

# Tejwant Singh

## List of Publications by Year in descending order

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86  
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117571

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| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Aggregation Behavior of Ionic Liquids in Aqueous Solutions: Effect of Alkyl Chain Length, Cations, and Anions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7843-7851.  | 1.2 | 427       |
| 2  | Static Dielectric Constant of Room Temperature Ionic Liquids: Internal Pressure and Cohesive Energy Density Approach. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12968-12972.   | 1.2 | 196       |
| 3  | Aggregation Behavior of Amino Acid Ionic Liquid Surfactants in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2011, 115, 13847-13853.   | 1.2 | 121       |
| 4  | Micellization Behavior of Surface Active Ionic Liquids Having Aromatic Counterions in Aqueous Media. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1092-1105.  | 1.2 | 98        |
| 5  | 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> , 2012, 116, 11924-11935.  | 1.2 | 96        |
| 6  | 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> , 2015, 625, 336-345.   | 2.8 | 83        |
| 7  | 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> , 2008, 40, 32-39.   | 1.0 | 82        |
| 8  | Dissolution, regeneration and ion-gel formation of agarose in room-temperature ionic liquids. <i>Green Chemistry</i> , 2010, 12, 1029.   | 4.6 | 81        |
| 9  | Self-aggregation of ionic liquids in aqueous media: A thermodynamic study. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 318, 263-268.   | 2.3 | 80        |
| 10 | Cation-anion-water interactions in aqueous mixtures of imidazolium based ionic liquids. <i>Vibrational Spectroscopy</i> , 2011, 55, 119-125.   | 1.2 | 80        |
| 11 | Task-specific, Biodegradable Amino Acid Ionic Liquid Surfactants. <i>ChemSusChem</i> , 2011, 4, 604-608.   | 3.6 | 80        |
| 12 | Micellar transitions in the aqueous solutions of a surfactant-like ionic liquid: 1-butyl-3-methylimidazolium octylsulfate. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11728.   | 1.3 | 77        |
| 13 | Micellization Behavior of Morpholinium-Based Amide-Functionalized Ionic Liquids in Aqueous Media. <i>Langmuir</i> , 2014, 30, 9920-9930.   | 1.6 | 76        |
| 14 | Fluorescence Behavior and Specific Interactions of an Ionic Liquid in Ethylene Glycol Derivatives. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4079-4086.  | 1.2 | 74        |
| 15 | Electrocoagulation technology for high strength arsenic wastewater: Process optimization and mechanistic study. <i>Journal of Cleaner Production</i> , 2018, 198, 693-703.   | 4.6 | 74        |
| 16 | Temperature Dependence of Physical Properties of Imidazolium Based Ionic Liquids: Internal Pressure and Molar Refraction. <i>Journal of Solution Chemistry</i> , 2009, 38, 1043-1053.  | 0.6 | 63        |
| 17 | Interaction of Gelatin with Room Temperature Ionic Liquids: A Detailed Physicochemical Study. <i>Journal of Physical Chemistry B</i> , 2010, 114, 8441-8448.   | 1.2 | 58        |
| 18 | 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> , 2015, 472, 9-20. | 2.3 | 56        |

