

# Tejwant Singh

## List of Publications by Citations

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85  
papers

2,728  
citations

30  
h-index

50  
g-index

87  
ext. papers

3,024  
ext. citations

4.4  
avg, IF

5.56  
L-index

#	Paper	IF	Citations
85	Aggregation behavior of ionic liquids in aqueous solutions: effect of alkyl chain length, cations, and anions. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7843-51	3.4	391
84	Static dielectric constant of room temperature ionic liquids: internal pressure and cohesive energy density approach. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 12968-72	3.4	172
83	Aggregation behavior of amino acid ionic liquid surfactants in aqueous media. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 13847-53	3.4	112
82	Ionic liquids induced structural changes of bovine serum albumin in aqueous media: a detailed physicochemical and spectroscopic study. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 11924-35	3.4	82
81	Micellization Behavior of Surface Active Ionic Liquids Having Aromatic Counterions in Aqueous Media. <i>Journal of Physical Chemistry B</i> , <b>2016</b> , 120, 1092-105	3.4	78
80	Cation-Anion-Water interactions in aqueous mixtures of imidazolium based ionic liquids. <i>Vibrational Spectroscopy</i> , <b>2011</b> , 55, 119-125	2.1	75
79	Micellar transitions in the aqueous solutions of a surfactant-like ionic liquid: 1-butyl-3-methylimidazolium octylsulfate. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 11728-35	3.6	74
78	Non-ideal behaviour of a room temperature ionic liquid in an alkoxyethanol or poly ethers at T=(298.15 to 318.15)K. <i>Journal of Chemical Thermodynamics</i> , <b>2008</b> , 40, 32-39	2.9	74
77	Self-aggregation of ionic liquids in aqueous media: A thermodynamic study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 318, 263-268	5.1	74
76	Fluorescence behavior and specific interactions of an ionic liquid in ethylene glycol derivatives. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 4079-86	3.4	71
75	Dissolution, regeneration and ion-gel formation of agarose in room-temperature ionic liquids. <i>Green Chemistry</i> , <b>2010</b> , 12, 1029	10	70
74	Task-specific, biodegradable amino acid ionic liquid surfactants. <i>ChemSusChem</i> , <b>2011</b> , 4, 604-8	8.3	67
73	Micellization behavior of morpholinium-based amide-functionalized ionic liquids in aqueous media. <i>Langmuir</i> , <b>2014</b> , 30, 9920-30	4	63
72	Effect of different synthetic routes on the structural, morphological and magnetic properties of Ce doped LaFeO <sub>3</sub> nanoparticles. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 625, 336-345	5.7	62
71	Temperature Dependence of Physical Properties of Imidazolium Based Ionic Liquids: Internal Pressure and Molar Refraction. <i>Journal of Solution Chemistry</i> , <b>2009</b> , 38, 1043-1053	1.8	59
70	Interaction of gelatin with room temperature ionic liquids: a detailed physicochemical study. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 8441-8	3.4	53
69	Physical and excess properties of a room temperature ionic liquid (1-methyl-3-octylimidazolium tetrafluoroborate) with n-alkoxyethanols (C <sub>1</sub> Em, m=1 to 3) at T=(298.15 to 318.15)K. <i>Journal of Chemical Thermodynamics</i> , <b>2008</b> , 40, 417-423	2.9	51

68	Ionic Liquid Surfactant Mediated Structural Transitions and Self-Assembly of Bovine Serum Albumin in Aqueous Media: Effect of Functionalization of Ionic Liquid Surfactants. <i>Journal of Physical Chemistry B</i> , <b>2015</b> , 119, 10573-85	3.4	48
67	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
66	Interfacial and aggregation behavior of aqueous mixtures of imidazolium based surface active ionic liquids and anionic surfactant sodium dodecylbenzenesulfonate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2015</b> , 472, 9-20	5.1	45
65	Effect of cationic head group on micellization behavior of new amide-functionalized surface active ionic liquids. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 26040-50	3.6	45
64	Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study. <i>Journal of Cleaner Production</i> , <b>2018</b> , 198, 693-703	10.3	45
63	Thermodynamic and spectroscopic studies on binary mixtures of imidazolium ionic liquids in ethylene glycol. <i>Journal of Chemical Thermodynamics</i> , <b>2012</b> , 44, 121-127	2.9	44
62	Thermodynamics of dilute aqueous solutions of imidazolium based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , <b>2011</b> , 43, 958-965	2.9	43
61	Volumetric behaviour of 1-Butyl-3-Methyl imidazolium hexafluorophosphate with ethylene glycol derivatives: Application of Prigogine-Flory-Patterson theory. <i>Journal of Molecular Liquids</i> , <b>2010</b> , 153, 117-123	6	40
60	Aqueous-mixed ionic liquid system: phase transitions and synthesis of gold nanocrystals. <i>Langmuir</i> , <b>2011</b> , 27, 9261-9	4	39
59	Effect of structural alteration of ionic liquid on their bulk and molecular level interactions with ethylene glycol. <i>Fluid Phase Equilibria</i> , <b>2013</b> , 358, 241-249	2.5	34
58	Aggregation behavior of non-cytotoxic ester functionalized morpholinium based ionic liquids in aqueous media. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 446, 263-71	9.3	34
57	Complexation of chitosan with surfactant like ionic liquids: molecular interactions and preparation of chitosan nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2013</b> , 407, 361-9	9.3	34
56	Effect of ethylene glycol and its derivatives on the aggregation behavior of an ionic liquid 1-butyl-3-methyl imidazolium octylsulfate in aqueous medium. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 1612-22	3.4	32
55	Effect of sodium sulfate on the gelling behavior of agarose and water structure inside gel networks. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 2519-25	3.4	30
54	Nicotine-based surface active ionic liquids: Synthesis, self-assembly and cytotoxicity studies. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 496, 278-289	9.3	28
53	Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 344-354	9.3	28
52	Polarity behaviour and specific interactions of imidazolium-based ionic liquids in ethylene glycol. <i>ChemPhysChem</i> , <b>2011</b> , 12, 836-45	3.2	28
51	Excess thermodynamic properties of binary mixtures of ionic liquid (1-butyl-3-methylimidazolium hexafluorophosphate) with alkoxyalkanols at several temperatures. <i>Journal of Molecular Liquids</i> , <b>2010</b> , 154, 41-46	6	26

