



Department: School of Chemistry & Molecular Engineering

Professional field: Colloid and Interface Science

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Profile

2012-now Professor, Department of Chemistry, East China University of Science & Technology, Shanghai, CHINA

2007-2012 Associate Professor, Department of Chemistry, East China University of Science & Technology, Shanghai, CHINA

2007-2008 Post doctoral fellow, Department of Chemical and Biomolecular Engineering, Rice University, USA

2004-2007 Lecturer, Department of Chemistry, East China University of Science & Technology, Shanghai, CHINA

Research Field

1. The properties (including phase behavior, rheological behavior, microstructure of aggregates as well as morphology transition between different surfactant aggregates) and application of systems containing surfactant;
2. The Interaction between Surfactants and Polymers/ Bio-macromolecules;
3. Novel emulsification system and its application in Cosmetics;
4. Research and development of high-end cosmetics

Research results and selected published papers

- (1) The Effect of Chitin Nanoparticles on Surface Behavior of DPPC/DPPG Langmuir Monolayers, *Journal of Colloid and Interface Science*. 2018, 519: 186-193.
- (2) Effects of polymers on the properties of hydrogels constructed by sodium deoxycholate and amino acid, *RSC Adv*. 2018, 8, 8699-8708.
- (3) Effects of nonionic surfactant and salts on the interactions between oppositely charged star-shaped copolymer and ionic surfactant in aqueous solutions, *Journal of Molecular Liquids*. 2018, 266: 789-796.
- (4) A Novel System with Abundant Self-assembly Morphology and Rheological Behaviors Tunable by Photoinduction, *RSC Advances*, 2018, 8: 16004-16012.
- (5) Study on the development of wax emulsion with liquid crystal structure and its moisturizing and frictional interactions with skin. *Colloids and surfaces B: biointerfaces*, 2018, 171: 335-342.
- (6) UV-responsive behavior of multi-state and multi-scale self-assemblies constructed by Gemini surfactant 12-3-12.2Br- and trans -o-methoxy-cinnamate, *Langmuir*, 2018, 34 (43): 12990-12999.
- (7) Synthesis and properties of comb-like and linear polymers: Effects of dispersant structure on the bubble structure, surface activity, adsorption, and rheological performance, *Colloids and Surfaces A*, 2019, 562: 336-344.
- (8) Toxicant Deposition and Transport in Alveolus: A Classical Density Functional Prediction, *Chem. Res. Toxicol*. 2018, 31: 1398-1404.
- (9) Molecular simulation and experimental studies on the interfacial properties of a mixed surfactant SDS/C4mimBr. *Molecular Simulation*, 2019, 45 (3): 223-229.
- (10) Ionic Liquid-Polypyrrole-Gold Composites as Enhanced Enzyme Immobilization Platforms for Hydrogen Peroxide Sensing. *Sensors*, 2019, 19, 640.
- (11) Development and Application of an Efficient Medium for Chromogenic Catalysis of Tetramethylbenzidine with Horseradish Peroxidase. *ACS Omega*, 2019, 4 (3): 5459-5470.
- (12) Photo-responsive Behavior of Wormlike Micelles Constructed by Gemini Surfactant 12-3-12.2Br- and Different Cinnamate Derivatives. *Langmuir*, 2019, 35,13:4634-4645.
- (13) Investigation of Drug for Pulmonary Administration-Model Pulmonary Surfactant Monolayer Interactions Using Langmuir-Blodgett Monolayer and Molecular Dynamics Simulation: A Case Study of Ketoprofen. *Langmuir*, 2019, 35, 41, 13452-13460.