipeptides analyzed by volumetric and acoustic methods at different temperatures. <i>Thermochimica Acta</i> , <b>2013</b> , 551, 40-45	2.9	33
190	Studies of volumetric and acoustic properties of trisodium citrate and tripotassium citrate in aqueous solutions of N-acetyl glycine at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 59, 173-181	2.9	33
189	Volumetric, acoustic, viscometric, and spectroscopic properties for binary mixtures of alkoxypropanol with mono, di- and tri-alkylamines at a temperature of 298.15K. <i>Journal of Chemical Thermodynamics</i> , <b>2006</b> , 38, 1227-1239	2.9	33
188	Thermodynamics of (solute + solute) and (solute + solvent) interactions of homologous series of amino acids with thiamine hydrochloride in aqueous medium at T = (305.15, 310.15, 315.15) K: A volumetric and acoustic approach. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 102, 48-62	2.9	33

187	Studies of interionic interactions of l-serine/l-threonine in aqueous trilithium citrate solutions using density and speeds of sound measurements at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 208, 170-182	6	32
186	Solvation behaviour of biologically active compounds in aqueous solutions of antibacterial drug amoxicillin at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 76, 100-115	2.9	31
185	Solvation behavior of some amino acids in aqueous solutions of non-steroidal anti-inflammatory drug sodium ibuprofen at different temperatures analysed by volumetric and acoustic methods. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 98, 214-230	2.9	30
184	Excess molar volumes and viscosities of binary liquid mixtures of (polyether + ester) systems at 298.15, 308.15, and 318.15 K. <i>Fluid Phase Equilibria</i> , <b>2001</b> , 181, 17-32	2.5	30
183	Volumetric, ultrasonic and UV absorption studies on interactions of antibiotic drug chloramphenicol with glycine and its dipeptide in aqueous solutions at T = (288.15B18.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 99, 16-29	2.9	29
182	Investigations on molecular interaction of some amino acids with the drug levofloxacin in aqueous solution by volumetric and acoustic methods at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 105, 94-104	2.9	29
181	Association of indoor and outdoor air pollutant level with respiratory problems among children in an industrial area of Delhi, India. <i>Archives of Environmental and Occupational Health</i> , <b>2007</b> , 62, 75-80	2	28
180	Densities and Speeds of Sound of Antibiotic Drug Chloramphenicol with l-Leucine and Glycyl-l-leucine in Aqueous Medium at T = (288.15B18.15) K: A Volumetric, Ultrasonic, and UV Absorption Study. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 3740-3751	2.8	28
179	Investigation on Temperature-Dependent Volumetric and Acoustical Properties of Homologous Series of Glycols in Aqueous Sorbitol Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 3769-3782	2.8	27
178	Effect of dipotassium hydrogen phosphate on thermodynamic properties of glycine and l-alanine in aqueous solutions at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 53, 86-92	2.9	27
177	Excess molar volumes and viscosities of binary mixtures of some n-alkoxyethanols with pyrrolidin-2-one at 298.15 K. <i>Journal of Molecular Liquids</i> , <b>2001</b> , 94, 163-177	6	27
176	Protein mixtures of environmentally friendly zein to understand protein-protein interactions through biomaterials synthesis, hemolysis, and their antimicrobial activities. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14257-70	3.6	26
175	Excess Molar Volumes and Partial Molar Volumes of Dipropylene Glycol Monomethyl Ether + n-Alkanol Mixtures at 25°C. <i>Journal of Solution Chemistry</i> , <b>2001</b> , 30, 411-423	1.8	26
174	Volumetric, acoustic, and UV absorption studies on solute-solvent interactions of dipeptides of glycine with aqueous amoxicillin solutions. <i>Thermochimica Acta</i> , <b>2014</b> , 591, 140-151	2.9	25
173	Densities and Speeds of Sound of Binary Liquid Mixtures of Some n-Alkoxypropanols with Methyl Acetate, Ethyl Acetate, and n-Butyl Acetate at T = (288.15, 293.15, 298.15, 303.15, and 308.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 225-239	2.8	25
