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教授

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孙树峰

教授 博士生导师 山东省泰山学者特聘专家

最高学历: 博士研究生
从事专业: 机械设计制造及自动化
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个人简介

山东诸城市人，博士，教授，博士生导师。山东省泰山学者特聘专家，青岛市创业创新领军人才，青岛西海岸新区领军人才。中国机械工程学会成组与智能集成技术分会委员，山东省高层次人才发展促进会先进制造专业委员会委员。高等学校学科创新引智计划—高端激光智能制造技术与装备创新引智基地、山东省激光绿色智能制造技术与装备协同创新中心、山东省激光绿色智能制造技术高校重点实验室、山东省激光与绿色高效制造工程研究中心、青岛市激光智能制造技术与装备工程研究中心以及青岛市激光精密微纳制造技术与装备国际合作基地负责人。主要从事特种加工技术及装备（激光精密微纳制造、3D打印）、精密机械设计与制造、CAD/CAM和数控技术等方面的研究。主持/参与研究的项目主要包括国家自然科学基金、科技部重大专项、省泰山学者专项、省国际合作重大专项、省自然科学基金、省市科技计划和企业委托开发项目等各类科研项目20余项；发表学术论文和著作50余篇/部；获授权国家专利40余项；研究成果获省科学技术奖一等奖、市科技进步三等奖、中国商业联合会二等奖等各类奖项7项。

Sun Shufeng, Ph.D, Professor, Doctoral supervisor. Distinguished Expert of Taishan Scholars in Shandong Province, Leading talents of entrepreneurship and innovation in Qingdao, Leading talents in Qingdao West Coast New Area. Member of the Group and Intelligent Integration Technology Branch of the Chinese Mechanical Engineering Society, Member of Advanced Manufacturing Professional Committee of Shandong High-level Talents Development Promotion Association.

The head of the Overseas Expertise Introduction Base for Discipline Innovation of High-end Laser Intelligent Manufacturing Technology and Equipment ("111 project"), Shandong Collaborative Innovation Center of Laser Green Intelligent Manufacturing Technology and Equipment, Shandong Key Laboratory of Laser Green Intelligent Manufacturing Technology, Shandong Research Center of Laser Green Efficient Intelligent Manufacturing Engineering and Technology, Qingdao Research Center of Laser Intelligent Manufacturing Technology and Equipment and Qingdao International Cooperation Base for Laser Precision Micro-Nano Manufacturing Technology and Equipment. Mainly engaged in the research of special processing technology and equipment (laser precision micro-nano manufacturing and 3D printing), precision machinery design and manufacturing, CAD/CAM and numerical control technology. The projects hosted/participated in the research mainly include more than 20 scientific research projects such as the National Natural Science Foundation of China, Major Projects of Ministry of Science and Technology, Taishan Scholars Special Project of Shandong Province, Natural Science Foundation of Shandong Province, and International Cooperation Major Special Projects of Shandong Province. A total of more than 50 academic papers and books have been published, and more than 40 national invention patents have been authorized. The research results have won 7 awards including the first prize of the Provincial Science and Technology Award, the third prize of the Municipal Science and Technology Progress Award, and the second prize of the Science and Technology Award of China General Chamber of Commerce.

教育经历

2009年9月-2013年6月, 浙江工业大学机械电子工程专业, 工学博士。

2001年9月-2004年6月, 山东大学机械电子工程专业, 工学硕士。

1989年9月-1993年6月, 合肥工业大学机械电子工程专业, 工学学士。

2009.09-2013.06, Zhejiang University of Technology, Mechatronics Engineering, Doctor of Engineering.

2001.09-2004.06, Shandong University, Mechatronics Engineering, Master of Engineering.

1989.09-1993.06, Hefei University of Technology, Mechatronics Engineering, Bachelor of Engineering.

工作经历

2016.01-至今, 青岛理工大学机械与汽车工程学院, 教授、博导、泰山学者特聘专家。

2004.07-2015.12, 温州大学机电工程学院, 特聘教授。

期间: 2014.07-2014.08, 韩国浦项科技大学, 访问学者。

2013.01-2013.03, 日本大阪大学、日本宇都宫大学, 访问学者

2011.09-2012.08, 新加坡国立大学, 访问学者。

1996.12-2001.08, Alignment tool(s) PTE LTD, Singapore, 技术部, 工程师。

1993.07-1996.11, 济南二机床集团公司, 助工。

2016.01-present, School of Mechanical Engineering, Qingdao University of Technology, Professor, PhD supervisor, and Distinguished Expert of Taishan Scholars in Shandong Province.

