


# 个人简历

(一) 基本信息							
姓 名	南文光	性 别	男	出生年月	1988. 11		
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工作单位	南京工业大学机械与动力工程学院				职称		副教授
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(二) 研究方向							
<p>1. 颗粒流动力学：揭示颗粒形状和黏附性对颗粒流变特性的影响机制，完善不同流态中颗粒物质动力学本构方程，并发展基于该本构方程的颗粒流动的连续介质模拟方法；</p> <p>2. 增材制造：探究狭窄通道、高剪切应变率、高黏附性和气流卷吸复杂条件下的颗粒动力学机理；发展以超薄粉层为研究对象的粉体铺粉性测试和表征技术；探究超薄粉层在狭窄间隙区的颗粒动态堵塞问题，并推进新的高效铺粉技术。</p>							
(三) 教育经历							
<p>1. 2015/10–2016/10，英国利兹大学，颗粒科学与技术研究所，博士，导师：Mojtaba Ghadiri 院士（FREng, CEng, FICHEM, <a href="https://ghadiri-group.leeds.ac.uk/">https://ghadiri-group.leeds.ac.uk/</a>）</p> <p>2. 2011/09–2017/06，西安交通大学，动力工程及多相流国家重点实验室，博士，导师：王跃社教授（郭烈锦院士团队）</p> <p>3. 2007/09–2011/06，河海大学，热能与动力工程，学士</p>							
(四) 科研与学术工作经历							
<p>1. 2021/01–至今，英国利兹大学，Virtual Visiting Researcher, Mojtaba Ghadiri 院士</p> <p>2. 2017/09–至今，南京工业大学，机械与动力工程学院，助理教授/副教授</p> <p>3. 2018/06–2018/09，利兹大学，化学过程工程学院，访问学者，Mojtaba Ghadiri 院士</p>							
(五) 科研项目（课题）情况							
<p>1. 国家自然科学基金，51806099，颗粒形状对颗粒物质流变特性的影响机制研究，2019/01–2021/12，完成</p> <p>2. 国际合作：参与利兹大学 Mojtaba Ghadiri 院士主持的 HP 3D 打印粉体技术项目以及 EPSRC Future Formulation Programme (EP/N025261/1)</p>							
(六) 期刊论文（一作 SCI 论文 14 篇，中科院 2 区 Top）							

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URL: <https://doi.org/10.1016/j.powtec.2022.117634>
- [2] **Nan Wenguang**, Gu Yiqing. Experimental investigation on the spreadability of cohesive and frictional powder. *Advanced Powder Technology*, 2022, 33:103466. URL: <https://doi.org/10.1016/j.appt.2022.103466>
- [3] **Nan Wenguang**, Pasha Mehrdad, Ghadiri Mojtaba. Rheology of a dense granular bed penetrated by a rotating impeller. *Powder Technology*, 2021, 386: 60-69. URL: <https://doi.org/10.1016/j.powtec.2021.03.029>
- [4] **Nan Wenguang**, Gu Yiqing. Stress analysis of blade rheometry by DEM simulations. *Powder Technology*, 2020, 376: 332-341. URL: <https://doi.org/10.1016/j.powtec.2020.08.026>
- [5] **Nan Wenguang**, Pasha Mehrdad, Ghadiri Mojtaba. Effect of gas-particle interaction on roller spreading process in additive manufacturing. *Powder Technology*, 2020, 372: 466-476.  
URL: <https://doi.org/10.1016/j.powtec.2020.05.119>
- [6] Ahmed Moustafa, Pasha Mehrdad, **Nan Wenguang**, Ghadiri Mojtaba. A simple method for assessing powder spreadability for additive manufacturing. *Powder Technology*, 2020, 367: 671-679.  
URL: <https://doi.org/10.1016/j.powtec.2020.04.033>
- [7] **Nan Wenguang**, Pasha Mehrdad, Ghadiri Mojtaba. Numerical simulation of particle flow and segregation during roller spreading process in additive manufacturing. *Powder Technology*, 2020, 364: 811-821.  
URL: <https://doi.org/10.1016/j.powtec.2019.12.023>
- [8] Ghadiri Mojtaba, Pasha Mehrdad, **Nan Wenguang**, Hare Colin, Vivacqua Vincenzino, Zafar Umair, Nezamabadi Saeid, Lopez Alejandro, Pasha Massih, Nadimi Sadegh. Cohesive powder flow: Trends and challenges in characterisation and analysis. *KONA Powder and Particle Journal*, 2020, 37: 3-18.  
URL: <https://doi.org/10.14356/kona.2020018>
- [9] **Nan Wenguang**, Wang Yueshe, Sun Houhuan. Experimental investigation on the packed bed of rodlike particles. *Advanced Powder Technology*, 2019, 30: 2541-2547. URL: <https://doi.org/10.1016/j.appt.2019.07.034>
- [10] **Nan Wenguang**, Ghadiri Mojtaba. Numerical simulation of powder flow during spreading in additive manufacturing. *Powder Technology*, 2019, 342: 801-807. URL: <https://doi.org/10.1016/j.powtec.2018.10.056>
- [11] **Nan Wenguang**, Pasha Mehrdad, Bonakdar Tina, Lopez Alejandro, Zafar Umair, Nadimi Sadegh, Ghadiri Mojtaba. Jamming during particle spreading in additive manufacturing. *Powder Technology*, 2018, 338: 253-262. Google Scholar 被引次数超过 100. URL: <https://doi.org/10.1016/j.powtec.2018.07.030>
- [12] **Nan Wenguang**, Ghadiri Mojtaba, Wang Yueshe. Analysis of powder rheometry of FT4: Effect of particle shape. *Chemical Engineering Science*, 2017, 173: 374-383. URL: <https://doi.org/10.1016/j.ces.2017.08.004>
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- [18] **Nan Wenguang**, Wang Yueshe, Ge Yuan, Wang Jianzhong. Effect of shape parameters of fiber on the packing structure. *Powder Technology*, 2014, 261: 210-218. URL: <https://doi.org/10.1016/j.powtec.2014.04.048>
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- [21] 南文光, 王跃社, 葛渊, 等. 柔性纤维简单剪切流场中的运动特性研究. *应用力学学报*, 2014, 31(05): 727-733.