172	Acoustic and thermodynamic study of D-Panthenol in aqueous solutions of glycol at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 126, 137-146	2.9	24
171	Volumetric properties of glycine, l-alanine, and l-valine in aqueous solutions of triammonium citrate at different temperatures. <i>Monatshefte Für Chemie</i> , <b>2014</b> , 145, 565-575	1.4	24
170	Effect of N-acetylglycine on volumetric, acoustic and viscometric behavior of aqueous amoxicillin solutions. <i>Thermochimica Acta</i> , <b>2014</b> , 583, 49-58	2.9	24

169	FT-IR spectroscopic and micellization studies of cetyltrimethylammonium bromide in aqueous and aqueous solution of ionic liquid (1-butyl-3-methylimidazolium bromide) at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 249, 227-232	6	24
168	Surface Adsorption and Molecular Modeling of Biofunctional Gold Nanoparticles for Systemic Circulation and Biological Sustainability. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3175-3187	8.3	23
167	Investigations on solute-solvent interactions of amino acids in aqueous solutions of sodium dihydrogen phosphate at different temperatures. <i>Monatshefte Für Chemie</i> , <b>2014</b> , 145, 1063-1082	1.4	23
166	Viscometric measurements of l-serine with antibacterial drugs ampicillin and amoxicillin at different temperatures: (305.15 to 315.15) K. <i>Journal of Molecular Liquids</i> , <b>2013</b> , 177, 49-53	6	23
165	Solute-solvent interactions of glycine, l-alanine, and l-valine in aqueous 1-methyl imidazolium chloride ionic liquid solutions in the temperature interval (288.15 to 308.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 91, 146-155	2.9	23
164	Excess molar volumes and viscosities of mixtures of some n-alkoxyethanols with dialkyl carbonates at 298.15 K. <i>Fluid Phase Equilibria</i> , <b>1999</b> , 166, 245-258	2.5	22
163	Volumetric and ultrasonic studies on interactions of ethylene glycol, diethylene glycol and triethylene glycol in aqueous solutions of glycerol at temperatures T = (293.15 K to 308.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 125, 93-106	2.9	22
162	Investigation on molecular interaction of glycols in methanol solutions of methylparaben (methyl 4-hydroxybenzoate) at different temperatures through thermo-acoustical analysis. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 288, 111014	6	21
161	Temperature dependent physicochemical studies of polyethylene glycols (PEG-400 and PEG-4000) in aqueous sorbitol solutions. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 268, 700-706	6	21
160	Development of biosensors for the detection of biological warfare agents: its issues and challenges. <i>Science Progress</i> , <b>2013</b> , 96, 294-308	1.1	21
159	Temperature dependence of the volumetric properties of some alkoxypropanols + n-alkanol mixtures. <i>Journal of Chemical Thermodynamics</i> , <b>2004</b> , 36, 173-182	2.9	21
158	Volumetric, acoustic and viscometric behaviour of dipotassium hydrogen phosphate and disodium hydrogen phosphate in aqueous solution of N-acetyl glycine at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 94, 204-220	2.9	20
157	Mode of Protein Complexes on Gold Nanoparticles Surface: Synthesis and Characterization of Biomaterials for Hemocompatibility and Preferential DNA Complexation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 1082-1093	8.3	20
156	Volumetric and ultrasonic investigation of molecular interactions of l-serine and l-threonine in aqueous nicotinamide solutions at T= (288.15 to 318.15) K. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 219, 756-764	6	20
155	Interaction of cationic surfactant cetyltrimethylammonium bromide (CTAB) with hydrophilic ionic liquid 1-butyl-3-methylimidazolium chloride [C4mim][Cl] at different temperatures □ Conductometric and FT-IR spectroscopic study. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 266, 252-258	6	19
154	Interactions of amino acids in aqueous triammonium citrate solutions at different temperatures: A viscometric approach. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 199, 385-392	6	19
153	Excess Molar Volumes and Viscosities of Mixtures Containing Some Polyethers + Acetonitrile at 298.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>1999</b> , 44, 1330-1334	2.8	19