50	Greener synthetic route for superparamagnetic and luminescent Fe <sub>2</sub> O <sub>3</sub> nanoparticles in binary mixtures of ionic liquid and ethylene glycol. <i>RSC Advances</i> , <b>2015</b> , 5, 51158-51168	3.7	24
49	Gelatin-Based Highly Stretchable, Self-Healing, Conducting, Multiadhesive, and Antimicrobial Ionogels Embedded with Ag <sub>2</sub> O Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 6568-6577	8.3	21
48	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes. <i>Langmuir</i> , <b>2019</b> , 35, 12215-12223	4	20
47	Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium-Based Amphiphilic Ionic Liquids in Aqueous Medium. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 12227-12239	3.4	20
46	Interactional behavior of the polyelectrolyte poly sodium 4-styrene sulphonate (NaPSS) with imidazolium based surface active ionic liquids in an aqueous medium. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23582-94	3.6	19
45	Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding Is Not Enough. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 6763-6770	3.4	18
44	Complexation, dimerisation and solubilisation of methylene blue in the presence of amphiphilic ionic liquids: a detailed spectroscopic and electrochemical study. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5667-77	3.6	18
43	Aggregation Behavior of Sodium Dioctyl Sulfosuccinate in Deep Eutectic Solvents and Their Mixtures with Water: An Account of Solvent Polarity, Cohesiveness, and Solvent Structure. <i>ACS Omega</i> , <b>2018</b> , 3, 13387-13398	3.9	15
42	Unprecedented self-assembled architectures of surface-active ionic liquids in aqueous medium. <i>Chemical Communications</i> , <b>2018</b> , 54, 2432-2435	5.8	14
41	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
40	Effect of alkyl chain functionalization of ionic liquid surfactants on the complexation and self-assembling behavior of polyampholyte gelatin in aqueous medium. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 25993-26009	3.6	14
39	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces. <i>Langmuir</i> , <b>2019</b> , 35, 4085-4093	4	14
38	Temperature Dependence of Physical Properties of Amino Acid Ionic Liquid Surfactants. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2012</b> , 57, 317-323	2.8	13
37	Self-assembly of azobenzene bilayer membranes in binary ionic liquid-water nanostructured media. <i>Langmuir</i> , <b>2014</b> , 30, 2376-84	4	11
36	Self-Aggregation Behavior of Dialkyl Imidazolium based Ionic Liquids in Aqueous Medium: Effect of Alkyl Chain Length. <i>ChemistrySelect</i> , <b>2016</b> , 1, 2458-2470	1.8	11
35	Facile and green one pot synthesis of zinc sulphide quantum dots employing zinc-based ionic liquids and their photocatalytic activity. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7407-7416	3.6	10
34	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5185-5189	13	10
33	Complexation Behavior of Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 2169-2181	3.4	10

