# Beheshteh Sohrabi

List of Publications by Year
in descending order

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|---|---|---|---|
| 55<br>papers | 1,366<br>citations | 304701<br>22<br>h-index | 361001<br>35<br>g-index |
| 55<br>all docs | 55<br>docs citations | 55<br>times ranked | 1545<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Molecular Interactions of Cationic and Anionic Surfactants in Mixed Monolayers and Aggregates. Journal of Physical Chemistry B, 2008, 112, 14869-14876. | 2.6 | 145 |
| 2 | Superhydrophobicity: advanced biological and biomedical applications. Biomaterials Science, 2019, 7, 3110-3137. | 5.4 | 81 |
| 3 | Dispersion of Carbon Nanotubes Using Mixed Surfactants: Experimental and Molecular Dynamics Simulation Studies. Journal of Physical Chemistry B, 2014, 118, 3094-3103. | 2.6 | 79 |
| 4 | Water treatment: functional nanomaterials and applications from adsorption to photodegradation. Materials Today Chemistry, 2020, 16, 100262. | 3.5 | 77 |
| 5 | Determination of the physico-chemical parameters and aggregation number of surfactant in micelles in binary alcoholâ€“water mixtures. Journal of Molecular Liquids, 2008, 137, 74-79. | 4.9 | 71 |
| 6 | Electrolyte effect on mixed micelle and interfacial properties of binary mixtures of cationic and nonionic surfactants. Journal of Colloid and Interface Science, 2008, 318, 449-456. | 9.4 | 69 |
| 7 | Dispersion of graphene using surfactant mixtures: Experimental and molecular dynamics simulation studies. Applied Surface Science, 2019, 464, 440-450. | 6.1 | 58 |
| 8 | The study of Sunset Yellow anionic dye interaction with gemini and conventional cationic surfactants in aqueous solution. Dyes and Pigments, 2012, 95, 768-775. | 3.7 | 50 |
| 9 | Ubiquitinâ€“proteasome system and the role of its inhibitors in cancer therapy. Open Biology, 2021, 11, 200390. | 3.6 | 46 |
| 10 | Effect of ethylene glycol on micellization and surface properties of Gemini surfactant solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 364, 87-93. | 4.7 | 44 |
| 11 | Thermodynamic studies of mixed ionic/nonionic surfactant systems. Journal of Colloid and Interface Science, 2004, 276, 197-207. | 9.4 | 41 |
| 12 | Investigation of interaction parameters in mixed micelle using pulsed field gradient NMR spectroscopy. Journal of Colloid and Interface Science, 2005, 285, 351-359. | 9.4 | 35 |
| 13 | A New Model to Study the Phase Transition from Microstructures to Nanostructures in Ionic/Ionic Surfactants Mixture. Journal of Physical Chemistry B, 2007, 111, 10069-10078. | 2.6 | 34 |
| 14 | Synthesis of hydroxyapatite particles in catanionic mixed surfactants template. Materials Chemistry and Physics, 2011, 131, 132-135. | 4.0 | 30 |
| 15 | Supercapacitive properties of coiled carbon nanotubes directly grown on nickel nanowires. Journal of Materials Chemistry A, 2014, 2, 17446-17453. | 10.3 | 30 |
| 16 | Synergistic effect of molybdenum coating and SDS surfactant on corrosion inhibition of mild steel in presence of 3.5% NaCl. Corrosion Science, 2018, 136, 393-401. | 6.6 | 30 |
| 17 | Role of surfactant structure in aqueous dispersions of carbon nanotubes. Fluid Phase Equilibria, 2015, 394, 19-28. | 2.5 | 29 |
| 18 | Optimal condition for fabricating superhydrophobic Aluminum surfaces with controlled anodizing processes. Applied Surface Science, 2018, 435, 1322-1328. | 6.1 | 29 |

