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首页 学院概况 学院动态 本科教育 研究生培养 科学研究 实验室建设 学生与党建 校友之窗 就业实习信息



研究领域:

最终学位: 博士

办公电话: 0755-26558509

导师资格: 硕士生导师

光学元件精密成形工艺与装备；
精密模具加工及其表面改性；
特种塑性成形工艺及理论。

主讲本科课程：

工程制图；
材料力学。

主讲研究生课程：

有限元分析及应用。

教育背景：

2006.08-2010.07 哈尔滨工业大学，微系统与微结构制造重点实验室，博士；
2004.08-2006.07 哈尔滨工业大学，金属精密热加工重点实验室，硕士；
2000.09-2004.07 湘潭大学，机械工程学院，学士。

工作经历：

2019.12- 深圳大学，机电与控制工程学院，教授；
2013.12-2019.11 深圳大学，机电与控制工程学院，副教授；
2010.07-2013.11 深圳大学，机电与控制工程学院，讲师。

主持项目：

9. 深港创新圈联合研发项目, SGDX20190919094403772, 研发精密玻璃功能微纳结构的辊对板热压印加工技术及装备, 2020/10-2022/09, 300万元, 在研, 主持;
8. 中央军委科技委国防科技创新特区项目,*****调控研究, 2018/11-2020/10, 100万元, 在研, 主持;
7. 广东省自然科学基金项目, 2018A030313466, 光学玻璃精密模压成形工艺基础研究, 2018/05-2021/04, 10万元, 在研, 主持;
6. 中央军委装备发展部预研基金重点项目, 6140923020301, *****成形技术, 2018/01-2020/12, 20万元, 在研, 深圳大学方主持;
5. 深港创新圈联合研发项目, SGLH20150213170331329, 精密玻璃光学显微结构的微纳印压装置及加工技术之研发, 2015/11-2018/10, 300万元, 已结题, 主持;
4. 中国兵器工业第五九研究所项目, 构件成形过程摩擦润滑及对表面作用机制, 2015/07-2015/11, 9.6万元, 已结题, 主持;
3. 深圳市基础研究项目, JCYJ20150625102923775, 金属薄板高分子粉末介质软模微成形工艺与应用基础研究, 2015/10-2017/09, 30万元, 已结题, 主持;
2. 国家自然科学基金青年科学基金项目, 51205258, 薄板微成形摩擦尺寸效应及其模具表面固体润滑薄膜改性研究, 2013/01-2015/12, 25万元, 已结题, 主持;
1. 广东高校优秀青年创新人才培养项目, 2012LYM-0113, T2紫铜盒形件微拉深成形研究, 2012/12-2014/12, 3万元, 已结题, 主持.

代表期刊论文：

SCI收录期刊论文：

- [29] Feng Guo, Kangsen Li, Xinfang Huang, Zhiwen Xie*, Feng Gong*. Understanding the wear failure mechanism of TiAlSiCN nanocomposite coating at evaluated temperatures. *Tribology International*. 2021, 154: 106716(8pp).
- [28] Yanlong Li, Kangsen Li, Feng Gong*. Fabrication and optical characterization of polymeric aspherical microlens array using hot embossing technology. *Applied Sciences*. 2021, 11: 882(12pp).
- [27] Kangsen Li, Gang Xu, Xiaohua Liu, Feng Gong*. Deformation behavior of glass nanostructures in hot embossing. *ACS Applied Materials & Interfaces*. 2020, 12: 36311-36319.