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|----|---|-----|-----------|
| 19 | 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> , 2015, 119, 10573-10585. | 1.2 | 55        |
| 20 | Physical and excess properties of a room temperature ionic liquid (1-methyl-3-octylimidazolium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70 Thermodynamics, 2008, 40, 417-423.  | 1.0 | 54        |
| 21 | Effect of cationic head group on micellization behavior of new amide-functionalized surface active ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26040-26050.   | 1.3 | 54        |
| 22 | 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> , 2009, 41, 717-723.   | 1.0 | 52        |
| 23 | Thermodynamics of dilute aqueous solutions of imidazolium based ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2011, 43, 958-965.   | 1.0 | 49        |
| 24 | 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> , 2010, 153, 117-123.                         | 2.3 | 47        |
| 25 | Aggregation behavior of non-cytotoxic ester functionalized morpholinium based ionic liquids in aqueous media. <i>Journal of Colloid and Interface Science</i> , 2015, 446, 263-271.   | 5.0 | 45        |
| 26 | Thermodynamic and spectroscopic studies on binary mixtures of imidazolium ionic liquids in ethylene glycol. <i>Journal of Chemical Thermodynamics</i> , 2012, 44, 121-127.  | 1.0 | 44        |
| 27 | Effect of structural alteration of ionic liquid on their bulk and molecular level interactions with ethylene glycol. <i>Fluid Phase Equilibria</i> , 2013, 358, 241-249.  | 1.4 | 44        |
| 28 | Complexation of chitosan with surfactant like ionic liquids: Molecular interactions and preparation of chitosan nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 361-369.  | 5.0 | 42        |
| 29 | Aqueous-Mixed Ionic Liquid System: Phase Transitions and Synthesis of Gold Nanocrystals. <i>Langmuir</i> , 2011, 27, 9261-9269.   | 1.6 | 41        |
| 30 | Nicotine-based surface active ionic liquids: Synthesis, self-assembly and cytotoxicity studies. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 278-289.   | 5.0 | 41        |
| 31 | 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> , 2018, 511, 344-354.                   | 5.0 | 41        |
| 32 | 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> , 2017, 5, 6568-6577.                   | 3.2 | 40        |
| 33 | Effect of Sodium Sulfate on the Gelling Behavior of Agarose and Water Structure Inside the Gel Networks. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2519-2525.   | 1.2 | 37        |
| 34 | Effect of the Alkyl Chain Length of Amphiphilic Ionic Liquids on the Structure and Dynamics of Model Lipid Membranes. <i>Langmuir</i> , 2019, 35, 12215-12223.  | 1.6 | 37        |
| 35 | 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> , 2012, 116, 1612-1622.                      | 1.2 | 35        |
| 36 | Polarity Behaviour and Specific Interactions of Imidazolium-Based Ionic Liquids in Ethylene Glycol. <i>ChemPhysChem</i> , 2011, 12, 836-845.  | 1.0 | 30        |

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|----|--|-----|-----------|
| 37 | Greener synthetic route for superparamagnetic and luminescent $\text{Fe}_2\text{O}_3$ nanoparticles in binary mixtures of ionic liquid and ethylene glycol. RSC Advances, 2015, 5, 51158-51168.                              | 1.7 | 29        |
| 38 | 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.     | 1.3 | 28        |
| 39 | Excess thermodynamic properties of binary mixtures of ionic liquid (1-butyl-3-methylimidazolium) Tj ETQq1 1 0.784314 rgBT /Overloc 2010, 154, 41-46.   | 2.3 | 27        |
| 40 | Hydrophobically Driven Morphologically Diverse Self-Assembled Architectures of Deoxycholate and Imidazolium-Based Biampiphilic Ionic Liquids in Aqueous Medium. Journal of Physical Chemistry B, 2018, 122, 12227-12239.     | 1.2 | 26        |
| 41 | Aggregation Behavior of Sodium Dioctyl Sulfosuccinate in Deep Eutectic Solvents and Their Mixtures with Water: An Account of Solvent's Polarity, Cohesiveness, and Solvent Structure. ACS Omega, 2018, 3, 13387-13398.       | 1.6 | 25        |
| 42 | Amphiphilic Ionic Liquid-Induced Membrane Permeabilization: Binding Is Not Enough. Journal of Physical Chemistry B, 2018, 122, 6763-6770.  | 1.2 | 25        |
| 43 | 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, 23582-23594. | 1.3 | 20        |
| 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. | 1.3 | 20        |
| 45 | Thermally Stable Ionic Liquid-Based Microemulsions for High-Temperature Stabilization of Lysozyme at Nanointerfaces. Langmuir, 2019, 35, 4085-4093.  | 1.6 | 20        |
| 46 | 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.                                 | 3.1 | 20        |
| 47 | Antimicrobial Colloidal Complexes of Lysozyme with Bio-Based Surface Active Ionic Liquids in Aqueous Medium. Journal of Physical Chemistry B, 2020, 124, 3791-3800.  | 1.2 | 18        |
| 48 | Temperature Dependence of Physical Properties of Amino Acid Ionic Liquid Surfactants. Journal of Chemical & Engineering Data, 2012, 57, 317-323.   | 1.0 | 17        |
| 49 | Self-agggregation Behavior of Dialkyl Imidazolium based Ionic Liquids in Aqueous Medium: Effect of Alkyl Chain Length. ChemistrySelect, 2016, 1, 2458-2470.  | 0.7 | 16        |
| 50 | Complexation Behavior of $\beta$ -Lactoglobulin with Surface Active Ionic Liquids in Aqueous Solutions: An Experimental and Computational Approach. Journal of Physical Chemistry B, 2019, 123, 2169-2181.                   | 1.2 | 16        |
| 51 | 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.  | 1.4 | 15        |
| 52 | Unprecedented self-assembled architectures of surface-active ionic liquids in aqueous medium. Chemical Communications, 2018, 54, 2432-2435.  | 2.2 | 15        |
| 53 | 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.                             | 5.2 | 15        |
| 54 | Volumetric and Surface Properties of Aqueous Mixtures of Polyethers at $T = (298.15, 308.15, \text{ and } T_j \text{ ETQq0 Q0 rgBT /Overlock 10}$  | 1.0 | 14        |

