Tejwant Singh

List of Publications by Year in Descending Order

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	Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light. *Green Chemistry*, **2022**, 24, 2953-2961	10	0
84	Sustainable preparation of Fe(OH)3 and □Fe2O3 nanoparticles employing Acacia catechu extract for efficient removal of chromium (VI) from aqueous solution. *Environmental Nanotechnology, Monitoring and Management*, **2021**, 16, 100593	3.3	1
83	Synthesis and complexation of a new caffeine based surface active ionic liquid with lysozyme in aqueous medium: Physicochemical, computational and antimicrobial studies. *Journal of Molecular Liquids*, **2021**, 325, 115156	6	7
82	Biamphiphilic ionic liquid based aqueous microemulsions as an efficient catalytic medium for cytochrome. *Physical Chemistry Chemical Physics*, **2021**, 23, 320-328	3.6	3
81	Modulation of morphological, optical and magnetic properties of Cr-doped La0.9Ce0.1FeO3 nanoferrites synthesized by surface-active ionic liquid aided hydrothermal route. *Applied Physics A: Materials Science and Processing*, **2021**, 127, 1	2.6	3
80	Photon upconverting bioplastics with high efficiency and in-air durability. *Journal of Materials Chemistry C*, **2021**, 9, 11655-11661	7.1	5
79	Sustainable preparation and enhanced photocatalytic activity of Ag/AgBr@G nanocomposite for degradation of water pollutants under visible light. *Applied Surface Science*, **2021**, 553, 149555	6.7	7
78	Spontaneous Fibrillation of Bovine Serum Albumin at Physiological Temperatures Promoted by Hydrolysis-Prone Ionic Liquids. *Langmuir*, **2021**, 37, 10319-10329	4	1
77	Modulation of micellization behavior of imidazolium based surface active ionic liquids by aromatic anions in aqueous medium. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 630, 127588	5.1	1
76	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. *Journal of Molecular Liquids*, **2021**, 340, 117212	6	0
75	Preparation of cellulose acetate-Sn(IV) iodophosphate nanocomposite for efficient and selective removal of Hg2+ and Mn2+ ions from aqueous solution. *Environmental Nanotechnology, Monitoring and Management*, **2021**, 16, 100478	3.3	0
74	Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport.. *RSC Advances*, **2020**, 10, 7073-7082	3.7	5
73	Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium. *Journal of Physical Chemistry B*, **2020**, 124, 3791-3800	3.4	7
72	DES-N-doped oxygenated carbon dot colloidal solutions for light harvesting and bio-imaging applications. *Materials Advances*, **2020**, 1, 3476-3482	3.3	1
71	One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid. *Nanoscale Advances*, **2020**, 2, 4770-4776	5.1	3
70	Concentrated aqueous dispersions of low-defect few-layer thick graphene using surface active ionic liquid for enhanced enzyme activity. *Materials Advances*, **2020**, 1, 1364-1370	3.3	4
69	In situ preparation of a nanocomposite comprising graphene and □Fe2O3 nanospindles for the photo-degradation of antibiotics under visible light. *New Journal of Chemistry*, **2020**, 44, 15567-15573	3.6	2

68	Purification of Metagenomic DNA Using Novel Nanocomposite Titanium Dioxide-polyaniline Tin (1V) Antimonophosphate, Insights into the Mechanism Underlying Purification Process. *Current Biotechnology*, **2019**, 7, 349-354	0.6	
67	Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media. *Chemical Communications*, **2019**, 55, 5459-5462	5.8	2
66	A new sustainable approach towards preparation of sunlight active Ag/AgBr Janus nanoparticles using non-toxic surface active ionic liquid. *Journal of Materials Chemistry A*, **2019**, 7, 5185-5189	13	10
65	Complexation Behavior of β-Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach. *Journal of Physical Chemistry B*, **2019**, 123, 2169-2181	3.4	10
