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研究方向：新型碳材料、陶瓷基复合材料、非金属矿物及固废材料化利用

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吴小文，男，工学博士，教授、博士生导师，北京高校“青年英才”计划项目入选者。2009年7月毕业于北京航空航天大学获工学博士学位，之后进入中国地质大学（北京）材料学院参加工作，2015-2016年国家公派赴英国伦敦大学学院（University College London）从事访问学者研究工作，合作导师为英国皇家工程院院士 Mohan Edirisinghe 教授。主要研究方向为：新型碳材料、陶瓷基复合材料、非金属矿物及固废材料化利用。主持国家重点研发计划项目子课题、国家自然科学基金面上项目、北京高校“青年英才”计划项目、地质调查项目专题、中央高校基本科研业务费项目和企业横向项目 20 余项。在国内外学术刊物上发表论文 200 余篇，其中 SCI 检索论文 160 余篇。获授权国家发明专利 10 余项，参与编制行业标准 10 余项。参编教材 1 部《复合材料学》。获 2021 年“科创江苏”创新创业大赛二等奖。现为中国非金属矿工业协会石墨专业委员会专家委员会成员，担任 Carbon、Composite Science and Technology、Energy and Building、《航空制造技术》等 20 多个国内外学术期刊审稿人。主讲《复合材料学》《研究生专业英语》、合讲《材料物理》《现代测试技术》《陶瓷材料学》《纳米材料与技术》等本科生及研究生课程。招收材料学、材料物理与化学、资源综合利用、材料与化工等方向的博士和硕士研究生。

主持的科研项目:

1. 国家重点研发计划“固废资源化”重点专项项目子课题:课题名称“典型冶金固废原位协同强化及功能耐火材料研究与示范” (No. 2018YFC1901504) 2018. 12-2022. 11
2. 国家自然科学基金面上项目:多功能纳米碳纤维毡的加压离心纺丝制备技术及性能调控 (No. 51872268) 2019. 1-2022. 12
3. 国家自然科学基金面上项目:复合树脂结合 SiC-ZrN-Sialon-C 复相耐高温材料原位强化机制及性能优化的基础研究 (No. 51372232) 2014. 1-2017. 12
4. 北京高校青年英才计划项目:树脂结合 Sialon-莫来石-C 复相高温材料增强机理的研究 (No. YETP0636) 2013. 7-2016. 6

5. 公益性基础地质调查子项目专题:子项目名称“辽中南城市群地质环境综合调查沈阳经济核心区地质环境综合调查”(No. DD20160266) 专题名称“抚顺矿区煤矸石资源化利用研究”(DD20160266-18-5) 2018. 8-2018. 12

6. 中央高校基本科研业务费优秀教师基金项目:天然石墨基高导热泡沫材料制备工艺及性能研究(No. 2-9-2018-288) 2019. 1-2021. 12

7. 中央高校基本科研业务费优秀教师基金项目:层次孔结构炭材料制备工艺及其吸附性能研究(No. 2-9-2015-106) 2015. 9-2017. 12

8. 中央高校基本科研业务费优秀教师基金项目:利用磷灰石尾矿和废玻璃烧结制备可加工云母陶瓷绝缘子研究(No. 2011YXL061) 2011. 9-2014. 8

9. 中央高校基本科研业务费优秀导师基金项目:离心纺丝法制备 N-Si-TiO₂ 复合纤维及光催化性能研究(No. 2-9-2017-396) 2017. 7-2018. 6

10. 中央高校基本科研业务费国际交流基金项目:炭纳米纤维及含碳耐高温材料国际交流与合作研究(No. 2-9-2017-412) 2017. 7-2018. 12

11. 中央高校基本科研业务费优秀导师基金项目:加压离心纺丝法制备多孔炭纤维及其电化学性能研究(No. 2-9-2016-053) 2016. 10-2017. 9

12. 中央高校基本科研业务费优秀导师基金项目:离心纺丝法制备碳纳米纤维工艺及性能研究(No. 2-9-2015-374) 2015. 9-2016. 8

13. 中央高校基本科研业务费新教师预研项目:树脂/沥青基泡沫炭材料制备工艺及热物理性能研究(No. 2011YYL007) 2011. 1-2011. 12

14. 企业项目:天然石墨基电热膜的研究 2020. 11-2022. 11

15. 企业项目:高纯石英砂及石英(SiO₂)基耐温复合材料的研制 2011. 1-2012. 12

会议报告:

1. 2022 中国(青岛)锂电负极材料技术大会(2022. 06 青岛)

2. 第十五届全国新型炭材料学术研讨会(2021. 10 深圳)