- [26] Jiaqi Ran, Guoqing Zhang, Gangping Chen, Jilai Wang, Banglin Deng, Mikhail Petrovich Kuz'min, Teng Xu*, Feng Gong*. A multi-strain-rate damage model on fracture prediction in single-point diamond turning process. 2020, 110: 2753-2765.
- [25] Feng Guo, Xinfang Huang, Zhiwen Xie*, Kangsen Li, Feng Gong*, Yongjun Chen, Qiang Chen. Understanding the age-hardening mechanism of CrWN coating. Thin Solid Films. 2020, 711: 138298(5pp).
- [24] Kangsen Li, Gang Xu, Hexi Luo, Xiaohua Liu, Feng Gong*. Glass flow behaviors in micro-channels during hot embossing. Ceramics International. 2020, 46: 21517-21526.
- [23] Kangsen Li, Xinfang Huang, Qiang Chen, Gang Xu, Zhiwen Xie*, Yuanyuan Wan, Feng Gong*. Flexible fabrication of optical glass micro-lens array by using contactless hot embossing process. Journal of Manufacturing Processes. 2020, 57: 469-476.
- [22] Kangsen Li, Gang Xu, Xinfang Huang, Qiang Chen, Zhiwen Xie*, Feng Gong*. Surface evolution analysis of CrxWyNz coatings on WC mold in glass molding process. Surface & Coatings Technology. 2020, 393: 125839(8pp).
- [21] Xinfang Huang, Zhiwen Xie*, Kangsen Li, Qiang Chen, Yongjun Chen, Feng Gong*. Thermal stability of CrWN glass molding coatings after vacuum annealing. Coatings, 2020, 10: 198(11pp).
- [20] Kangsen Li, Kai Jiang, Gang Xu, Xiaohua Liu, Feng Gong*. Experimental and simulated analysis of glass deformation and filling modes during partial-filling hot embossing process. Ceramics International. 2020, 46: 8059-8067.
- [19] Xinfang Huang, Zhiwen Xie*, Kangsen Li, Qiang Chen, Feng Gong*, Yongjun Chen, Bo Feng, Suying Hu, Yan Chen, Bing Han, Di Wu. Microstructure, wear and oxidation resistance of CrWN glass molding coatings synthesized by plasma enhanced magnetron sputtering. Vacuum. 2020, 174: 109206(12pp).
- [18] Zhiwen Xie, Feng Guo, Xinfang Huang, Kangsen Li, Qiang Chen*, Yongjun Chen, Feng Gong*. Understanding the anti-wear mechanism of SiCpWE43 magnesium matrix composite. Vacuum. 2020, 172: 109049(4pp).
- [17] Xinfang Huang, Zhiwen Xie*, Kangsen Li, Qiang Chen, Feng Gong*, Yongjun Chen, Bo Feng, Yan Chen, Yuanyuan Wan. Effect of annealing environment on the microstructure and mechanical property of CrWN glass molding coating. Surface & Coatings Technology. 2020, 383: 125281(10pp.)
- [16] Kangsen Li, Gang Xu, Xinfang Huang, Zhiwen Xie*, Feng Gong*. Temperature effect on the deformation and optical

quality of moulded glass lenses in precision glass moulding. *International Journal of Applied Glass Science*. 2020, 11: 185-194.

[15] Jiang Ma, Can Yang, Xiaodi Liu, Baoshuang Shang, Quanfeng He, Fucheng Li, Tianyu Wang, Dan Wei, Xiong Liang, Xiaoyu Wu, Yunjiang Wang, Feng Gong*, Pengfei Guan*, Weihua Wang*, Yong Yang*. Fast surface dynamics enabled cold joining of metallic glasses. *Science Advances*. 2019, 5: eaax7256.

[14] Jiaqi Ran, Li Xu, Jilai Wang, Teng Xu, Feng Gong*. Influence of dead metal zone on dislocation strengthening effect during micro-progressive forming. *International Journal of Advanced Manufacturing Technology*. 2019, 105: 1129-1141.

[13] Kangsen Li, Gang Xu, Xinfang Huang, Zhiwen Xie, Feng Gong*. Manufacturing of micro-lens array using contactless micro-embossing with an EDM-mold. *Applied Sciences*. 2019, 9: 85(12pp).

[12] Canbin Zhang, Jiang Ma, Xiong Liang, Feng Luo, Rong Cheng, Feng Gong*. Fabrication of metallic bipolar plate for proton exchange membrane fuel cells by using polymer powder medium based flexible forming. *Journal of Materials Processing Technology*. 2018, 262: 32-40.

[11] Canbin Zhang, Feng Gong*. Deep drawing of cylindrical cups using polymer powder medium based flexible forming. *International Journal of Precision Engineering and Manufacturing-Green Technology*. 2018, 5(1): 63-70.

