



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 10:40:41 大同 6~26℃ 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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### 金小娟

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金小娟 教授、博士生导师

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研究方向: 生物质炭、功能纸

### 详细资料

#### 教育/工作经历

##### 教育经历

2002年9月-2005年12月, 北京林业大学工学院化工系学习, 获博士学位;  
1998年9月-2001年12月, 北京林业大学工学院化工系学习, 获硕士学位;  
1990年9月-1994年7月, 北京林业大学工学院化工系学习, 获学士学位。

##### 工作经历

1994年-至今, 北京林业大学材料科学与技术学院, 教师;

##### 期间:

2007年1月-2008年5月, 赴美国密歇根州立大学林业系作访问学者, 师从Kandem 教授, 从事植物纤维化学方面的研究工作;

2003年10月-2004年3月, 曾赴日本岛根大学学习, 师从古野毅教授, 从事植物纤维化学方面的研究工作。

#### 主讲课程

“森工概论”、“纸张概论”、“加工纸、特种纸及功能纸”

#### 科研工作及成果

主要从事生物质炭材料的制备及利用、功能纸的开发等研究工作。曾主持, 林业公益性行业科研专项、废弃人造板制备高性能活性炭电极关键技术及机理; 横向项目: 农药多残留前处理净化材料的合成与测试; 国家留学基金项目: 木素在漆酶及仿漆酶漂白体系中结构变化的研究。参与林业局“948”引进项目; 两性聚电解质提高再生纸强度技术引进; 林业公益性行业科研专项项目: 微波液化产物制备再生纤维素及衍生物关键技术研究示范; 国家自然科学基金项目: 基于木质素基石墨烯的反应烧碳化硅制备及其在防弹领域应用。以第一作者和责任作者发表SCI论文30余篇, 申请发明专利7件。