152	Transport behavior of aliphatic amino acids glycine/l-alanine/l-valine and hydroxyl amino acids l-serine/l-threonine in aqueous trilithium citrate solutions at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 206, 343-349	6	18

151	Aggregation behaviour of cationic (cetyltrimethylammonium bromide) and anionic (sodium dodecylsulphate) surfactants in aqueous solution of synthesized ionic liquid [1-pentyl-3-methylimidazolium bromide] -Conductivity and FT-IR spectroscopic studies. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 258, 285-294	6	18
150	Densities, Sound Speed, and Viscosities of Some Amino Acids with Aqueous Tetra-Butyl Ammonium Iodide Solutions at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2600-2611	2.8	18
149	Densities and Speeds of Sound of Glycine, l-Alanine, and l-Valine in Aqueous 1-Ethyl-3-methylimidazolium Chloride Solutions at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 1217-1226	2.8	17
148	Acoustical and volumetric investigation of polyethylene glycol 400 and polyethylene glycol 4000 in aqueous solutions of glycerol at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 127, 8-16	2.9	17
147	Synthesis and study of interactions of ionic liquid 1-methyl-3-pentylimidazolium bromide with amino acids at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 560-570	6	17
146	Volumetric, acoustic and spectroscopic studies (FT-IR) of trisodium (TSC) and tripotassium citrate (TPC) in aqueous solution of ionic liquid 1-butyl-3-methylimidazolium tetrafluoro borate [C 4 mim][BF 4 ] at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 116, 85-96	2.9	16
145	Solvation behavior of some amino acid compounds in aqueous solutions of trilithium citrate at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 197, 301-314	6	16
144	Volumetric and Acoustic Studies of Binary Liquid Mixtures of Dipropylene Glycol Dimethyl Ether with Methyl Acetate, Ethyl Acetate and n-Butyl Acetate in the Temperature Range T = (288.15, 293.15, 298.15, 303.15, and 308.15) K. <i>Journal of Solution Chemistry</i> , <b>2013</b> , 42, 1988-2011	1.8	16
143	Acoustical Studies of Binary Liquid Mixtures of Cyclopentane with 1-Alkanol at Different Temperatures and Different Approaches for Ideal Mixing Laws. <i>Journal of Solution Chemistry</i> , <b>2010</b> , 39, 967-986	1.8	16
142	Thermodynamic Interactions Study of Some Ethylene Glycols in Aqueous Aniline Solutions at Different Temperatures: An Acoustical and Volumetric Approach. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 3237-3251	2.8	15
141	Density and speed of sound for binary mixtures of 1,4-dioxane with propanol and butanol isomers at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2013</b> , 187, 278-286	6	15
140	A highly efficient and magnetically retrievable functionalized nano-adsorbent for ultrasonication assisted rapid and selective extraction of Pd <sup>2+</sup> ions from water samples. <i>RSC Advances</i> , <b>2015</b> , 5, 43371-43380	3.7	15
139	Volumetric properties of binary mixtures of 2-alkoxyethanols with N,N-dimethylformamide and N,N-dimethylacetamide at 298.15 K. <i>Journal of Molecular Liquids</i> , <b>2003</b> , 108, 231-255	6	15
138	Acoustic, volumetric and spectral studies of binary liquid mixtures of aliphatic dialkylamine and 2-alkanols at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 132, 1-8	2.9	15
137	Study of interactions of d(+)-glucose and d(β)-fructose with trilithium citrate in aqueous medium through volumetric and ultrasonic properties over the temperature range T=(288.15B18.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 106, 59-70	2.9	14
136	Volumetric and Ultrasonic Studies on Interactions of Glycols in Aqueous Solutions of Xylitol at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 1435-1446	2.8	14
135	Effect of temperature on viscometric properties of aliphatic amino acids glycine/l-alanine/l-valine in aqueous solutions of tetraethylammonium iodide. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 216, 516-525	6	14
134	Volumetric, Compressibility and UV Spectral Studies on Interactions of Amino Acids with Aqueous Solutions of Potassium Dihydrogen Phosphate at Different Temperatures. <i>Journal of Solution Chemistry</i> , <b>2013</b> , 42, 592-614	1.8	14



