



北京林业大学

材料科学与技术学院

College of Materials Science and Technology

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2023年6月2日 14:03:14 大同 6~26°C 西北风

师资队伍

- 人才计划
- 教授
- 副教授
- 讲师
- 实验教师
- 兼职教员
- 党团行政
- 退休教员

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蒋建新

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蒋建新 教授、博士生导师

性别：男
 电子邮箱：jiangjx@bjfu.edu.cn
 办公电话：010-62338267
 研究方向：林产化工及生物质能源材料

详细资料

教育/工作经历

2009.01 –至今 北京林业大学教授/博导
 2009.05 –2010.04 瑞典隆德大学国家公派访问学者
 2005.01 –2007.12 北京林业大学博士后
 2003.12 –2008.12 北京林业大学副教授/系主任
 2000.09 –2003.07 南京林业大学博士研究生
 1997.09 –2000.07 南京林业大学硕士研究生
 1991.07 –2003.11 南京野生植物研究院工程师/高工
 1987.09 –1991.07 南京化工大学化学工程本科

主讲课程

“生物质材料与能源进展”、“生物质能源”、“化工原理”、“化工分离工程”、“林产化学加工专题”

科研工作及成果

主要从事生物质能源材料及精细化学品领域的教学科研工作，以速生乔灌木和工业纤维为原料转化生物质能源材料的预处理、酶法降解转化和综合利用研究，类玻璃功能材料及水凝胶材料研究，功能性大分子多糖和皂素提取分离、结构鉴定及性能应用研究。主持完成国家自然科学基金项目、国家重点研发计划课题、国家科技攻关支撑课题、国际合作科技专项、国家94851项目、教育部新世纪优秀人才支持计划、国家林业局科技重点项目和各类横向项目等30余项。获得国家技术发明二等奖、全国商业科技进步一、二等奖、梁希林业科技二等奖、江苏省科技进步二等奖、中国博士后科学基金奖和首届梁希青年论文奖等10余项。国内外期刊发表研究论文200余篇，其中SCI收录145篇，主编教材2部，主编中文专著3部，参编英文专著1部，申请发明专利62件，其中授权49件，转化专利成果12项，制订国家标准和林业行业标准11项，培养毕业博士研究生21名、硕士研究生38名。

奖励及荣誉称号

- 国家技术发明二等奖（排名第二），2011-12
- 庆祝中华人民共和国成立70周年纪念章，2019-9
- 入选中国林产工业著名人物志，2020-5
- 入选教育部新世纪优秀人才支持计划，2007-10
- 入选江苏省高层次人才创新创业人才计划，2010-10
- 全国商业科学技术进步一等奖（排名第一），2019-12
- 梁希林业科学技术二等奖（排名第一），2011-12
- 梁希林业科学技术三等奖（排名第二），2017-4
- 江苏省科学技术进步二等奖（排名第四），2006-12
- 首届梁希青年论文二等奖，2006-11
- 中国博士后科学基金二等资助金，2006-12

学术/社会兼职

- 林业生物质材料与能源教育部工程中心主任
- 特色木本多糖国家创新联盟理事长
- 国家民委林产化学与工程重点实验室学术委员会主任
- 中国林产工业协会树木提取物利用分会副理事长
- 中国林产工业协会香精香料分会副理事长
- 全国林化产品标准化技术委员会委员
- 国家林业局生物乙醇研究中心学术委员会委员
- 《林产化学与工业》《林业工程学报》《林产工业》《中国野生植物资源》编委会编委
- 中国林产工业协会专家咨询委员
- 中国林学会化学化工分会常务理事

