

教师姓名 陈磊 政治面貌 中共党员

所在系部 粮食工程系 职称/职务 讲师/系副主任

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讲授课程 《物料输送》、《食品科学与工程导论》

个人简介

博士,讲师,现任武汉轻工大学粮食工程系副主任。主要从事谷物源淀粉的功能改性及其高值化利用研究,参与国家自然科学基金、湖北省国际合作项目等项目3项,主持教育部重点实验室开放课题1项,企业成果转化横向1项。

教育经历

2011.09-2015.6: 武汉轻工大学,食品科学与工程专业,本科

2015.09-2020.06: 华中农业大学, 食品科学专业, 博士

工作经历

2020.06-至今: 武汉轻工大学食品科学与工程学院,讲师

研究方向

- [1] 谷物淀粉的功能化改性及其高值化利用
- [2] 鲜湿米制食品的贮藏保鲜

主持的代表性科研项目

(1) 大宗粮油精深加工教育部重点实验室: 理预糊化糯米淀粉的结构与功能特性研究

发表的代表性论文(第一或通讯作者)

[1] Multi-scale structure characterization of ozone oxidized waxy rice starch. Carbohydrate Polymers, 2023, 307, 120624.

- [2] Synthesis and Ciprofloxacin Adsorption of Gum Ghatti /Konjac Glucomannan/Zif-8 Composite Aerogel. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 664, 131196.
- [3] Structural and mechanistic insights into starch microgel/anthocyanin complex assembly and controlled release performance. International Journal of Biological Macromolecules, 2022, 213, 718-727.
- [4] Functional nanoparticle reinforced starch-based adhesive emulsion: Toward robust stability and high bonding performance. Carbohydrate Polymers, 2021, 269(19), 118270.
- [5] Starch/tea polyphenols nanofibrous films for food packaging application: From facile construction to enhance mechanical, antioxidant and hydrophobic properties. Food Chemistry, 2021, 360, 129922.
- [6] Sustainable bio-based wood adhesive incorporated different functionalized nanoparticles: a performance comparison study. Starch-Stärke, 2021, 73 (7-8): 2100042.
- [7] Investigating the structure and self-assembly behavior of grafted starch in starch-based adhesives by combining NMR analysis and multi-scale simulation. Carbohydrate Polymers, 2020, 246, 116655.
- [8] A combination of coarse-grain molecular dynamics to investigate the effects of sodium dodecyl sulfate on grafted reaction of starch-based adhesive. Carbohydrate Polymer, 2019, 218: 20-29.
- [9] Sodium dodecyl sulfate improves the properties of bio-based wood adhesive derived from micronized starch: Microstructure and rheological behaviors. International Journal of Biological Macromolecules, 2019, 140: 1026-1036.
- [10] Effects of nano-TiO₂ on bonding performance, structural stability and film-forming properties of starch-g-VAc based wood adhesive. Carbohydrate Polymers, 2018, 200 (51): 477-486.

曾获奖励和荣誉

[1] 2021年,获武汉轻工大学优秀共产党员

学术及社会兼职

- [1] Foods与Polymers期刊客座编辑
- [2] International Journal of Biological Macromolecules、Foods 等期刊审稿人
- [3] 湖北省科技特派员

学术讲座和报告

陈磊,2021年度世界著名科学家来鄂讲学论坛暨食品安全与健康国家研讨会,2021年9月25日,武汉(分会报告)