133	Densities, Sound Speed, and UV Absorption Studies of Trisodium Citrate and Tripotassium Citrate in Aqueous Solutions of 1-Hexyl-3-methylimidazolium Chloride [C6mim][Cl]. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 4049-4061	2.8	14
132	Transport behavior of l-alanine, l-valine and l-leucine in ampicillin solutions over temperature range (305.15 to 315.15)K. <i>Journal of Molecular Liquids</i> , <b>2013</b> , 179, 67-71	6	14
131	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at T = (298.15, 308.15, and 318.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2011</b> , 56, 2669-2676	2.8	14
130	Thermodynamics of binary liquid mixtures of cyclopentane with 2-propanol, 1-butanol and 2-butanol at different temperatures. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 1071-1080	4.1	14
129	Viscometric studies of binary liquid mixtures of cyclopentane (1) +2-propanol (2), +1-butanol (2), and +2-butanol (2) at T=(298.15 and 308.15) K. <i>Journal of Molecular Liquids</i> , <b>2011</b> , 158, 182-186	6	14
128	Excess molar volumes, and viscosities of tetraethylene glycol dimethyl ether with methyl acetate, ethyl acetate, and propyl acetate at (298.15, 308.15, and 318.15) K. <i>Journal of Molecular Liquids</i> , <b>2000</b> , 89, 189-206	6	14
127	Study of solute-solute and solute-solvent interactions of N-acetyl glycine in aqueous d-fructose solutions at different temperatures. <i>Thermochimica Acta</i> , <b>2015</b> , 607, 1-8	2.9	13
126	Interionic Interactions of Aqueous Mixtures of Ionic Liquid 1-Hexyl-3-methylimidazolium Chloride with Phosphate Salts at T = (288.15 to 308.15) K: Volumetric, Acoustic and UV Absorption Studies. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2015</b> , 60, 2937-2950	2.8	13
125	Conductometric and spectroscopic studies of cetyltrimethylammonium bromide in aqueous solutions of imidazolium based ionic liquid 1-butyl-3-methylimidazolium tetrafluoroborate. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 211, 1018-1025	6	13
124	Influence of 1-hexyl-3-methylimidazolium bromide ionic liquid on the volumetric and acoustic properties of amino acids (L-alanine and L-phenylalanine) at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 304, 112666	6	13
123	Volumetric, acoustic and infrared spectroscopic study of amino acids in aqueous solutions of pyrrolidinium based ionic liquid, 1-butyl-3-methyl pyrrolidinium bromide. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 303, 112592	6	12
122	Investigation on molecular interaction of amino acids in aqueous disodium hydrogen phosphate solutions with reference to volumetric and compressibility measurements. <i>Journal of Chemical Thermodynamics</i> , <b>2014</b> , 70, 190-202	2.9	12
121	Exploring molecular interactions of aliphatic amino acids glycine, l-alanine, l-valine in aqueous potassium oxalate solutions from 288.15 K to 318.15 K through thermo-acoustical analysis. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 244, 27-38	6	12
120	Solute solvent interactions of mono saccharides D(-)ribose and D(+)-xylose in aqueous trisodium citrate solutions at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2015</b> , 211, 604-612	6	12
119	Acoustic, Viscometric, and Spectroscopic Studies of Dipropylene Glycol Monopropyl Ether with n-Alkanols at Temperatures of 288.15, 298.15, and 308.15 K. <i>Journal of Solution Chemistry</i> , <b>2011</b> , 40, 786-802	1.8	12
118	Viscometric studies of binary liquid mixtures of cyclopentane (1) + 1-alkanol (2) at (298.15, 308.15, and 308.15) K. <i>Journal of Molecular Liquids</i> , <b>2010</b> , 157, 151-157	6	12
117	Speeds of Sound and Isentropic Compressibilities of n-Alkoxyethanols and Polyethers with Propylamine at 298.15 K. <i>International Journal of Thermophysics</i> , <b>2006</b> , 27, 777-793	2.1	12
116	Scrutinizing Self-Assembly, Surface Activity and Aggregation Behavior of Mixtures of Imidazolium Based Ionic Liquids and Surfactants: A Comprehensive Review. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 667941	5	12

115	Study of solvation consequences of glycine, L-alanine and L-valine in aqueous 1-butyl-4-methyl pyridinium chloride ionic liquid solutions probed by physicochemical approach in the temperature interval (288.15-308.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 110, 137-153	2.9	11
