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**所属中心：农林食品加工与包装研究中心**

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**技术职称：副研究员**

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**研究方向：农林食品功能与营养、农林食品加工与安全**

**学习经历：**

2011-11 至 2017-03, 浙江大学, 食品科学, 博士

2015-08 至 2016-12, 美国 Rutgers 大学, 生物化学系, 联合培养博士

2007-09 至 2011-06, 浙江工业大学, 食品科学与工程, 学士

**学术兼职：**

担任食品学科秘书, 中国轻工业食品大分子资源加工技术重点实验室办公室主任; 浙江省食品学会理事, 浙江食品学会青年委员会委员; *Journal of Food Engineering*, *LWT-food science and technology*, *Food&Function* 等杂志的审稿专家。

**科研项目：**

1. 基于空间定位的植物甾醇纳米乳液稳定机制研究, 2019.01-2021.12, 自然科学基金/国家级, 24 万, 主持, 在研;

2. 大宗农产品高效提取技术研究和产品开发, 2019.01-2022.06, 科技/省部级, 32 万, 主持, 在研;

3. 基于不同 C3 支链植物甾醇刚性调控的纳米脂质体稳定机制研究, 2020.08-2021.12, 中国博士后基金/纵向, 8 万, 主持, 在研;



- 4.浙江工业大学青年教师启动经费, 10 万, 主持
- 5.基于微观空间定位的植物甾醇纳米乳液增溶增效机理研究, 2017.05-2019.02, 中国博士后基金/纵向, 5 万, 主持, 结题;
- 6.天然特色森林资源健康功能产品深度开发与应用研究, 2019.01-2022.06, 科技/省部级, 278 万, 参与 2/19,在研;
- 7.莼菜多糖三降健康食品研发, 2017.01-2020.12, 科技/省部级, 34 万, 参与 2/3, 在研;
- 8.亚麻籽油系列产品深度开发研究, 2018.05-2023.05, 江苏儒嘉生物科技有限公司/横向, 150 万, 参与 2/9, 在研。

### 代表论文、专利、论著:

1. **Simin Feng(冯思敏)**, Tarun Belwal, Li Li, Jarukitt Limwachiranon, Xingquan Liu, Zisheng Luo\*. Phytosterols and their derivatives: Potential health-promoting uses against lipid metabolism and associated diseases, mechanism, and safety issues[J]. Comprehensive Reviews in Food Science and Food, 2020, 19(4): 1243-1267 (IF=9.912, JCR1 区)
2. **Simin Feng(冯思敏)**, LiLing Wang, Ping Shao, Peilong Sun, Chung S. Yang\*. A review on chemical and physical modifications of phytosterols and their influence on bioavailability and safety[J]. Critical Reviews in Food Science and Nutrition, 2021, DOI: 10.1080/10408398.2021.1888692(IF=7.862, JCR1 区)
3. **Simin Feng(冯思敏)**, Yuxin Sun, Dan Wang, Peilong Sun, Ping Shao\*. Effect of adjusting pH and chondroitin sulfate on the formation of curcumin-zein nanoparticles: Synthesis, characterization and morphology[J]. Carbohydrate Polymers, 2020, 250:116970 (IF=7.182, JCR1 区)
4. **Feng Simin(冯思敏)**, Wang Lei, Belwal Tarun, Li Li, Luo Zisheng\*, Phytosterols extraction from hickory (*Carya cathayensis Sarg.*) husk with a green direct citric acid hydrolysis extraction method, Food Chemistry, 2020, 315:126217 (IF=6.306, ZJUTTOP 100, JCR1 区)
5. **Feng Simin(冯思敏)\***, Wang Zhangtie, Zhao Jinjina, Luo Zisheng, Shao Ping, Xiang Ning, Sun Peilong\*, Fabrication and characterization of water-soluble phytosterol ester nanodispersion by emulsification-evaporation combined ultrasonic method, Journal of Food

Engineering, 2020, 276:109895 (IF=4.499, ZJUTTOP 100, JCR1 区)