学术成果展示（不超过30个）

- Leping Zhang, Weiwei Zhang, Fenglun Zhang, Jianxin Jiang*. Xylo-oligosaccharides and lignin production from Camellia oleifera shell by malic acid hydrolysis at mild conditions. *Bioresour e Technology*, 2021, 125897 (SCI, IF2020, 9.642)
- Pengfei Li, Ting Wang, Jing He, Jianxin Jiang*, Fuhou Lei*. Synthesis, characterization, and selective dye adsorption by pH- and ion-sensitive polyelectrolyte galactomannan-based hydrogel s. *Carbohydrate polymers*, 2021, 264: 118009 (SCI, IF2020, 9.381)
- Weiwei Zhang, Jianqiao Wu, Liang Gao, Baoyan Zhang, Jianxin Jiang* and Jun Hu*. Recyclabl e, Reprocessable, Self-adhered and Self-healable Carbon Fiber Reinforced Polymers Using Full B iobased Matrices from Camphoric Acid and Epoxidized Soybean Oil. *Green Chemistry*, 2021, 10. 1039/D1GC00648G(SCI, IF2020, 10.182)
- Pengfei Li, Ting Wang, Jing He, Jianxin Jiang*, Fuhou Lei*. Diffusion of water and protein dru g in 1,4-butanediol diglycidyl ether crosslinked galactomannan hydrogels and its correlation with the physicochemical properties. *International journal of biological macromolecules*, 2021, 18 3: 1987-2000(SCI, IF2020, 6.953)
- Chuanjie Liu, Fuhou Lei, Pengfei Li, Kun Wang, Jianxin Jiang*. A review on preparations, prop erties, and applications of cis-ortho-hydroxyl polysaccharides hydrogels crosslinked with borax. *International journal of biological macromolecules*, 2021, 182: 1179-1191 (SCI, IF2020, 6.953)
- Li Ji, Fenglun Zhang, Liwei Zhu, Jianxin Jiang*. An in-situ fabrication of bamboo bacterial cell ulose/sodium alginate nanocomposite hydrogels as carrier materials for controlled protein dru g delivery. *International journal of biological macromolecules*, 2021, 170: 459-468(SCI, IF2020, 6.953)
- Wei Xu, Minghui Han, Weiwei Zhang, Fenglun Zhang, Fuhou Lei, Kun Wang, Jianxin Jiang*. Pr oduction of manno-oligosaccharide from Gleditsia microphylla galactomannan using acetic aci d and ferrous chloride. *Food Chemistry*, 2021, 346: 128844 (SCI, IF2020, 7.514)
- Li Pengfei, Qin Liting, Wang Ting, Dai Lanxiang, Li Hua, Jiang Jianxin*, Zhou Juying, Li Hao, C heng Xinqiao, Lei Fuhou*. Preparation and adsorption characteristics of rosin-based polymer mi crospheres for berberine hydrochloride and separation of total alkaloids from coptidis rhizome. *Chemical engineering journal*, 2020, 392: 123707 (SCI, IF2020, 13.273)
- Tianran Zheng, Jianxin Jiang*, Jianfeng Yao*. Surfactant-promoted hydrolysis of lignocellulos e for ethanol production. *Fuel Processing Technology*, 2020, (SCI, IF2020, 7.033)
- Yantao Liu, Fuhou Lei, Liang He, Wei Xu, Jianxin Jiang*. Comparative study on the monosa ccharides of three typical galactomannans hydrolyzed by different methods. *Industrial Crops an d Products*, 2020, 157: 112895 (SCI, IF2020, 5.645)
- Weiwei Zhang, Xiankun Zhang, Fuhou Lei, Jianxin Jiang*. Co-production bioethanol and xy looligosaccharides from sugarcane bagasse via autohydrolysis pretreatment. *Renewable Energy*, 2020, (SCI, IF2020, 8.001)
- Minghui Han, Yantao Liu, Fenglun Zhang, Dafeng Sun, Jianxin Jiang*. Effect of galactose si de-chain on the self-assembly of xyloglucan macromolecule. *Carbohydrate polymers*, 2020, (SC I, IF2020, 9.381)
- Yantao Liu, Fuhou Lei, Liang He, Wei Xu, Jianxin Jiang*. Physicochemical characterization o f galactomannans extracted from seeds of Gleditsia sinensis Lam and fenugreek. Comparison wi th commercial guar gum. *International journal of biological macromolecules*, 2020, 158: 1047-1 054(SCI, IF2020, 6.953)
- Xiankun Zhang†, Weiwei Zhang†, Fuhou Lei, Shujuan Yang, Jianxin Jiang*. Coproduction of xylooligosaccharides and fermentable sugars from sugarcane bagasse by seawater hydrotherm al pretreatment. *Bioresour ce Technology*, 2020, 309: 123385 (SCI, IF2020, 9.642)
- Yanzhi You, Xiankun Zhang, Pengfei Li, Fuhou Lei, Jianxin Jiang*. Co-production of xylooli g osaccharides and activated carbons from Camellia oleifera shell treated by the catalysis and acti vation of zinc chloride. *Bioresour ce Technology*, 2020, 306: 123131 (SCI, IF2020, 9.642)