2004.07-2015.12, School of Mechanical and Electrical Engineering, Wenzhou University, Distinguished Professor.

2014.07-2014.08, visiting scholar of Pohang University of Science and Technology in South Korea.

2013.01-2013.03, visiting scholar of Osaka University and Utsunomiya University in Japan.

2011.09-2012.08, visiting scholar of National University of Singapore.

1996.12-2001.08, Engineer in Technology Department of Alignment tool(s) PTE LTD, Singapore.

1993.07-1996.11, Assistant of Jinan No.2 Machine Tool Group Company, Assistant engineer.

学术兼职

2017年3月-至今, 中国机械工程学会成组与智能集成技术分会, 委员

2016年9月-至今, 山东省高层次人才发展促进会先进制造专业委员会, 委员

2017.03-present, Group and Intelligent Integration Technology Branch of the Chinese Mechanical Engineering Society, Member.
2016.09-present, Advanced Manufacturing Professional Committee of Shandong High-level Talents Development Promotion Association, Member.

教学情况

主授课程

制造科学与工程, 激光制造技术, 机械制造工艺学, 专业英语等。

Manufacturing Science and Engineering, Laser Manufacturing Technology, Machinery Technology, Professional English for Mechanical Engineering, etc.

科研情况

研究领域

激光制造技术, 精密机械设计与制造技术, CAD/CAM技术等。

Laser manufacturing technology, precision machinery design and manufacturing technology, CAD/CAM technology, etc.

科研著作

激光微纳制造技术, 科学出版社, 2020

Laser Micro-Nano Manufacturing Technology, Science Press, 2020

科研项目

[1] 国家自然科学基金面上项目: 新型陶瓷基复合材料叶片气膜孔激光-高温化学复合加工技术研究 (51775289), 国家自然科学基金委, 60万元, 2018.01-2021.12, 排名第一.

[2] 国家科技部发展中国家技术培训班项目: 激光智能制造技术与装备国际培训班 (2021). 中华人民共和国科学技术部, 40.0658万元, 2020年, 排名第一.

[3] 国家科技部发展中国家技术培训班项目: 激光智能制造技术与装备国际培训班 (1939). 中华人民共和国科学技术部, 38.8988万元, 2019年, 排名第一.

[4] 国家留学回国人员创业启动支持计划重点项目: 高端激光制造技术及装备研发和产业化 (人社厅函[2019]159号). 中华人民共和国人力资源和社会保障部, 50万元, 2019-2021, 排名第一.

[5] 国家自然科学基金青年基金项目: 低温石墨烯/离子液纳米流体微量润滑磨削界面换热及摩擦学机理研究 (51705272), 国家青年科学基金项目, 22万元, 2018.01-2020.12, 排名第二.

[6] 山东省自然科学基金重大基础研究项目: 航空发动机微细气膜孔激光高温化学复合加工方法及其工艺装备研究 (ZR2018ZB0524), 山东省

自然科学基金委, 120万元, 2018.03-2020.12, 排名第一.

[7] 山东省重点研发计划 (重大关键技术) 项目: 导光板散射网点激光高效精密自动加工技术及装备研发与产业化 (2016ZDJS02A15), 山东省科技厅, 2000万元, 2016.01-2018.12, 排名第一.

[8] 西部经济隆起带和省扶贫开发重点区域引进急需紧缺人才支持项目: 基于激光微纳制造技术的高端医用手术缝合针的研发应用, 山东省发改委, 75万元, 2016.01-2018.12.

[9] 山东省重点研发计划重大科技创新工程项目: 氮化铝陶瓷封装基片的新型激光活化技术及其装备研究 (2019JZZY010402), 山东省科技厅, 660万元, 2019.01-2021.12, 排名第二.

[10] 山东省重点研发计划 (公益性科技攻关类) 项目: 面向导光板散射网点的激光并行加工方法研究 (2019GGX104097), 山东省科技厅, 20万元, 2019.01-2021.12, 排名第二.

[11] 山东省重点研发计划 (公益性科技攻关类) 项目: 手持式激光清洗航空航天零组件的动态补偿技术研究 (2019GGX104106), 山东省科技厅, 20万元, 2019.07-2022.07, 排名第二.

[12] 青岛市科技计划项目: 激光精密微纳制造技术及装备 (16-8-3-33-zhc), 青岛市人民政府, 100万元, 2017.01-2019.12, 排名第一.

[13] 青岛西海岸新区重大科技项目: 注塑模具激光清洗技术研发及应用 (2018-25). 青岛西海岸新区2018年度科技项目, 200万元, 2019.01-2020.03, 排名第一.