32	Aqueous systems of a surface active ionic liquid having an aromatic anion: phase behavior, exfoliation of graphene flakes and its hydrogelation. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 22, 169-178	3.6	10
31	Modulation of Micellization Behavior of Cetyltrimethylammonium Bromide (CTAB) by Organic Anions in Low Concentration Regime. <i>Journal of Solution Chemistry</i> , <b>2015</b> , 44, 16-33	1.8	9
30	Complexation of triblock reverse copolymer 10R5 with surface active ionic liquids in aqueous medium: a physico-chemical study. <i>RSC Advances</i> , <b>2015</b> , 5, 16349-16360	3.7	9
29	Mn doping induced physico-chemical changes in LaCe ferrite nanofabricated by ionic liquid assisted hydrothermal route. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 701, 788-796	5.7	8
28	Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium. <i>Chemical Communications</i> , <b>2018</b> , 54, 7463-7466	5.8	8
27	Colloidal systems of surface active ionic liquids and sodium carboxymethyl cellulose: physicochemical investigations and preparation of magnetic nano-composites. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 18528-18538	3.6	8
26	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
25	Sustainable preparation of sunlight active FeO nanoparticles using iron containing ionic liquids for photocatalytic applications.. <i>RSC Advances</i> , <b>2019</b> , 9, 41803-41810	3.7	8
24	Synthesis and characterization of a tin(IV) antimonophosphate nano-composite membrane incorporating 1-dodecyl-3-methylimidazolium bromide ionic liquid. <i>RSC Advances</i> , <b>2017</b> , 7, 12561-12569	3.7	7
23	Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 3791-3800	3.4	7
22	Synthesis and complexation of a new caffeine based surface active ionic liquid with lysozyme in aqueous medium: Physicochemical, computational and antimicrobial studies. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 325, 115156	6	7
21	Sustainable preparation and enhanced photocatalytic activity of Ag/AgBr@G nanocomposite for degradation of water pollutants under visible light. <i>Applied Surface Science</i> , <b>2021</b> , 553, 149555	6.7	7
20	Ionic liquid assisted nanofabrication of ferromagnetic Co-doped LaCe ferrites. <i>RSC Advances</i> , <b>2015</b> , 5, 96799-96808	3.7	6
19	Ionic liquid-assisted preparation of ZnO nanostructures. <i>Nanomaterials and Energy</i> , <b>2012</b> , 1, 207-215	1.1	6
18	Effect of Ethylene Glycol and Its Derivatives on the Solubility Behavior of CaSO <sub>4</sub> ·2H <sub>2</sub> O in the Aqueous NaCl System and Physicochemical Solution Properties at 35 °C. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2010</b> , 55, 4704-4708	2.8	6
17	Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport.. <i>RSC Advances</i> , <b>2020</b> , 10, 7073-7082	3.7	5
16	Photon upconverting bioplastics with high efficiency and in-air durability. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 11655-11661	7.1	5
15	Concentrated aqueous dispersions of low-defect few-layer thick graphene using surface active ionic liquid for enhanced enzyme activity. <i>Materials Advances</i> , <b>2020</b> , 1, 1364-1370	3.3	4

14	Inner membrane complex 1l protein of Plasmodium falciparum links membrane lipids with cytoskeletal element $\beta$ -actin and its associated motor $\beta$ -myosin. <i>International Journal of Biological Macromolecules</i> , <b>2019</b> , 126, 673-684	7.9	4
13	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4770-4776	5.1	3
12	Biamphiphilic ionic liquid based aqueous microemulsions as an efficient catalytic medium for cytochrome. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 320-328	3.6	3
11	Modulation of morphological, optical and magnetic properties of Cr-doped La <sub>0.9</sub> Ce <sub>0.1</sub> FeO <sub>3</sub> nanoferrites synthesized by surface-active ionic liquid aided hydrothermal route. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	3
10	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media. <i>Chemical Communications</i> , <b>2019</b> , 55, 5459-5462	5.8	2
9	In situ preparation of a nanocomposite comprising graphene and Fe <sub>2</sub> O <sub>3</sub> nanospindles for the photo-degradation of antibiotics under visible light. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 15567-15573	3.6	2
8	Sustainable preparation of Fe(OH) <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub> nanoparticles employing Acacia catechu extract for efficient removal of chromium (VI) from aqueous solution. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2021</b> , 16, 100593	3.3	1
7	DES-N-doped oxygenated carbon dot colloidal solutions for light harvesting and bio-imaging applications. <i>Materials Advances</i> , <b>2020</b> , 1, 3476-3482	3.3	1
6	Spontaneous Fibrillation of Bovine Serum Albumin at Physiological Temperatures Promoted by Hydrolysis-Prone Ionic Liquids. <i>Langmuir</i> , <b>2021</b> , 37, 10319-10329	4	1
5	Modulation of micellization behavior of imidazolium based surface active ionic liquids by aromatic anions in aqueous medium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2021</b> , 630, 127588	5.1	1
4	Volumetric and compressibility studies on aqueous mixtures of deep eutectic solvents based on choline chloride and carboxylic acids at different temperatures: Experimental, theoretical and computational approach. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 117212	6	0
3	Preparation of cellulose acetate-Sn(IV) iodophosphate nanocomposite for efficient and selective removal of Hg <sup>2+</sup> and Mn <sup>2+</sup> ions from aqueous solution. <i>Environmental Nanotechnology, Monitoring and Management</i> , <b>2021</b> , 16, 100478	3.3	0
2	Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light. <i>Green Chemistry</i> , <b>2022</b> , 24, 2953-2961	10	0
1	Purification of Metagenomic DNA Using Novel Nanocomposite Titanium Dioxide-polyaniline Tin (IV) Antimonophosphate, Insights into the Mechanism Underlying Purification Process. <i>Current Biotechnology</i> , <b>2019</b> , 7, 349-354	0.6	