6. **Simin Feng(冯思敏)**, Jiadan Yan, Dan Wang, Ligang Jiang, Peilong Sun, Ning Xiang, Ping Shao\*. Preparation and characterization of soybean protein isolate/pectin-based phytosterol nanodispersions and their stability in simulated digestion[J]. Food Research International, 2021, DOI: 10.1016/j.foodres.2021.110237 (IF=4.972, JCR1 区)

7. **Feng Simin(冯思敏)**, Gan Ling, Yang Chung S., Liu Anna, Lu Wenyun, Shao Ping, Dai Zhuqing, Sun Peilong\*, Luo Zisheng\*, Effects of stigmaterol and beta-sitosterol on nonalcoholic fatty liver disease in a mouse model: a lipidomic analysis, Journal of agricultural and Food Chemistry, 2018, 66 (13): 3417-3425 (IF=4.192, ZJUTTOP 100, JCR1 区)

8. **Simin Feng(冯思敏)**, Dan Wang, Ling Gan, Ping Shao, Ligang Jiang, Peilong Sun\*. Preparation and characterization of zein/pectin-based phytosterol nanodispersions and kinetic study of phytosterol release during simulated digestion in vitro[J].LWT-Food Science and Technology,2020,128:109446(IF=4.006, JCR1 区)

9. **Feng Simin(冯思敏)**, Xinying Zheng, Di Luan, Ping Shao, Peilong Sun\*, Preparation and characterization of zein-based phytosterol nanodispersions fabricated by ultrasonic assistant anti-solvent precipitation, LWT-Food Science and Technology, 2019,107,138-144(IF=4.006, JCR1 区)

10. **Feng Simin(冯思敏)**, Zhuqing Dai, Anna Liu, Jinbao Huang, Nihal Narsipur, Grace Guo, Bo Kong, Kenneth Reuhl, Wenyun Lu, Zisheng Luo\*, Chung S. Yang\*, Intake of stigmaterol and beta-sitosterol alters lipid metabolism and alleviates NAFLD in mice fed a high-fat western-style diet, Biochimica et biophysica acta- molecular and cell biology of lipids, 2018, 1863 (10): 1274-1284 (IF=4.519, JCR1 区)

11. **Feng Simin(冯思敏)**, Di Luan, Ning Ke, Shao Ping, Sun Peilong\*, Ultrafiltration isolation, hypoglycemic activity analysis and structural characterization of polysaccharides from *Brasenia schreberi*, International journal of biological macromolecules, 2019, 135:141-151(IF=5.162, JCR1 区)

12. **Feng Simin(冯思敏)**, Zhuqing Dai, Anna Liu, Hong Wang, Jayson Chen, Zisheng Luo, Chung S. Yang\*,  $\beta$ -Sitosterol and stigmaterol inhibit dextran sulfate sodium-induced colitis in C57BL/6J mice fed a high fat western diet, Food & function, 2017, 8 (11): 4179-4186 (IF=3.241, JCR1 区)

### **专利：**

- 1.冯思敏, 郑欣盈, 邵平, 孙培龙, 栾迪. 一种玉米醇溶蛋白负载植物甾醇的纳米乳液的制备方法[P]. ZL201810462755.1. 授权
- 2.冯思敏等, 一种莼菜体外多糖胶的物理分离方法[P]. ZL2018100261777, 授权
- 3.Simin Feng(冯思敏), Peilong Sun, Ping Shao, Jiadan Yan, Dan Wang, Yuxin Sun. Preparation method of water-soluble phytosterol nano dispersion system with enterally targeting release function[P]. US 17/001, 241, 2020 年申请

### **奖励和荣誉：**

- 1.校级优秀班主任,2018.12
- 2.冯思敏(1/3), 浙江工业大学第三届微课教学比赛,优秀奖,2018.04
- 3.冯思敏(6/10), 海藻多糖高值化加工新技术及产业化应用,商业联合会科学技术奖一等奖,2017.12
- 4.冯思敏(3/8),功能营养物包埋载体设计技术及其健康产品应用,商业联合会科学技术奖一等奖,2018.12