[10] Qiang Chen, Zhiwen Xie*, Tian Chen, Feng Gong*. Tribocorrosion failure mechanism of TiN/SiO_x duplex coating deposited on AISI304 stainless steel. *Materials*. 2016, 9: 963(12pp).

[9] Feng Gong, Shunhua Chen, Jiaqi Ran, Zhi Yang, Jiang Ma*. Tuning the performance of bulk metallic glasses by milling artificial holes. *Materials Science & Engineering A*. 2016, 668: 50-54.

[8] Jiang Ma, Feng Gong*, Zhi Yang, Wenqin Zeng. Microdeep drawing of C1100 microsquare cups using microforming technology. *International Journal of Advanced Manufacturing Technology*. 2016, 82: 1363-1369.

[7] Feng Gong*, Zhi Yang, Qiang Chen, Zhiwen Xie, Dayu Shu, Jiali Yang. Influences of lubrication conditions and blank holder force on micro deep drawing of C1100 micro conical-cylindrical cup. *Precision Engineering*. 2015, 42: 224-230.

[6] Jiang Ma, Xiong Liang, Xiaoyu Wu, Zhiyuan Liu, Feng Gong*. Sub-second thermoplastic forming of bulk metallic glasses

by ultrasonic beating. *Scientific Reports*. 2015, 5: 17844.

[5] Feng Gong*, Bin Guo. Size effects on mechanical properties of copper thin sheet in uniaxial tensile tests. *Materials Science (Medziagotyra)*. 2014, 20(4): 509-512.

[4] Tian Chen, Zhiwen Xie*, Feng Gong*, Zhuangzhu Luo, Zhi Yang. Correlation between microstructure evolution and high temperature properties of TiAlSiN hard coatings with different Si and Al content. *Applied Surface Science*. 2014, 314: 735-745.

[3] Feng Gong*, Bin Guo. Effects of solid lubrication film on SKD11 in micro sheet forming. *Surface & Coatings Technology*. 2013, 232: 814-820.

[2] Feng Gong*, Bin Guo. Effects of influencing factors on friction coefficient in microsheet forming. *Materials Research Innovations*. 2013, 17(S1): s7-s11.

[1] Feng Gong*, Bin Guo, Chunju Wang, Debin Shan. Micro deep drawing of micro cups by using DLC film coated blank holders and dies. *Diamond & Related Materials*. 2011, 20(2): 196-200.

EI收录期刊论文:

[3] 冉家琪, 徐力, 王继来, 龚峰*. 多应变速率下尺寸效应对黄铜微尺度塑性变形本构及损伤演化的影响. *机械工程学报*. 2019, 55(16): 69-76.

[2] 龚峰*, 李康森, 闫超. 玻璃精密模压成形的研究进展. *光学精密工程*. 2018, 26(6): 1380-1391

[1] 龚峰*, 张顺, 吴挺岛. 1060纯铝微杯形件微拉深成形研究. *机械工程学报*. 2014. 50(24): 44-49.

代表专利:

[5] 龚峰, 李康森, 王小权, 李积彬. 一种光学非球面玻璃模压成型设备. 2019.08.09, 中国发明专利, ZL201710124489.7

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[3] 龚峰. 微沟道高分子粉末成形方法. 2019.02.01, 中国发明专利, ZL 201610403215.7

- [2] 龚峰, 王小权, 李积彬. 一种光学精密非球面玻璃模压成型设备. 2018. 11. 23, 中国发明专利, ZL 201610466610. X
- [1] 龚峰, 马将. 一种大拉深比的微拉深件成形方法, 2016. 06. 08, 中国发明专利, ZL201410773197. 2

获得荣誉:

三维叠层微电极关键成形工艺技术及其产业化应用. 广东省科技进步奖二等奖(4/10), 广东省人民政府, 2019. 03.
腾讯良师奖. 深圳大学/腾讯基金会, 2016. 12.

主要学术兼职:

中国兵工学会精密成形工程专业委员会委员;
广东省机械工程学会模具与锻压工程分会副秘书长;
中国光学工程学会先进光学制造青年专家委员会常务委员;
中国机械工程学会塑性工程分会绿色成形制造技术委员会委员;
Journal of Materials Processing Technology, Precision Engineering等10余种SCI期刊审稿人。

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