[14] 潍坊市科技计划项目: 适应于极端寒冷环境的高铁传动箱体铸造技术研发 (2017ZJ1136), 潍坊市科技局, 20万元, 2017.01-2018.12.

[15] 温州市科技计划项目: 导光板散射网点激光加工技术及工艺研究 (G20170014), 温州市科技局, 5万元, 2018.01-2019.12, 排名第一.

[16] 横向项目: 基于激光微纳制造技术的高端医用缝合针制造装备研发 (20173702010947), 单县润康缝合材料有限公司, 101.5万元, 2017.01-2018.12, 排名第一.

[17] 横向项目: 高端智能装备制造咨询与服务, 青岛英菲尼特智能装备有限公司, 5万元, 2016, 排名第一.

[18] 温州市科技计划项目: 基于超快脉冲激光的高质量微孔加工技术及工艺研究 (G20140052), 温州市科技局, 8万元, 2015.01-2016.12, 排名第一.

[19] 浙江省钱江人才计划项目: 基于飞秒激光的航空发动机叶片微细冷却孔加工技术研究 (QJD1402011), 浙江省人力资源和社会保障厅, 5万元, 2014.10-2016.12, 排名第一.

[20] 浙江省国际合作重大项目: 喷油器微细喷油孔飞秒激光高效精密自动加工技术及装备研发 (2012C14026), 浙江省科技厅, 360万元, 2013.01-2015.12, 排名第一.

[1] National Natural Science Foundation of China: Technology research of laser-high temperature chemical hybrid processing the air film hole on new ceramic matrix composite blades(51775289), National Natural Science Foundation of China, RMB 600,000, 2018.01-2021.12, ranking first.

[2] Technical Training Program for Developing Countries of the Ministry of Science and Technology: International Training Course on Laser Intelligent Manufacturing Technology and Equipment (2021). Ministry of Science and Technology of the People's

Republic of China, RMB 400,658, ranking first in 2020.

[3] Technical Training Program for Developing Countries of the Ministry of Science and Technology: International Training Course for Laser Intelligent Manufacturing Technology and Equipment (1939). Ministry of Science and Technology of the People's Republic of China, RMB 388,988, ranked first in 2019.

[4] The Key Projects of the Start-up Support Plan for Return Overseas Chinese Students: high-end laser manufacturing technology and equipment R&D and industrialization (Letter from the Department of Human Resources and Social Security [2019] No.159). Ministry of Human Resources and Social Security of the People's Republic of China, RMB 500,000, 2019-2021, ranking first.

[5] National Natural Science Youth Fund Project: Research on Interface Heat Transfer and Tribological Mechanism of Low-temperature Graphene/Ionic Liquid Nanofluid Micro-Lubrication Grinding (51705272), National Youth Science Fund project, RMB 220,000, 2018.01-2020.12, ranking second.

[6] The Major Basic Research Project of Shandong Provincial Natural Science Foundation: Research on Laser High-temperature Chemical Composite Machining Method and Process Equipment of Aero-engine Micro Air Film Holes (ZR2018ZB0524), Natural Science Foundation of Shandong Province, RMB 1,200,000, 2018.03-2020.12, ranking first.

[7] Shandong Province Key R&D Program (Major Key Technology) Project: R&D and industrialization of laser high-efficiency and precise automatic processing technology and equipment for light guide plate scattering dots(2016ZDJS02A15), Department of Science and Technology of Shandong province, RMB 20,000,000, 2016.01-2018.12, ranking first.

[8] Support Projects for the Introduction of Urgently-needed Talents in the Western Economic Uplift Zone and Key Areas for Poverty Alleviation and Development in the Province: Development and application of high-end medical surgical suture needles based on laser micro-nano manufacturing technology, Shandong Development and Reform Commission, RMB 750,000, 2016.01-2018.12.

[9] Key Scientific and Technological Innovation Projects of Shandong Province' s Key R&D Program: Research on New Laser Activation Technology and Equipment of Aluminum Nitride Ceramic Package Substrate (2019JZZY010402), Department of Science and Technology of Shandong province, RMB 6,600,000, 2019.01-2021.12, ranking second.

[10] Shandong Province Key R&D Program (Public Welfare Science and Technology Research) Project: Research on Laser Parallel Processing Method for Scattering Dots of Light Guide Plate (2019GGX104097), Department of Science and Technology of Shandong province, RMB 200,000, 2019.01-2021.12, ranking second.