114	Volumetric and ultrasonic properties of amino acids (glycine, l -alanine and l -valine) in aqueous diammonium hydrogen phosphate at different temperatures and concentrations. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 241, 751-763	6	11
113	Temperature-Dependent Thermodynamic Properties of Amino Acids in Aqueous Imidazolium-Based Ionic Liquid. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 1473-1487	2.8	11
112	Viscometric measurements of dipeptides of alanine in aqueous solutions of antibacterial drug ampicillin at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 191, 183-188	6	11
111	Studies on Intermolecular Interactions in Liquid Mixtures of Alkoxyalkanols and Branched Alcohols by Volumetric and Acoustic Measurements at Different Temperatures. <i>Journal of Solution Chemistry</i> , <b>2013</b> , 42, 428-440	1.8	11
110	Thermophysical properties of ionic liquid {1-butyl-3-methylimidazolium bromide [bmim][Br] in alkoxyalkanols + water} mixtures at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2013</b> , 57, 182-188	2.9	11
109	Densities and Excess Molar Volumes of Cyclopentane (1) + 1-Alkanol (2) Systems at (298.15 and 308.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2009</b> , 54, 165-167	2.8	11
108	Thermodynamic properties of glycine and diglycine in aqueous solutions of 1-pentyl-3-methylimidazolium chloride at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 229, 417-423	6	10
107	Investigation on solute-solvent interactions of glycine, l -alanine and l -valine in aqueous tetraethylammonium iodide solutions at different temperatures with reference to volumetric and acoustic measurements. <i>Journal of Chemical Thermodynamics</i> , <b>2015</b> , 91, 346-359	2.9	10
106	Densities and Speeds of Sound of d(+)-Glucose, d(β)-Fructose, d(+)-Xylose and d(β)-Ribose in Aqueous Tripotassium Citrate Solutions at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2016</b> , 61, 2244-2259	2.8	10
105	Solvation behavior of dipeptides of alanine in aqueous solutions of antibacterial drug ampicillin at different temperatures. <i>Thermochimica Acta</i> , <b>2013</b> , 571, 28-41	2.9	10
104	Study of thermodynamic properties of sodium dodecyl sulphate in aqueous solutions of alkoxyalkanols at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 221, 526-534	6	10
103	Studies on the interactions behaviour of polyhydroxy solutes d (+)-glucose and d (β)-fructose in aqueous triammonium citrate solutions over temperature range T = (288.15-308.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 119, 1-12	2.9	10
102	Mixing properties of binary liquid mixtures of dipropylene glycol dimethyl ether (DPGDME) with 2-propanol, 1-butanol and 2-butanol at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 276, 562-569	6	9
101	Applications of rice protein in nanomaterials synthesis, nanocolloids of rice protein, and bioapplicability. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 120, 394-404	7.9	9
100	Viscosities of Glycine and l-Alanine in (0.2, 0.4, 0.6, and 0.8) mol/kg Aqueous Dipotassium Hydrogen Phosphate Solutions at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 3416-3421	2.8	9
99	Thermodynamic study of N-acetyl glycine in aqueous tetraethylammonium iodide solutions in the temperature interval (288.15 to 308.15)K: Volumetric and acoustic study. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 94, 74-84	2.9	8
98	Volumetric and ultrasonic studies of solute-solute and solute-solvent interactions of N-acetyl glycine in aqueous sucrose solutions at different temperatures. <i>Thermochimica Acta</i> , <b>2014</b> , 589, 123-130	2.9	8

97	Synthesis and thermodynamics studies of ionic liquid 1-methyl-3-pentylimidazolium bromide ([C 5 mim][Br]) with amino acids ( l-cysteine and N-acetyl- l-cysteine) at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 111, 238-249	2.9	8
96	Viscometric studies of binary liquid mixtures of cyclopentane (1) + branched alkanols (2) at T = (298.15 and 308.15) K. <i>Journal of Molecular Liquids</i> , <b>2012</b> , 174, 63-69	6	8