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|----|---|-----|-----------|
| 55 | Modulation of Micellization Behavior of Cetyltrimethylammonium Bromide (CTAB) by Organic Anions in Low Concentration Regime. <i>Journal of Solution Chemistry</i> , 2015, 44, 16-33.  | 0.6 | 14        |
| 56 | Aqueous colloidal systems of bovine serum albumin and functionalized surface active ionic liquids for material transport. <i>RSC Advances</i> , 2020, 10, 7073-7082.  | 1.7 | 14        |
| 57 | Self-Assembly of Azobenzene Bilayer Membranes in Binary Ionic Liquidâ€“Water Nanostructured Media. <i>Langmuir</i> , 2014, 30, 2376-2384.   | 1.6 | 13        |
| 58 | Mn doping induced physico-chemical changes in La Ce ferrite nanofabricated by ionic liquid assisted hydrothermal route. <i>Journal of Alloys and Compounds</i> , 2017, 701, 788-796.  | 2.8 | 13        |
| 59 | Photon upconverting bioplastics with high efficiency and in-air durability. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11655-11661.   | 2.7 | 13        |
| 60 | 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> , 2016, 6, 38238-38251.   | 1.7 | 12        |
| 61 | 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> , 2018, 20, 18528-18538.   | 1.3 | 12        |
| 62 | 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> , 2021, 325, 115156.  | 2.3 | 12        |
| 63 | Complexation of triblock reverse copolymer 10R5 with surface active ionic liquids in aqueous medium: a physico-chemical study. <i>RSC Advances</i> , 2015, 5, 16349-16360.  | 1.7 | 11        |
| 64 | Sustainable preparation of sunlight active $\text{Fe}_2\text{O}_3$ nanoparticles using iron containing ionic liquids for photocatalytic applications. <i>RSC Advances</i> , 2019, 9, 41803-41810.   | 1.7 | 11        |
| 65 | 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> , 2020, 22, 169-178.  | 1.3 | 11        |
| 66 | Ionic liquid-assisted preparation of ZnO nanostructures. <i>Nanomaterials and Energy</i> , 2012, 1, 207-215.  | 0.1 | 9         |
| 67 | Luminescent micellar nano-interfaces of surface active ionic liquid for the selective recognition of ADP in aqueous medium. <i>Chemical Communications</i> , 2018, 54, 7463-7466.   | 2.2 | 9         |
| 68 | 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> , 2021, 340, 117212. | 2.3 | 9         |
| 69 | Synthesis and characterization of a tin ( $\text{Sn}$ ) antimonophosphate nano-composite membrane incorporating 1-dodecyl-3-methylimidazolium bromide ionic liquid. <i>RSC Advances</i> , 2017, 7, 12561-12569.   | 1.7 | 8         |
| 70 | Concentrated aqueous dispersions of low-defect few-layer thick graphene using surface active ionic liquid for enhanced enzyme activity. <i>Materials Advances</i> , 2020, 1, 1364-1370.   | 2.6 | 8         |
| 71 | Biamphiphilic ionic liquid based aqueous microemulsions as an efficient catalytic medium for cytochrome c. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 320-328.  | 1.3 | 8         |
| 72 | Ionic liquid assisted nanofabrication of ferromagnetic Co-doped Laâ€“Ce ferrites. <i>RSC Advances</i> , 2015, 5, 96799-96808.   | 1.7 | 7         |