[11] Shandong Province Key R&D Program (Public Welfare Science and Technology Research) Project: Research on Dynamic Compensation Technology of Handheld Laser Cleaning Aerospace Components (2019GGX104106), Department of Science and Technology of Shandong province, RMB 200,000, 2019.07-2022.07, ranking second.

[12] Qingdao Science and Technology Plan Project: Laser precision micro-nano manufacturing technology and equipment (16-8-3-33-zhc), Qingdao Municipal People's Government, RMB 1,000,000, 2017.01-2019.12, ranking first.

- [13] Major science and Technology Projects in Qingdao West Coast New District: R&D and application of laser cleaning technology for injection molds (2018-25). Science and Technology projects of Qingdao West Coast New District in 2018, RMB 2,000,000, 2019.01-2020.03, ranking first.
- [14] Weifang Science and Technology Plan Project: Research and development of casting technology for high-speed rail transmission case adapted to extreme cold environments (2017ZJ1136), Weifang Science and Technology Bureau, RMB 200,000, 2017.01-2018.12.
- [15] Wenzhou Science and Technology Project: Research on laser processing technology and technology of light guide plate scattering dots (G20170014), Wenzhou Science and Technology Bureau, RMB 50,000, 2018.01-2019.12, ranking first.
- [16] Horizontal project: Research and development of high-end medical suture needle manufacturing equipment based on laser micro-nano manufacturing technology (20173702010947), Shanxian Runkang Suture Material Co., Ltd., RMB 1,015,000, 2017.01-2018.12, ranking first.
- [17] Horizontal project: High-end intelligent equipment manufacturing consulting and services, Qingdao Infinite Intelligent Equipment Co., Ltd., RMB 50,000, 2016, ranking first.
- [18] Wenzhou Science and Technology Plan Project: Research on high-quality micro-hole machining technology and process based on ultrafast pulse laser (G20140052), Wenzhou Science and Technology Bureau, RMB 80,000, 2015.01-2016.12, ranking first.
- [19] Zhejiang Qianjiang Talent Plan Project: Research on Processing Technology of Micro-cooling Holes in Aero-engine Blades Based on Femtosecond Laser (QJD1402011), Zhejiang province Human Resources and Social Security Department, RMB 50,000, 2014.10-2016.12, ranking first.
- [20] Major international cooperation projects in Zhejiang Province: Femtosecond laser high-efficiency and precision automatic processing technology and equipment research and development of fine fuel injection holes for fuel injectors (2012C14026), Zhejiang Science and Technology Department, RMB 3,600,000, 2013.01-2015.12, ranking first.

科研论文

- [1] Jin Wang, Yoshio Hayasaki, Fengyun Zhang, Xi Wang, Shufeng Sun*. Variable scattering dots laser processing light guide plate microstructures with arbitrary features and arrangements. *Optics and Laser Technology*, 2020, 136: 106732. doi: 10.1016/j.optlastec.2020.106732. (SCI 收录)
- [2] Guoliang Liu, Turul zel, Jianming Li, Dexiang Wang, Shufeng Sun*. Optimization and fabrication of curvilinear micro-grooved cutting tools for sustainable machining based on finite element modelling of the cutting process[J]. *International Journal of Advanced Manufacturing Technology*, 2020, 110:1327–1338. (SCI 收录)
- [3] Zhang qiang, Sun Shufeng*, Zhang Fengyun, Wang jin, Lv qiangqiang, Shao yong, Liu qingyu, Shao jing, Liu xinfu, Zhang yan. A study on film hole drilling of IN718 superalloy via laser machining combined with high temperature chemical etching [J]. *The*