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|---|---|---|---|
| 19 | Study of the electrostatic and steric contributions to the free energy of ionic/nonionic mixed micellization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 244, 187-196. | 4.7 | 28 |
| 20 | Highly transparent, flexible and hydrophilic ZnS thin films prepared by a facile and environmentally friendly chemical bath deposition method. Thin Solid Films, 2018, 651, 97-110. | 1.8 | 27 |
| 21 | Electrophoretic deposition of multi-walled carbon nanotubes on porous anodic aluminum oxide using ionic liquid as a dispersing agent. Applied Surface Science, 2015, 341, 109-119. | 6.1 | 26 |
| 22 | The study of polymerâ€“surfactant interaction in catanionic surfactant mixtures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 890-897. | 4.7 | 25 |
| 23 | Self-assembled catanionic surfactant mixtures in aqueous/ionic liquid systems. Journal of Molecular Liquids, 2015, 211, 754-760. | 4.9 | 21 |
| 24 | p -toluenesulfonic acid-catalyzed synthesis of polysubstituted quinolines via FriedlÃnder reaction under ball-milling conditions at room temperature and theoretical study on the mechanism using a density functional theory method. Journal of Physical Organic Chemistry, 2014, 27, 589-596. | 1.9 | 18 |
| 25 | Effect of electron-donating and -withdrawing substitutions in naphthoquinone sensitizers: The structure engineering of dyes for DSSCs. Journal of Molecular Structure, 2018, 1167, 274-279. | 3.6 | 18 |
| 26 | Role of Interaction Energies in the Behavior of Mixed Surfactant Systems: A Lattice Monte Carlo Simulation. Langmuir, 2010, 26, 13786-13796. | 3.5 | 17 |
| 27 | Selective separation behavior of graphene flakes in interaction with halide anions in the presence of an external electric field. Physical Chemistry Chemical Physics, 2016, 18, 7293-7299. | 2.8 | 16 |
| 28 | Self-assembly of cationic surfactants on the carbon nanotube surface: insights from molecular dynamics simulations. Journal of Molecular Modeling, 2013, 19, 4319-4335. | 1.8 | 15 |
| 29 | Investigation of DNAâ€“cationic bolaform surfactants interaction with different spacer length. Colloids and Surfaces B: Biointerfaces, 2013, 110, 29-35. | 5.0 | 15 |
| 30 | Naphthoquinone derivative-based dye for dye-sensitized solar cells: experimental and computational aspects. Materials Research Express, 2019, 6, 085537. | 1.6 | 15 |
| 31 | Electrolyte effect on adsorption and the phase transition from microstructures to nanostructures in ionic/ionic surfactants mixture. Journal of Colloid and Interface Science, 2011, 361, 159-169. | 9.4 | 14 |
| 32 | The study of glass superhydrophobicity by modified SiO2-hexadecyltrimethoxysilane (SiO2-m-HDTMS) nanoparticles and mixture of surfactants. Progress in Organic Coatings, 2019, 131, 73-81. | 3.9 | 14 |
| 33 | Cobalt complex dye as a novel sensitizer in dye sensitized solar cells. Materials Research Express, 2019, 6, 125536. | 1.6 | 11 |
| 34 | Manipulating electronic structure of graphene for producing ferromagnetic graphene particles by Leidenfrost effect-based method. Scientific Reports, 2020, 10, 6874. | 3.3 | 11 |
| 35 | Study of thermodynamic parameters in amphiphilic systems by lattice Monte Carlo: effect of tails and heads. Theoretical Chemistry Accounts, 2006, 115, 1-17. | 1.4 | 10 |
| 36 | Study of the Gemini Surfactantsâ€™ Self-Assembly on Graphene Nanosheets: Insights from Molecular Dynamic Simulation. Journal of Physical Chemistry A, 2018, 122, 3873-3885. | 2.5 | 10 |

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| 37 | pH-sensitive organic diimide materials-based superhydrophobic surface for oil-water separation applications. Materials Research Express, 2019, 6, 125112. | 1.6 | 10 |
| 38 | The extracted saponin from ginseng as an efficient renewable biosurfactant for desorption enhancement of phenanthrene and nickel. International Journal of Environmental Science and Technology, 2019, 16, 181-190. | 3.5 | 8 |
| 39 | Observation of magnetic domains in graphene magnetized by controlling temperature, strain and magnetic field. Scientific Reports, 2020, 10, 21325. | 3.3 | 8 |
| 40 | Further Study on the Micellization of a Symmetric Amphiphile Using the Monte Carlo Technique. Bulletin of the Chemical Society of Japan, 2006, 79, 1355-1361. | 3.2 | 6 |
| 41 | Investigation of the mixing behavior of surfactants by lattice Monte Carlo simulation. Journal of Molecular Modeling, 2010, 16, 1499-1508. | 1.8 | 6 |
| 42 | Lattice Monte Carlo simulation of dilute ionic surfactants. Journal of Molecular Liquids, 2008, 138, 147-154. | 4.9 | 5 |
| 43 | Ab initio DFT study of bisphosphonate derivatives as a drug for inhibition of cancer: NMR and NQR parameters. Journal of Molecular Modeling, 2012, 18, 929-936. | 1.8 | 5 |
| 44 | Growth of the cobalt nanowires using AC electrochemical deposition on anodized aluminum oxide templates. Journal of Nanostructure in Chemistry, 2014, 4, 1. | 9.1 | 5 |
| 45 | Effect of isoelectric point on cheese whey wastewater treatment using a microbial electrochemical system. Bioelectrochemistry, 2019, 130, 107200. | 4.6 | 5 |
| 46 | Local temperature versus system temperature in a simulation experiment containing water molecules. Physical Chemistry Chemical Physics, 2019, 21, 12961-12967. | 2.8 | 4 |
| 47 | Adsorption and micellar phase properties of anionic surfactant in the presence of electrolyte and oil at different temperatures. Fluid Phase Equilibria, 2013, 337, 370-378. | 2.5 | 3 |
| 48 | Electrolyte-cosolvent effects on the properties of micellar and monolayer phases in the cationic-rich region of catanionic mixture: The phase transition between microstructures and nanostructures. Fluid Phase Equilibria, 2014, 375, 168-175. | 2.5 | 3 |
| 49 | Self-assembly of the surfactant mixtures on graphene in the presence of electrolyte: a molecular simulation study. Adsorption, 2021, 27, 69-79. | 3.0 | 3 |
| 50 | The Hydrophobicity of Doped Graphene by the Fourth Group Elements of the Periodic Table: Theoretical and Computational Studies. Journal of Physical Chemistry C, 2019, 123, 24837-24845. | 3.1 | 2 |
| 51 | Investigation of ion-pairing phenomenon in BaF2 aqueous solution: Experimental and theoretical studies. Journal of Fluorine Chemistry, 2010, 131, 975-981. | 1.7 | 1 |
| 52 | The anionic conventional surfactants effect on the nanostructures and microstructures properties in cationic Gemini surfactants aqueous solution. , 2010, , . | | 1 |
| 53 | Computational study of the CO elimination reaction of cyclopropylmethoxy carbenes. Journal of Molecular Liquids, 2013, 182, 48-56. | 4.9 | 1 |
| 54 | The natural non-ionic magnetic surfactants: nanomicellar and interfacial properties. Journal of Nanostructure in Chemistry, 0, , 1. | 9.1 | 1 |

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| 55 | The role of polarization effect on the hydrophobicity of graphene and graphene-based devices: Theoretical and computational studies. Computational Materials Science, 2021, 200, 110781. | 3.0 | 0 |