64	Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes. *Langmuir*, **2019**, 35, 12215-12223	4	20
63	Aqueous systems of a surface active ionic liquid having an aromatic anion: phase behavior, exfoliation of graphene flakes and its hydrogelation. *Physical Chemistry Chemical Physics*, **2019**, 22, 169-178	3.6	10
62	Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces. *Langmuir*, **2019**, 35, 4085-4093	4	14
61	Sustainable preparation of sunlight active α-FeO nanoparticles using iron containing ionic liquids for photocatalytic applications.. *RSC Advances*, **2019**, 9, 41803-41810	3.7	8
60	Inner membrane complex 1l protein of Plasmodium falciparum links membrane lipids with cytoskeletal element Factin and its associated motor Pmyosin. *International Journal of Biological Macromolecules*, **2019**, 126, 673-684	7.9	4
59	Unprecedented self-assembled architectures of surface-active ionic liquids in aqueous medium. *Chemical Communications*, **2018**, 54, 2432-2435	5.8	14
58	Thermally stable microemulsions comprising imidazolium based surface active ionic liquids, non-polar ionic liquid and ethylene glycol as polar phase. *Journal of Colloid and Interface Science*, **2018**, 511, 344-354	9.3	28
57	Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding Is Not Enough. *Journal of Physical Chemistry B*, **2018**, 122, 6763-6770	3.4	18
56	Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium. *Chemical Communications*, **2018**, 54, 7463-7466	5.8	8
55	Colloidal systems of surface active ionic liquids and sodium carboxymethyl cellulose: physicochemical investigations and preparation of magnetic nano-composites. *Physical Chemistry Chemical Physics*, **2018**, 20, 18528-18538	3.6	8
54	Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium-Based Biamphiphilic Ionic Liquids in Aqueous Medium. *Journal of Physical Chemistry B*, **2018**, 122, 12227-12239	3.4	20
53	Aggregation Behavior of Sodium Dioctyl Sulfosuccinate in Deep Eutectic Solvents and Their Mixtures with Water: An Account of Solvent Polarity, Cohesiveness, and Solvent Structure. *ACS Omega*, **2018**, 3, 13387-13398	3.9	15
52	Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study. *Journal of Cleaner Production*, **2018**, 198, 693-703	10.3	45
51	Mn doping induced physico-chemical changes in LaCe ferrite nanofabricated by ionic liquid assisted hydrothermal route. *Journal of Alloys and Compounds*, **2017**, 701, 788-796	5.7	8

50	Nicotine-based surface active ionic liquids: Synthesis, self-assembly and cytotoxicity studies. *Journal of Colloid and Interface Science*, **2017**, 496, 278-289	9.3	28
49	Facile and green one pot synthesis of zinc sulphide quantum dots employing zinc-based ionic liquids and their photocatalytic activity. *New Journal of Chemistry*, **2017**, 41, 7407-7416	3.6	10
48	Synthesis and characterization of a tin(IV) antimonophosphate nano-composite membrane incorporating 1-dodecyl-3-methylimidazolium bromide ionic liquid. *RSC Advances*, **2017**, 7, 12561-12569	3.7	7
47	Gelatin-Based Highly Stretchable, Self-Healing, Conducting, Multiadhesive, and Antimicrobial Ionogels Embedded with Ag2O Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 6568-6577	8.3	21
46	Micellization Behavior of Surface Active Ionic Liquids Having Aromatic Counterions in Aqueous Media. *Journal of Physical Chemistry B*, **2016**, 120, 1092-105	3.4	78
45	Modulating the mixed micellization of CTAB and an ionic liquid 1-hexadecyl-3-methylimidazollium bromide via varying physical states of ionic liquid. *RSC Advances*, **2016**, 6, 38238-38251	3.7	8
44	Effect of alkyl chain functionalization of ionic liquid surfactants on the complexation and self-assembling behavior of polyampholyte gelatin in aqueous medium. *Physical Chemistry Chemical Physics*, **2016**, 18, 25993-26009	3.6	14