- Siyi Ju, Fenglun Zhang, Jiufang Duan, and Jianxin Jiang*. Characterization of bacterial cellu lose composite films incorporated with bulk chitosan and chitosan nanoparticles: A comparativ e study. *Carbohydrate polymers*, 2020, 237: 116167 (SCI, IF2020, 9.381)
- Chuanjie Liu, Fuhou Lei, Pengfei Li, Jianxin Jiang*, Kun Wang, Borax Crosslinked Fenugreek Galactomannan Hydrogel as Potential Water-retaining Agent in Agriculture. *Carbohydrate poly mers*, 2020, 236: 116100 (SCI, IF2020, 9.381)
- Wei Xu, Yantao Liu, Fenglun Zhang, Fuhou Lei, Kun Wang, Jianxin Jiang*. Physicochemical characterization of Gleditsia triacanthos galactomannan during deposition and maturation. *Inte rnational journal of biological macromolecules*, 2020, 144: 821-828 (SCI, IF2020, 6.953)
- Tianran Zheng, Hailong Yu, Shijie Liu, Jianxin Jiang* and Kun Wang*. Achieving high ethan ol yield by co-feeding corncob residues and tea-seed cake at high-solids simultaneous sacchari fication and fermentation. *Renewable Energy*, 2020, 145: 858-866 (SCI, IF2020, 8.001)
- Tianran Zheng, FuhouLei, PengfeiLi, ShijieLiu, Jianxin Jiang*. Stimulatory effects of rhamno lipid on corncob residues ethanol production via high-solids simultaneous saccharification and fermentation. *Fuel*, 2019, 257: 116091(SCI, IF2019, 5.578)
- Yantao Liu, Wei Xu, Fuhou Lei, Pengfei Li, Jianxin Jiang*. Comparison and characterization of galactomannan at different developmental stages of Gleditsia sinensis Lam. *Carbohydrate po lymer s*, 2019, 201:115127 (SCI, IF2019, 7.182)
- Weiwei Zhang, Fuhou Lei, Pengfei Li, Xiankun Zhang, Jianxin Jiang*. Co-catalysis of magne sium chloride and ferrous chloride for xylo-oligosaccharides and glucose production from suga rcane bagasse. *Bioresour ce Technology*, 2019, 291:121839 (SCI, IF2019, 7.539)
- Li Ji, Fuhou Lei, Weiwei Zhang, Xiankun Song, Jianxin Jianga*, Kun Wang. Enhancement o f bioethanol production from Moso bamboo pretreated with biodiesel crude glycerol: Substrate digestibility, cellulase absorption and fermentability. *Bioresour ce Technology*, 2019, 276:300-30 9 (SCI, IF2019, 7.539)
- Shujuan Yang, Hailong Yu, Yanzhi You, Xiaoli Li, and Jianxin Jiang*. Effective lactic acid pro duction from waste paper using Streptococcus thermophilus at low enzyme loading assisted by Gleditsia saponin. *Carbohydrate polymers*, 2018, 200: 122-127 (SCI, IF2018, 6.044)
- Ziyuan Zhou, Fuhou Lei, Pengfei Li, Jianxin Jiang*. Lignocellulosic biomass to biofuels and biochemicals, a comprehensive review with a focus on ethanol organosolv pretreatment techno logy. *Biotechnology and Bioengineering*, 2018, 2683-2702 (SCI, IF2018, 4.26)
- Weiwei Zhang, Yanzhi You, Fuhou Lei, Pengfei Li, Jianxin Jiang*. Acetyl-assisted autohydroly sis of sugarcane bagasse for the production of xylo-oligosaccharides without additional chemi cals. *Bioresour ce Technology*, 2018, 265: 387-393(SCI, IF2018, 6.669)
- Ziyuan Zhou, Yanzhi You, Fuhou Lei, Pengfei Li, Jianxin Jiang, Liwei Zhu*. Enhancement of enzymatic hydrolysis of sugarcane bagasse by pretreatment combined green liquor and sulfite. *Fuel*, 2017, 203:707-714 (SCI, IF2017, 4.908)
- Yanzhi You, Pengfei Li, Fuhou Lei, Yang Xing, Jianxin Jiang*. Enhancement of ethanol produ ction from Green Liquor-Ethanol-pretreated sugarcane bagasse by glucose-xylose cofermentati on at high solid concentrations with mixed Saccharomyces cerevisiae strains. *Biotechnology for biofuels*, 2017, 10:92(SCI, IF2017, 5.497)
- Yang Xing, Lingxi Bu, Tianran Zheng, Shijie Liu, Jianxin Jiang. Enhancement of high-solids e nzymatic hydrolysis of corncob residues by bisulfite pretreatment for Biorefinery. *Bioresour ce T echnology*, 2016, 221: 461-468(SCI, IF2016, 5.651)
- Ziyuan Zhou, Wenwen Xue, Fuhou Lei, Yi Cheng, Jianxin Jiang*, Dafeng Sun. Kraft GL-etha nol pretreatment on sugarcane bagasse for effective enzymatic hydrolysis. *Industrial Crops & Pr oducts*, 2016, 90:100-109 (SCI, IF2016, 3.181)