3. 2021 中国(宜昌)石墨新材料发展论坛(2021. 05 宜昌)

4. 第五届中国国际石墨大会(2021. 04 郑州)

5. 第六届全国地学青年论坛(2019. 10 西宁)

6. 第十四届全国新型炭材料学术研讨会(2019. 10 天津)

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7. 第二届矽青年论坛 (2019.08 北京)
 8. 剑桥先进材料研究合作研讨会 (2018.07 北京)
 9. 国际碳科学年度大会 Carbon 2018 (2018.07 西班牙马德里)
 10. 第七届国际耐火材料学术会议 (2016.09 西安)
 11. 第十五届全国耐火材料青年学术报告会 (2016.06 扬州)
 12. 第十一届国际应用矿物学大会 (2013.07 绵阳)

授权专利:

1. 一种煤矸石基免烧型路面砖及其制备方法, 赵海卿, 吴小文, 毛奎, 池朋, 代雅建, 石旭飞, 李旭光, 黄朝晖, 江山, 张梅桂, 专利号: ZL201910175683.7, 授权日期: 2021 年 09 月 14 日
 2. 一种石墨烯/碳复合微纳米纤维及其制备方法, 吴小文, 张培云, 赵航, 黄朝晖, 刘艳改, 房明浩, 闵鑫, 专利号: ZL201811355157.0, 授权日期: 2020 年 03 月 13 日
 3. 一种以蔗糖为粘结剂的铜碳复合材料制备方法, 吴小文, 张鑫, 段生治, 黄朝晖, 闵鑫, 房明浩, 刘艳改, 专利号: ZL201811355193.7, 授权日期: 2020 年 05 月 22 日
 4. 一种利用废玻璃和金云母制备可加工性云母玻璃陶瓷绝缘材料的方法, 吴小文, 罗炳程, 曾诚, 郭金鑫, 专利号: ZL201310495489.X, 授权日期: 2018 年 04 月 13 日
 5. 一种泡沫炭表面原位合成 Si_3N_4 涂层的方法, 吴小文, 袁学友, 专利号: ZL201310495482.8, 授权日期: 2017 年 12 月 08 日
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 7. 一种光源角度可调的小型光催化反应器设备, 吴小文, 毛奎, 程伯豪, 黄朝晖, 专利号: ZL201821874864.6, 授权日期: 2019 年 08 月 06 日
 8. 一种氮化镁基六铝酸镧荧光材料及其制备方法, 闵鑫, 房明浩, 黄朝晖, 刘艳改, 吴小文, 唐潮, 专利号 ZL2013103974082, 授权日期: 2014 年 11 月 26 日
 9. 一种利用蓝晶石选矿尾矿转型转相制备 Sialon/ Si_3N_4 -SiC 复相耐高温材料的制备方法, 房明浩, 闵鑫, 黄朝晖, 刘艳改, 吴小文, 张丽娜, 张俊东, 专利号 ZL 2015109077361, 授权日期: 2018 年 10 月 19 日
 10. 一种 SiBON 透波材料的制备方法, 唐潮, 房明浩, 黄朝晖, 刘艳改, 吴小文, 闵鑫, 专利号: ZL201310026180.6, 授权日期: 2017 年 08 月 25 日
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12. 一种制备炭/炭构件的新型液相气化渗透沉积装置, 罗瑞盈, 章劲草, 吴小文, 宋国英. 中国专利: 1135103, 授权日期: 2008 年 11 月 26 日

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9. Weiyi Zhang, Can He, Xiaowen Wu *, Ximing Huang, Fankai Lin, Yan' gai Liu, Minghao Fang, Xin Min and Zhaohui Huang*, Yellow Emission Obtained by Combination of Broadband Emission and Multi-Peak Emission in Garnet Structure Na₂YMg₂V₃O₁₂: Dy³⁺ Phosphor, Molecules 2020, V25: 542

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16. Shengzhi Duan, Xiaowen Wu*, Xin Min, Zhaohui Huang, Tianyang Yue, Wen Yue, Minghao Fang and Yangai Liu. Effect of purity and proportion of microcrystalline graphite ore on the electrical,

mechanical and tribological, performance of copper-carbon composites, *Materials Research Express*. 2019, V6: 125604

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20. Haiyan Zhang, Yangai Liu, Xiaowen Wu*, Xiaozhao Jin, Zhijie Zhang, Hang Zhao, Jia Liu, Zhaohui Huang, Minghao Fang, and Xin Min. Kinetics and equilibrium studies of the adsorption of methylene blue on Euryale ferox shell-based-activated-carbon. *Micro & Nano Letters*, 2018, V13(4): 552-557

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