43	Self□aggregation Behavior of Dialkyl Imidazolium based Ionic Liquids in Aqueous Medium: Effect of Alkyl Chain Length. *ChemistrySelect*, **2016**, 1, 2458-2470	1.8	11
42	Modulation of Micellization Behavior of Cetyltrimethylammonium Bromide (CTAB) by Organic Anions in Low Concentration Regime. *Journal of Solution Chemistry*, **2015**, 44, 16-33	1.8	9
41	Ionic Liquid Surfactant Mediated Structural Transitions and Self-Assembly of Bovine Serum Albumin in Aqueous Media: Effect of Functionalization of Ionic Liquid Surfactants. *Journal of Physical Chemistry B*, **2015**, 119, 10573-85	3.4	48
40	Interfacial and aggregation behavior of aqueous mixtures of imidazolium based surface active ionic liquids and anionic surfactant sodium dodecylbenzenesulfonate. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2015**, 472, 9-20	5.1	45
39	Ionic liquid assisted nanofabrication of ferromagnetic Co-doped La□e ferrites. *RSC Advances*, **2015**, 5, 96799-96808	3.7	6
38	Interactional behavior of the polyelectrolyte poly sodium 4-styrene sulphonate (NaPSS) with imidazolium based surface active ionic liquids in an aqueous medium. *Physical Chemistry Chemical Physics*, **2015**, 17, 23582-94	3.6	19
37	Effect of different synthetic routes on the structural, morphological and magnetic properties of Ce doped LaFeO3 nanoparticles. *Journal of Alloys and Compounds*, **2015**, 625, 336-345	5.7	62
36	Greener synthetic route for superparamagnetic and luminescent □Fe2O3 nanoparticles in binary mixtures of ionic liquid and ethylene glycol. *RSC Advances*, **2015**, 5, 51158-51168	3.7	24
35	Aggregation behavior of non-cytotoxic ester functionalized morpholinium based ionic liquids in aqueous media. *Journal of Colloid and Interface Science*, **2015**, 446, 263-71	9.3	34
34	Complexation of triblock reverse copolymer 10R5 with surface active ionic liquids in aqueous medium: a physico-chemical study. *RSC Advances*, **2015**, 5, 16349-16360	3.7	9
33	Complexation, dimerisation and solubilisation of methylene blue in the presence of biamphiphilic ionic liquids: a detailed spectroscopic and electrochemical study. *Physical Chemistry Chemical Physics*, **2014**, 16, 5667-77	3.6	18

32	Self-assembly of azobenzene bilayer membranes in binary ionic liquid-water nanostructured media. *Langmuir*, **2014**, 30, 2376-84	4	11
31	Micellization behavior of morpholinium-based amide-functionalized ionic liquids in aqueous media. *Langmuir*, **2014**, 30, 9920-30	4	63
30	Effect of cationic head group on micellization behavior of new amide-functionalized surface active ionic liquids. *Physical Chemistry Chemical Physics*, **2014**, 16, 26040-50	3.6	45
29	Effect of structural alteration of ionic liquid on their bulk and molecular level interactions with ethylene glycol. *Fluid Phase Equilibria*, **2013**, 358, 241-249	2.5	34
28	Complexation of chitosan with surfactant like ionic liquids: molecular interactions and preparation of chitosan nanoparticles. *Journal of Colloid and Interface Science*, **2013**, 407, 361-9	9.3	34
27	Thermodynamic and spectroscopic studies on binary mixtures of imidazolium ionic liquids in ethylene glycol. *Journal of Chemical Thermodynamics*, **2012**, 44, 121-127	2.9	44
26	Effect of ethylene glycol and its derivatives on the aggregation behavior of an ionic liquid 1-butyl-3-methyl imidazolium octylsulfate in aqueous medium. *Journal of Physical Chemistry B*, **2012**, 116, 1612-22	3.4	32
25	Temperature Dependence of Physical Properties of Amino Acid Ionic Liquid Surfactants. *Journal of Chemical & Engineering Data*, **2012**, 57, 317-323	2.8	13
24	Ionic liquid-assisted preparation of ZnO nanostructures. *Nanomaterials and Energy*, **2012**, 1, 207-215	1.1	6
23	Ionic liquids induced structural changes of bovine serum albumin in aqueous media: a detailed physicochemical and spectroscopic study. *Journal of Physical Chemistry B*, **2012**, 116, 11924-35	3.4	82
