



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 08:49:45 大同 6~25°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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陈胜

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陈胜 副教授、硕士生导师

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研究方向: 农林生物质结构解译与功能化利用

教育/工作经历

2022.01至今, 北京林业大学, 材料科学与技术学院, 副教授
2020.09-2021/12, 北京林业大学, 材料科学与技术学院, 讲师
2015/09-2020/06, 北京林业大学, 林产化学加工工程, 博士
2018/10-2019/11, 美国威斯康星大学麦迪逊分校, 发现研究所, 联合培养博士研究生
2011/09-2015/07, 北京林业大学, 林产化工(制浆造纸方向), 学士

主讲课程

本科生课程: 《太阳能利用原理与技术》、《生物质发电技术》、《生物质能源专业英语》
研究生课程: 《高等木材化学》、《纸基功能材料》

科研工作及成果

主要从事农林生物质超微结构解译与功能化利用研究, 包括木材细胞壁微区化学及木质纤维素基光管理、能源储存/收集、智能传感、水处理等先进功能材料。迄今在Advanced Functional Material、Nano Energy、ACS Applied Materials & Interfaces等国际知名期刊发表SCI论文30余篇。主持国家自然科学基金青年项目、博士后面上等科研项目。入选“博士后创新人才支持计划”与“北京市科技新星计划”。

奖励及荣誉称号

2020年 北京林业大学优秀博士学位论文
2021年 北京林业大学第十七届青年教学基本功比赛 三等奖

学术/社会兼职

中国化学会会员
中国林学会会员
ACS Applied Materials & Interfaces、Cellulose、Carbohydrate Polymers、Materials等期刊审稿人

发表学术论文

- Zhang, J.; Xu, Y.; Li, X.; Li, H.; Yao, C.; Chen, S.*; Xu, F.* Leak-Free, High Latent Heat and Self-Cleaning Phase Change Materials Supported by Layered Cellulose/Fe₃O₄ Skeleton for Light-to-Thermal Energy Conversion. Energy Conversion and Management 2022, 256, 115357. <https://doi.org/10.1016/j.enconman.2022.115357>.
- Zhang, J.; Mu, J.; Chen, S.*; Xu, F.* Mechanically Strong, Flexible, and Multi-Responsive Phase Change Films with a Nacre-Mimetic Structure for Wearable Thermal Management. Journal of Energy Chemistry 2022, 75, 229-239. <https://doi.org/10.1016/j.jechem.2022.08.003>.
- Wang, J.; Chen, Y.; Xu, Y.; Mu, J.; Li, J.; Nie, S.; Chen, S.*; Xu, F.* Sustainable Lignin-Based Electrospun Nanofibers for Enhanced Triboelectric Nanogenerators. Sustainable Energy Fuels 2022, 6 (8), 1974-1982. <https://doi.org/10.1039/D1SE02005F>.
- Mu, J.; Li, C.; Zhang, J.; Song, X.; Chen, S.*; Xu, F.* Efficient Conversion of Lignin Waste and Self-Assembly Synthesis of C/MnCo₂O₄ for Asymmetric Supercapacitors with High Energy Density. Green Energy & Environment 2022. <https://doi.org/10.1016/j.gee.2022.09.010>.
- Chen, Y.; Li, D.; Xu, Y.; Ling, Z.; Nawaz, H.; Chen, S.*; Xu, F.* Surface-Microstructured Cellulose Films toward Sensitive Pressure Sensors and Efficient Triboelectric Nanogenerators. International Journal of Biological Macromolecules 2022, 208, 324-332. <https://doi.org/10.1016/j.ijbiomac.2022.03.123>.
- Song, Y.; Xu, Y.; Li, D.; Chen, S.*; Xu, F.* Sustainable and Superhydrophobic Lignocellulose-Based Transparent Films with Efficient Light Management and Self-Cleaning. ACS Appl. Mater. Interfaces 2021, 13 (41), 49340-49347. <https://doi.org/10.1021/acsami.1c14948>.
- Song, Y.; Chen, S.*; Chen, Y.; Xu, Y.; Xu, F.* Biodegradable and Transparent Films with Tunable UV-Blocking Property from Lignocellulosic Waste by a Top-down Approach. Cellulose 2021. <https://doi.org/10.1007/s10570-021-03994-5>.
- Guo, S.; Li, H.; Zhang, X.; Nawaz, H.; Chen, S.*; Zhang, X.; Xu, F.* Lignin Carbon Aerogel/Nickel Binary Network for Cubic Supercapacitor Electrodes with Ultra-High Areal Capacitance. Carbon 2021, 174, 500-508. <https://doi.org/10.1016/j.carbon.2020.12.051>.
- Chen, S.; Chen, Y.; Li, D.; Xu, Y.; Xu, F.* Flexible and Sensitivity-Adjustable Pressure Sensors Based on Carbonized Bacterial Nanocellulose/Wood-Derived Cellulose Nanofibril Composite Aerogels. ACS Appl. Mater. Interfaces 2021, 13 (7), 8754-8763. <https://doi.org/10.1021/acsami.0c21392>.
- Chen, S.; Jiang, J.; Xu, F.*; Gong, S.* Crepe Cellulose Paper and Nitrocellulose Membrane-Based Triboelectric Nanogenerators for Energy Harvesting and Self-Powered Human-Machine Interaction. Nano Energy 2019, 61, 69-77. <https://doi.org/10.1016/j.nanoen.2019.04.043>.
- Chen, S.; Song, Y.; Xu, F.* Highly Transparent and Hazy Cellulose Nanopaper Simultaneously with a Self-Cleaning Superhydrophobic Surface. ACS Sustainable Chem. Eng. 2018, 6 (4), 5173-5181. <https://doi.org/10.1021/acssuschemeng.7b04814>.
- Chen, S.; Song, Y.; Xu, F.* Flexible and Highly Sensitive Resistive Pressure Sensor Based on Carbonized Crepe Paper with Corrugated Structure. ACS Appl. Mater. Interfaces 2018, 10 (40), 34646-34654. <https://doi.org/10.1021/acsami.8b13535>.
- Chen, S.; Song, Y.; Ding, D.; Ling, Z.; Xu, F.* Flexible and Anisotropic Strain Sensor Based on Carbonized Crepe Paper with Aligned Cellulose Fibers. Adv. Funct. Mater. 2018, 28 (42), 1802547. <https://doi.org/10.1002/adfm.201802547>.
- Chen, S.; Ling, Z.; Zhang, X.; Kim, Y. S.; Xu, F.* Towards a Multi-Scale Understanding of Dilute Hydrochloric Acid and Mild 1-Ethyl-3-Methylimidazolium Acetate Pretreatment for Improving Enzymatic Hydrolysis of Poplar Wood. Industrial Crops and Products 2018, 114, 123-131. <https://doi.org/10.1016/j.indcrop.2018.02.007>.