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- » 博士生导师
- » 博士生导师简介
- » 硕士生导师

### 博士生导师简介

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## 博士生导师简介

周江, 男, 1959年6月出生, 吉林大学工程仿生教育部重点实验室教授, 博士生导师。教育部印刷包装教学指导委员会包装教学分指导委员会委员。国际仿生工程学会创始会员。毕业于英国Brunel大学, 获博士学位。先后以访问学者、访问科学家和博士后研究员的身份在意大利那不勒斯 (Naples) 大学、美国密西根州立大学和英国布鲁内尔 (Brunel) 大学从事研究工作约9年。作为课题负责人, 主持国家自然科学基金项目3项、省部级科研项目4项; 作为主要成员, 参加过国家自然科学基金、国家杰出青年科学基金、福特基金、英国工程与自然科学研究理事会(EPSC)资助的项目、英国环境食品和农业事务部(DEFRA)资助的项目以及美、英公司委托的课题等研究工作。在生物质材料及食品领域的权威期刊 “Carbohydrate Polymers” 、 “Food Chemistry” 、 “Food Hydrocolloids” 和 “Industrial Crops and Products” 等国内外刊物上发表学术论文80余篇; 出版教材1部、学术专论2章; 申请中国发明专利9件 (其中5件已授权) 。获吉林省技术发明奖一等奖、教育部技术发明奖二等奖和吉林省自然科学学术成果奖二等奖。



## 研究方向

1、生物质加工改性与利用/农产品加工：主要以淀粉、纤维素、壳聚糖和甲壳素等无毒、可再生农业生物质为原料，通过加工改性制备泡沫、薄膜和水凝胶等材料，开发其在缓冲包装、活性食品包装和医用材料等方面的应用；制备生物质纳米颗粒和纳米晶，并对其改性修饰，开发其在纳米复合材料、纳米微胶囊、污水处理、乳液稳定剂以及药物控释和靶向药物载体等方面的应用。

2、仿生功能表面：基于典型生物体表的微观结构和化学组成与表面功能的关系，以生物质材料为原料，设计和制备超疏水、超疏油、超亲水、超亲油等功能表面，并开发其不同领域的应用。

## 招生情况

招收农业机械化工程专业或仿生科学与工程专业硕士研究生、农业机械化工程专业博士研究生。指导的研究生论文曾获吉林省优秀博士论文和吉林省优秀硕士论文。培养的博士研究生在吉林大学、吉林农业大学和长春大学任教，培养的硕士研究生进入上海泛亚汽车技术中心有限公司、深圳迈瑞生物医疗电子股份有限公司、铂金斯动力系统有限公司、联合汽车电子有限公司、深圳华星光电技术有限公司、沈阳华晨汽车集团控股有限公司等中外企业工作。欢迎食品、材料、化学、生物、农机等相关专业的本科生和硕士生报考。

## 联系方式

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## 学术成果

### 一、以通讯作者(\*)或第一作者发表的SCI论文

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