#### 奖励及荣誉称号

无

#### 学术/社会兼职

无

#### 学术成果展示 (不超30个)

##### 近年发表文章:

1. Xiao-Juan Jin\*, Ming-Yang Zhang, Yu Wu, Ji Zhang, Jun Mu. Nitrogen-enriched waste medium density fiberboard-based activated carbons as materials for supercapacitors. Industrial Crops and Products. 2013,43:617-622
2. Wu, Y., Jin, X. J., & Zhang, J. Characteristics of nitrogen-enriched activated carbon prepared from waste medium density fiberboard by potassium hydroxide. Journal of Wood Science. 2013, 59(2):133-140
3. Mingyang Zhang, Xiaojuan Jin\*, Yu Wu. Preparation of high performance activated carbon electrode from waste fibreboard for electric double layer capacitor by KOH activation. Wood Research. 2013,58(1): 81-90
4. Yu Wu, Ji Zhang, Xiao-Juan Jin\*, Jian-Min Gao. Study of chromium(VI) adsorption onto nitrogen-enriched activated carbon from waste medium density fiberboard. Wood Sci Technol. 2014,48:713-725
5. Zhang, Ji, Jin, Xiao-Juan\*, Gao, Jian-Min. Phenol Adsorption on Nitrogen-enriched Activated Carbon Prepared from Bamboo Residues. Bioresources. 2014,9(1): 969-983
6. Tong Xin Shang, Ji Zhang, Xiao Juan Jin\*, Jian Min Gao. Study of Cr(VI) adsorption onto nitrogen-containing activated carbon preparation from bamboo processing residues. J Wood Sci. 2014,60:215-224
7. Tong-Xin Shang, Ming-Yang Zhang and Xiao-Juan Jin\*. Easy procedure to prepare nitrogen-containing activated carbons for supercapacitors. RSC Adv. 2014, 4:39037-39044
8. Mingyang Zhang, Xiaojuan Jin\*, Qiang Zhao. Preparation of N-doped activated carbon electrode for electric double-layer capacitor from waste fiberboard by K<sub>2</sub>CO<sub>3</sub> activation. New Carbon Materials. 2014,29(2):89-95
9. Zhang, Ji; Shang, Tongxin; Jin, Xiaojuan; Gao, Jianmin; Zhao, Qiang. Study of chromium(VI) removal from aqueous solution using nitrogen-enriched activated carbon based bamboo processing residues. RSC ADVANCES, 2015, 5 (1) : 784-790
10. Shang, Tongxin; Cai, Xiaoxu; Jin, Xiaojuan. Phosphorus- and nitrogen-co-doped particleboard based activated carbon in supercapacitor application. RSC ADVANCES, 2015, 5 (21) : 16433-16438
11. Shang, Tong-Xin; Ren Ru-Quan; Zhu, Yue-Mei; Jin, Xiao-Juan. Oxygen- and nitrogen-co-doped activated carbon from waste particleboard for potential application in high-performance capacitance. ELECTROCHIMICA ACTA, 2015 (163) : 32-40
12. Shang, T. X.; Zhang, J.; Fan, F. L.; Nitrogen-enriched activated carbons from waste particleboard used as electrode materials for supercapacitors: effects of activating agent on surface characteristics. RSC ADVANCES 2015(5)63:50843-50850
13. Cai Xiaoxu, Ren Ruquan, Jin Xiaojuan. preparation of nitrogen-containing activated carbon from waste medium density fiberboard for electric double layer capacitor. Bioresources, 2015,10(3):5586-5595
14. Shang, Tongxin, Jin Xiaojuan. Waste particleboard-derived nitrogen-containing activated carbon through KOH activation for supercapacitors. JOURNAL OF SOLID STATE ELECTROCHEMISTRY. 2016,(20)7: 2029-2036
15. R. R. Pan, Y. Li and X. J. Jin. Microwave regeneration of phenol-loaded activated carbons obtained from arundo donax and waste fiberboard. RSC ADVANCES, 2016( 6):32960-32966
16. Tong-Xin Shang, Yue-Mei Zhu, and Xiao-Juan Jin. Preparation of Disused Composite Panels-Based Activated Carbon by Microwave Induced Activation for High Performance of Electric Double-Layer Capacitors: Microwave Power Effects Science of Advanced Materials. 2016,(8)5: 1101-1107
17. R. Q. Ren, T. X. Shang and X. J. Jin. Preparation of N, S-co-doped activated carbon derived from waste medium density fiberboard for supercapacitors. Bioresources, 2016,11(2):4055-4068
18. Yue, Li, Ru-Quan Ren, Xiao-Juan Jin. Effect of Sulfur Impregnation Temperature on Properties of N-Doped Activated Carbon for Supercapacitor Applications. International Journal of ELECTROCHEMICAL SCIENCE. 2016 (11) :10748 - 10762
19. LAN-SHU XU, FU-LI FAN, XIAO-XU CAI and XIAO-JUAN JIN. ELIMINATION OF Cr(VI) USING ACTIVATED CARBON PREPARED FROM MUSHROOM MEDIUM. Cellulose Chem. Technol., 2017, 51 (1-2):159-165
20. Yue Li, Tong-Xin Shang, Jian-Min Gao and Xiao-Juan Jin\*, Nitrogen-doped activated carbon/graphene composites as high-performance supercapacitor electrodes. RSC Adv., 2017, 7:19098-19105
21. Design and synthesis of graphene/activated carbon/polypyrrole flexible supercapacitor electrodes. Lanshu Xu, Mengying Jia, Yue Li, Shifeng Zhang and Xiaojuan Jin\* RSC Adv., 2017,7:31342-31351
22. Lanshu Xu, Mengying Jia, Yue Li, Xiaojuan Jin & Fan Zhang. High-performance MnO<sub>2</sub>-deposited graphene/activated carbon film electrodes for flexible solid-state supercapacitor. Scientific Reports,(7): 12857-12866
23. Lanshu Xu, Yue Li, Mengying Jia, Qiang Zhao, Xiaojuan Jin, Chunli Yao. Synthesis and characterization of free-standing activated carbon/reduced graphene oxide film electrodes for flexible supercapacitors [J]. Rsc Advances 2017, 7:45066-45074
24. Yue Li, Lanshu Xu, Jianmin Gao and Xiaojuan Jin. Hydrothermal fabrication of reduced graphene oxide/activated carbon/MnO<sub>2</sub> hybrids with excellent electrochemical performance for supercapacitors. RSC Adv., 2017, 7, 39024-39033
25. Lanshu Xu, Yue Li, Mengying Jia, Jianmin Gao, Xiaojuan Jin. Natural organic phytate modified graphene hydrogel for flexible supercapacitor electrodes. Journal of the Electrochemical Society, 2017, 164 (14): A1-A6

申请专利: 1. 一种氧、氮共同负载活性炭电极的制备方法。金小娟, 姚春雨, 尚童鑫, 任汝权, 范福利, 张骥。20151021653.X 2. 一种明胶-苹果木酢液草莓保鲜膜的制备方法。金小娟, 王晓旭, 苏洁, 王烁。201510180809.1  
3. 一种中草药渣浸提液-明胶草莓保鲜膜的制备方法。金小娟, 赵强, 王烁, 苏洁。201510180807.2 4. 一种氧、硫共负载活性炭电极的制备方法。金小娟, 任汝全, 尚童鑫。201510628926.