95	Modulations in Self-Organization Properties of Surfactant in Aqueous Ionic Liquid Media. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2020</b> , 234, 1603-1621	3.1	8
94	Volumetric and ultrasonic study of polyethylene glycols in aqueous solutions of niacin at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 154, 106326	2.9	8
93	Modulating the mixed micellization of CTAB and an ionic liquid 1-hexadecyl-3-methylimidazolium bromide via varying physical states of ionic liquid. <i>RSC Advances</i> , <b>2016</b> , 6, 38238-38251	3.7	8
92	Volumetric and ultrasonic investigation of polyethylene glycols (PEG-200 and PEG-600) in aqueous solutions of sodium methylparaben at various temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 140, 105916	2.9	8
91	Temperature dependence of the volumetric and acoustic behaviour of aqueous mixtures of monosaccharides and trillithium citrate. <i>Journal of Chemical Thermodynamics</i> , <b>2017</b> , 113, 52-63	2.9	7
90	Molecular interactions of some non-essential amino acids in aqueous solutions of 1-methylimidazolium chloride at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 279, 711-718	6	7
89	Tweaking anisotropic gold nanostars: covariant control of a polymer/solvent mixture complex. <i>RSC Advances</i> , <b>2015</b> , 5, 5205-5212	3.7	7
88	Effect of proteinogenic amino acids l-serine/l-threonine on volumetric and acoustic behavior of aqueous 1-butyl-3-propyl imidazolium bromide at T=[(288.15, 298.15, 308.15, 318.15)]K. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 150, 106211	2.9	7
87	Volumetric and ultrasonic studies of molecular interactions of glycols in aqueous glutaraldehyde solutions at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 315, 113763	6	7
86	Analysing the molecular interactions of sucrose in aqueous triammonium citrate and trillithium citrate solutions at different temperatures T = (288.15, 318.15) K through volumetric and ultrasonic investigations. <i>Journal of Chemical Thermodynamics</i> , <b>2018</b> , 125, 17-31	2.9	7
85	Densities and Speeds of Sound for Sucrose in Aqueous Solutions of Ammonium Phosphate Salts at Different Temperatures through Density and Speed of Sound Measurements. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 3772-3780	2.8	7
84	Volumetric and Ultrasonic Studies of Molecular Interactions in n-Alkoxypropanols + Alkyl Acetates Mixtures at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2013</b> , 58, 3190-3200	2.8	7
83	Volumetric and acoustic studies of amino acids in aqueous ionic liquid solution. <i>Journal of Molecular Liquids</i> , <b>2017</b> , 242, 739-746	6	7
82	Densities and Speeds of Sound of Solutions of Glycine, l-Alanine, and l-Valine in Aqueous Ammonium Dihydrogen Phosphate at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 3138-3150	2.8	7
81	Study of Thermodynamic and Acoustic Properties of Niacin in Aqueous Hexylene Glycol and Propylene Glycol at Different Temperatures. <i>ACS Omega</i> , <b>2020</b> , 5, 32357-32365	3.9	7
80	Deciphering aggregation behavior and thermodynamic properties of anionic surfactant sodium hexadecyl sulfate in aqueous solutions of ionic liquids [C5mim][Br] and [C6mim][Br]. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 298, 111949	6	7



79	Effect of N-acetylglycine on volumetric and acoustic behaviour of aqueous tetrabutylammonium iodide solutions at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2016</b> , 96, 143-152	2.9	7
78	Temperature-dependent physicochemical studies of some glycols in aqueous d-mannitol solution. <i>Chemical Papers</i> , <b>2021</b> , 75, 1497-1506	1.9	7
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75	Application of the extended real associated solution (ERAS) model to excess molar volumes of binary mixtures of (alkoxyethanols+1-alkanol). <i>Journal of Molecular Liquids</i> , <b>2010</b> , 156, 154-164	6	6
74	Volumetric and ultrasonic studies of molecular interactions of glycols in aqueous Niacin (vitamin B3) at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 332, 115869	6	6
73	Temperature and concentration dependence towards physicochemical and FTIR spectral studies of glycine, L-alanine and L-valine in aqueous solutions of nortriptyline hydrochloride. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 130, 213-227	2.9	6
