



所属学院 化学与分子工程学院

学科领域 胶体与界面科学

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个人简介

2004年获华东理工大学化学工程专业博士学位，并留校任教。2007年8月至2008年9月在赖斯大学(Rice University)美国工程院院士George J Hirasaki教授课题组从事博士后研究工作。主要从事胶体界面化学及聚合物科学研究，近年来承担了国家自然科学基金青年基金项目、面上项目和教育部中央高校基本科研业务费青年基金等项目的研究工作，迄今已在国内外核心学术期刊发表学术论文110余篇，申请发明专利多项。

研究方向

1. 表面活性剂及其复配体系的性质及应用；
2. 表面活性剂与聚合物、生物大分子相互作用研究；
3. 特殊乳化体系及其在化妆品中的应用；
4. 高端化妆品的研发及性能。

研究成果及主要发表文章

- (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 12-3-12₂Br⁻ 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 12-3-12₂Br⁻ 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.