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|----|--|-----|-----------|
| 73 | 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> , 2010, 55, 4704-4708.                     | 1.0 | 6         |
| 74 | Spontaneous Fibrillation of Bovine Serum Albumin at Physiological Temperatures Promoted by Hydrolysis-Prone Ionic Liquids. <i>Langmuir</i> , 2021, 37, 10319-10329.  | 1.6 | 5         |
| 75 | Inner membrane complex 11 protein of Plasmodium falciparum links membrane lipids with cytoskeletal element $\beta$ -actin <sup>™</sup> and its associated motor $\beta$ -myosin <sup>™</sup> . <i>International Journal of Biological Macromolecules</i> , 2019, 126, 673-684.             | 3.6 | 4         |
| 76 | DES-N-doped oxygenated carbon dot colloidal solutions for light harvesting and bio-imaging applications. <i>Materials Advances</i> , 2020, 1, 3476-3482.   | 2.6 | 4         |
| 77 | 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> , 2021, 630, 127588.  | 2.3 | 4         |
| 78 | Sustainable preparation of Fe(OH) <sub>3</sub> and $\beta$ -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> , 2021, 16, 100593. | 1.7 | 4         |
| 79 | Zinc chloride promoted the inimitable dissolution and degradation of polyethylene in a deep eutectic solvent under white light. <i>Green Chemistry</i> , 2022, 24, 2953-2961.  | 4.6 | 4         |
| 80 | One-pot sustainable preparation of sunlight active ZnS@graphene nano-composites using a Zn containing surface active ionic liquid. <i>Nanoscale Advances</i> , 2020, 2, 4770-4776.   | 2.2 | 3         |
| 81 | In situ preparation of a nanocomposite comprising graphene and $\beta$ -Fe <sub>2</sub> O <sub>3</sub> nanospindles for the photo-degradation of antibiotics under visible light. <i>New Journal of Chemistry</i> , 2020, 44, 15567-15573.   | 1.4 | 3         |
| 82 | 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> , 2021, 127, 1. | 1.1 | 3         |
| 83 | Polymeric Precipitation Inhibitor Based Supersaturable Self-microemulsifying Drug Delivery System of Canagliflozin: Optimization and Evaluation. <i>Current Drug Delivery</i> , 2021, 18, .  | 0.8 | 3         |
| 84 | 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> , 2021, 16, 100478.                            | 1.7 | 3         |
| 85 | Liquid crystalline microspheres of azobenzene amphiphiles formed by thermally induced pH changes in binary water-hydrolytic ionic liquid media. <i>Chemical Communications</i> , 2019, 55, 5459-5462.  | 2.2 | 2         |
| 86 | Purification of Metagenomic DNA Using Novel Nanocomposite Titanium Dioxide-polyaniline Tin (IV) Antimonophosphate, Insights into the Mechanism Underlying Purification Process. <i>Current Biotechnology</i> , 2019, 7, 349-354.   | 0.2 | 0         |