72	Effect of changing alkyl chain in imidazolium based ionic liquid on the micellization behavior of anionic surfactant sodium hexadecyl sulfate in aqueous media. <i>Journal of Dispersion Science and Technology</i> , <b>2021</b> , 42, 970-983	1.5	6
71	Ultrasonic and volumetric behaviour of glycols with sodium ethylparaben in aqueous medium from T = 293.15 to 308.15K at atmospheric pressure. <i>Results in Chemistry</i> , <b>2020</b> , 2, 100049	2.1	5
70	Study of interactions of N-acetyl glycine with glucose in aqueous solutions at various temperatures: A volumetric and ultrasonic study. <i>Journal of Molecular Liquids</i> , <b>2014</b> , 194, 198-205	6	5
69	Effect of Citrate Salts on the Volumetric and Ultrasonic Properties of Sucrose in Aqueous Solutions at Temperatures T = (288.15-318.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 3769-3783	2.8	5
68	Temperature dependent physicochemical and spectroscopic (FT-IR) studies of citrate salts (trilithium citrate and triammonium citrate) in aqueous ionic liquid [C4mim][BF4] (1-butyl-3-methylimidazolium tetrafluoroborate) solutions. <i>Journal of Molecular Liquids</i> , <b>2018</b> , 256, 148-162	6	4
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66	Exploration of solute-solvent interactions in aqueous mixtures of monosaccharides and triammonium citrate (TAC) at different temperatures: Volumetric and acoustic approach. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 139, 105877	2.9	4
65	Solute-Solvent Interactions of Alkyl Acetoacetates in Aqueous {1-Butyl-3-methylimidazolium Chloride [bmim][Cl]} Ionic Liquid Solutions in the Temperature Interval (288.15-308.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2014</b> , 59, 2367-2376	2.8	4
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62	Non-ideal behaviour of binary liquid mixtures and different approaches to calculate ideal expansibility. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2010</b> , 75, 187-200		4

61	Excess molar volumes and viscosities of binary mixtures of some n-alkoxyethanols with propylamine at 298.15 K. <i>Canadian Journal of Chemistry</i> , <b>2000</b> , 78, 427-435	0.9	4
60	Investigations on the micellization behavior and thermodynamic characteristics of synthesized surface active ionic liquids [C14mim][Br] and [C15mim][Br] in the presence of oral antidiabetic drug metformin hydrochloride. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 322, 114851	6	4
59	Aggregation Behavior of Mixed Micellar System of Dodecyl Sulfate-Based Surface-Active Ionic Liquids and Anionic Surfactant in Aqueous Media. <i>Journal of Surfactants and Detergents</i> , <b>2021</b> , 24, 209-219	4	4
58	Scrutinizing the Micellization Behaviour of 14-2-14 Gemini Surfactant and Tetradecyltrimethylammonium Bromide in Aqueous Solutions of Betaine Hydrochloride Drug. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 338, 116642	6	4
57	Properties of L-ascorbic acid in water and binary aqueous mixtures of D-glucose and D-fructose at different temperatures. <i>Russian Journal of Physical Chemistry A</i> , <b>2017</b> , 91, 2389-2396	0.7	3
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55	Thermodynamic and acoustical study of zinc oxide-nematic liquid crystals mixtures. <i>Journal of Molecular Liquids</i> , <b>2016</b> , 214, 145-148	6	3
54	Volumetric and acoustic studies of binary liquid mixtures of alkoxypropanols with methyl acetoacetate in the temperature interval 288.15-308.15K. <i>Journal of Molecular Liquids</i> , <b>2013</b> , 188, 96-103	6	3
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52	Thermodynamic Parameters of Binary Liquid Mixtures of Some n-Alkoxyethanols with Water at 298.15 K Deduced from Ultrasonic Speed and Viscosity Data. <i>Physics and Chemistry of Liquids</i> , <b>2003</b> , 41, 405-421	1.5	3
51	Effect of amino acids (glycine, l-alanine, l-valine and l-leucine) on volumetric and acoustic properties of aqueous 1-Butyl-3-propylimidazolium bromide at T = (288.15, 298.15, 308.15, 318.15) K. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 158, 106433	2.9	3
50	Apparent molar properties of glycols in methanol solutions of propyl 4-hydroxybenzoate (propylparaben) at T = (293.15 to 308.15) K: an acoustic and volumetric approach. <i>Physics and Chemistry of Liquids</i> , <b>2020</b> , 58, 803-819	1.5	3