- International Journal of Advanced Manufacturing Technology, 2020, 106: 155-162. Doi:10.1007/s00170-019-04541-0. (SCI 收录)
- [4] 王德祥, 孙树峰*, 唐沂珍, 刘新福, 江京亮. 微量润滑磨削界面的分子动力学模拟, 西安交通大学学报, 2020, 54(12): 168-175. (EI 收录)
- [5] Jingliang Jiang*, Shufeng Sun, Dexiang Wang, Yong Yang, Xinfu Liu. Surface texture formation mechanism based on the ultrasonic vibration-assisted grinding process. International Journal of Machine Tools and Manufacture, 2020, 156, 103595: 1-21. (SCI 收录)
- [6] Jian Zhang*, Manjiang Yu, Zhuoyuan Li, Yang Liu, Qingmao Zhang, Rui Jiang, ShufengSun. The effect of laser energy density on the microstructure, residual stress and phase composition of H13 steel treated by laser surface melting. Journal of Alloys and Compounds, 2020, 856, 158168: 1-12. (SCI 收录)
- [7] 张若兰, 邵晶*, 聂真威, 吕占伟, 王燕, 孙树峰. 短相干照明与偏振相结合的水下远距离成像, 光学精密工程, 2020, 28(7): 1485-1493. (EI 收录)
- [8] Wu Na*, Hu Yongfang, Shufeng Sun. Microstructure Characterization and Interfacial Reactions between Au-Sn Solder and Different Back Metallization Systems of GaAs MMICs, Materials, 2020, 13(6), 1266. <https://doi.org/10.3390/ma13061266>. (SCI 收录)
- [9] Katarina Monkova*, Shufeng Sun, Peter Pavol Monka, Sergej Hloch, Miroslav Belan. Durability and tool wear investigation of HSSE-PM milling cutters within long-term tests [J]. Engineering Failure Analysis, 2020, 108, 104348: 1-13. (SCI 收录)
- [10] Wang Yuling, Li Cheng, Sun Shufeng*, Jiang Fulin, Liu Shanyong. Experiment and study in laser-chemical combined machining of silicon carbide on grooves microstructure. Materials Research Express, 2019, 6:075106, <https://doi.org/10.1088/2053-1591/ab18ec>. (SCI 收录)
- [11] Fengyun Zhang, Xiaojie Sun, Jin Wang, Qiang Zhang, Shufeng Sun*. Extraction enhancement and mechanism of light rare earth elements (III) in chloride medium through adding complexing agent and synergistic effect [J]. Separation Science and Technology. 2020, 55(18): 3375-3385. (SCI 收录)
- [12] Wang Jin, Sun Shufeng*, Liu Qingyu, Shao jing, Zhang fengyun, Zhang Qiang. Effects of laser processing parameters on glass light guide plate scattering dot performance[J]. Optics and Laser technology, 2019, 115: 90-96. (SCI 收录)
- [13] Dexiang Wang*, Shufeng Sun, Jingliang Jiang, Xinfu Liu. From the grain/workpiece interaction to the coupled thermal-mechanical residual stresses: an integrated modeling for controlled stress grinding of bearing ring raceway. The International Journal of Advanced Manufacturing Technology, 2019, 101: 475-499. (SCI 收录)
- [14] Jin Wang*, Lihua Li, Pen Zhou, Xu Wang, Shufeng Sun. Improving formability of sheet metals in incremental forming by equal diameter spiral tool path. The International Journal of Advanced Manufacturing Technology, 2019, 101: 225-234. (SCI 收录)
- [15] 孙树峰*, 王萍萍. 飞秒激光双光子聚合加工微纳结构[J]. 红外与激光工程, 2018, 47(12): 64-68. (EI 收录)
- [16] Zhang Huafeng, Sun Shufeng*, Liu Changsong, Zhu Yuguo, Liu Qingyu, Wang Yongwu, Wang Jin, Wang Mingyu. Effect of Annealing Process on Properties of Ferritic Ductile Iron for Subway[J]. Science of Advanced Materials, 2018, 10(11): 1658-1663. (SCI 收录)

- [17] Jiang Fulin, Liu Zhanqiang, Yang Fazhan, Zhong Zhaolin, Sun Shufeng*. Investigations on tool temperature with heat conduction and heat convection in high-speed slot milling of Ti6Al4V[J]. The International Journal of Advanced Manufacturing Technology, 2018, 96: 1847-1858. (SCI 收录)
- [18] 王德祥, 孙树峰*, 颜丙亮, 刘新福, 江京亮. 已加工表面热源模型研究及磨削温度场数值模拟[J]. 西安交通大学学报, 2018, 52(4): 84-89. (EI 收录)
- [19] Wang Dexiang*, Ge Peiqi, Sun Shufeng, Jiang Jingliang, Liu Xinfu. Investigation on the heat source profile on the finished surface in grinding based on the inverse heat transfer analysis[J]. International Journal of Advanced Manufacturing Technology, 2017, 92, (1-4): 1201-1216. (SCI 收录)
- [20] Jiang Jingliang*, Ge Peiqi, Sun Shufeng, Wang Dexiang. The theoretical and experimental research on the bearing inner ring raceway grinding process aiming to improve surface quality and process efficiency based on the integrated grinding process model[J]. International Journal of Advanced Manufacturing Technology, 2017, (5): 1-19. (SCI 收录)
- [21] Wang Dexiang*, Sun Shufeng, Jiang Jingliang, Liu Xinfu. The profile analysis and selection guide for the heat source on the finished surface in grinding[J]. Journal of Manufacturing Processes, 2017, 30: 178-186. (SCI 收录)
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