22	Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at T = (298.15, 308.15, and 318.15) K. *Journal of Chemical & Engineering Data*, **2011**, 56, 2669-2676	2.8	14
21	Cation□anion□water interactions in aqueous mixtures of imidazolium based ionic liquids. *Vibrational Spectroscopy*, **2011**, 55, 119-125	2.1	75
20	Polarity behaviour and specific interactions of imidazolium-based ionic liquids in ethylene glycol. *ChemPhysChem*, **2011**, 12, 836-45	3.2	28
19	Task-specific, biodegradable amino acid ionic liquid surfactants. *ChemSusChem*, **2011**, 4, 604-8	8.3	67
18	Aggregation behavior of amino acid ionic liquid surfactants in aqueous media. *Journal of Physical Chemistry B*, **2011**, 115, 13847-53	3.4	112
17	Aqueous-mixed ionic liquid system: phase transitions and synthesis of gold nanocrystals. *Langmuir*, **2011**, 27, 9261-9	4	39
16	Thermodynamics of dilute aqueous solutions of imidazolium based ionic liquids. *Journal of Chemical Thermodynamics*, **2011**, 43, 958-965	2.9	43
15	Effect of Ethylene Glycol and Its Derivatives on the Solubility Behavior of CaSO4□2H2O in the Aqueous NaCl System and Physicochemical Solution Properties at 35 □C. *Journal of Chemical & Engineering Data*, **2010**, 55, 4704-4708	2.8	6

14	Interaction of gelatin with room temperature ionic liquids: a detailed physicochemical study. *Journal of Physical Chemistry B*, **2010**, 114, 8441-8	3.4	53
13	Dissolution, regeneration and ion-gel formation of agarose in room-temperature ionic liquids. *Green Chemistry*, **2010**, 12, 1029	10	70
12	Micellar transitions in the aqueous solutions of a surfactant-like ionic liquid: 1-butyl-3-methylimidazolium octylsulfate. *Physical Chemistry Chemical Physics*, **2010**, 12, 11728-35	3.6	74
11	Volumetric behaviour of 1-Butyl-3-Methyl imidazolium hexafluorophosphate with ethylene glycol derivatives: Application of Prigogine-Flory-Patterson theory. *Journal of Molecular Liquids*, **2010**, 153, 117-123	6	40
10	Excess thermodynamic properties of binary mixtures of ionic liquid (1-butyl-3-methylimidazolium hexafluorophosphate) with alkoxyalkanols at several temperatures. *Journal of Molecular Liquids*, **2010**, 154, 41-46	6	26
9	Temperature Dependence of Physical Properties of Imidazolium Based Ionic Liquids: Internal Pressure and Molar Refraction. *Journal of Solution Chemistry*, **2009**, 38, 1043-1053	1.8	59
8	Non-ideal behaviour of imidazolium based room temperature ionic liquids in ethylene glycol at T= (298.15 to 318.15) K. *Journal of Chemical Thermodynamics*, **2009**, 41, 717-723	2.9	48
7	Effect of sodium sulfate on the gelling behavior of agarose and water structure inside gel networks. *Journal of Physical Chemistry B*, **2009**, 113, 2519-25	3.4	30
6	Fluorescence behavior and specific interactions of an ionic liquid in ethylene glycol derivatives. *Journal of Physical Chemistry B*, **2008**, 112, 4079-86	3.4	71
5	Static dielectric constant of room temperature ionic liquids: internal pressure and cohesive energy density approach. *Journal of Physical Chemistry B*, **2008**, 112, 12968-72	3.4	172
4	Physical and excess properties of a room temperature ionic liquid (1-methyl-3-octylimidazolium tetrafluoroborate) with n-alkoxyethanols (C1Em, m=1 to 3) at T=(298.15 to 318.15)K. *Journal of Chemical Thermodynamics*, **2008**, 40, 417-423	2.9	51
3	Non-ideal behaviour of a room temperature ionic liquid in an alkoxyethanol or poly ethers at T=(298.15 to 318.15)K. *Journal of Chemical Thermodynamics*, **2008**, 40, 32-39	2.9	74
2	Self-aggregation of ionic liquids in aqueous media: A thermodynamic study. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 318, 263-268	5.1	74
1	Aggregation behavior of ionic liquids in aqueous solutions: effect of alkyl chain length, cations, and anions. *Journal of Physical Chemistry B*, **2007**, 111, 7843-51	3.4	391