49	Solvation properties of glycine and glycyglycine in aqueous 1-hexyl-3-methylimidazolium bromide solution at different temperatures. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 152, 106268	2.9	3
48	Unraveling the micellization behavior and thermodynamic characteristics of imidazolium-based ionic liquid in presence of vitamins thiamine hydrochloride and ascorbic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 630, 127563	5.1	3
47	Investigations on the temperature dependent volumetric and ultrasonic properties of structural isomers D(+)-glucose and D(-)-fructose in aqueous dipotassium oxalate solutions. <i>Journal of Chemical Thermodynamics</i> , <b>2019</b> , 138, 229-239	2.9	2
46	Thermophysical properties of alkyl acetates in aqueous solutions of ionic liquid {1-butyl-3-methylimidazolium bromide [bmim][Br]} at different temperatures. <i>Physics and Chemistry of Liquids</i> , <b>2015</b> , 53, 390-402	1.5	2
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41	Intermolecular investigation of polyethylene glycols with butyl paraben in methanol medium attributing volumetric, ultrasonic and thermo-physical properties. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 298, 112000	6	2
40	Exploration of the soluting-out effect of carbohydrates on the micellization and surface activity of long-chain imidazolium ionic liquid in the aqueous medium. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 319, 114269	6	2
39	Volumetric and acoustic properties of amino acids L-Leucine and L-Serine in aqueous solution of ammonium dihydrogen phosphate (ADP) at different temperatures and concentrations. <i>Journal of Chemical Thermodynamics</i> , <b>2021</b> , 155, 106350	2.9	2
38	Studies on volumetric and acoustic behavior of L-alanine and L-leucine in aqueous 1-dodecyl-3-methylimidazolium bromide ionic liquid solutions at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 342, 117022	6	2
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36	Studies on the interactional behaviour of binary liquid mixtures of tripropylene glycol monomethyl ether and butyl amines at different temperatures. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 313, 113448	6	1
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34	Self-Organization of Cationic Surfactant in Hydrophilic Ionic Liquid in Aqueous Media at Various Concentrations. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1531, 012099	0.3	1
33	Role of Gluten in Surface Chemistry: Nanometallic Bioconjugation of Hard, Medium, and Soft Wheat Protein. <i>Journal of Agricultural and Food Chemistry</i> , <b>2019</b> , 67, 7886-7897	5.7	1
32	Thermodynamics of various interactions in homologous series of polyethylene glycols in aqueous medium of d-panthenol at T = (288.15, 298.15, 308.15 and 318.15) K: a volumetric and acoustic approach. <i>Brazilian Journal of Chemical Engineering</i> , 1	1.7	1
31	Study of intermolecular interaction of binary mixture of adrenaline and KOH. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1531, 012015	0.3	1
30	Volumetric and Ultrasonic Studies of Molecular Interactions of PEG 400 and PEG 4000 in Aqueous Niacin Solutions at Different Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2021</b> , 66, 2391-2400	2.8	1
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22	Studies on thermodynamics of micellization of imidazolium-based surface-active ionic liquid [C15mim][Br] in aqueous media: Effect of D(+)-Xylose and D(+)-Glucose. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 117645	6	1
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20	A thermodynamic investigation of the effect of cationic structure on the self-aggregation behavior of Surface-Active ionic liquids in the presence of an amino acid. <i>Journal of Molecular Liquids</i> , <b>2022</b> , 354, 118904	6	1
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16	Volumetric and Acoustic Behavior of PEG-200 and PEG-600 in Aqueous D-Mannitol solutions at Different Temperatures. <i>Journal of Solution Chemistry</i> , <b>2021</b> , 50, 1079-1102	1.8	0
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