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一、主要招生专业及研究方向:

招生专业: 材料类、机械类(材料成型)

研究方向: 1. 先进高强钢的设计、制备及应用; 2. 材料的强韧化与疲劳破坏; 3. 金属材料的热加工及成型技术。

二、主要研究成果:

1. Qian Zhou, Lihe Qian, Feng Qin, Jiangying Meng, Xiliang Zhang, Penghui Ma, Hongji Liu, Xinyue Wang, Leijie Zhao, Reverse loading-rate sensitivity of tensile fracture energy of smooth and pre-cracked specimens of carbide-free bainitic steel, *Scripta Materialia*, 2022, 218, 114844. (SCI一区 Top)
2. Qian Zhou, Lihe Qian, Jiangying Meng, Feng Qin, Leijie Zhao, Monotonic tensile and cyclic deformation behaviors of carbide-free bainitic steel subjected to austempering and tempering after air cooling, *Steel Research International*, 2022, 93(7), 2200039. (SCI二区)
3. Qian Zhou, Lihe Qian, Jiangying Meng, Leijie Zhao, The fatigue properties, microstructural evolution and crack behaviors of low-carbon carbide-free bainitic steel during low-cycle fatigue, *Materials Science and Engineering A*, 2021, 820, 141571. (SCI一区 Top)
4. Qian Zhou, Pengcheng Guo, Feng Qin, Stress response behavior, microstructure evolution and constitutive modeling of 22MnB5 boron steel under isothermal tensile load, *Metals*, 2022, 12(6), 930. (SCI三区)
5. Qian Zhou, Lihe Qian, Jiangying Meng, Leijie Zhao, Fucheng Zhang. Low-cycle fatigue behavior and microstructural evolution in a low-carbon carbide-free bainitic steel. *Materials and Design*, 2015, 85: 487-496. (SCI二区 Top)
6. Qian Zhou, Lihe Qian, Leijie Zhao, Qingchun Zhu, Jiangying Meng, Fucheng Zhang. Loading-rate dependence of fracture absorption energy of low-carbon carbide-free bainitic steel. *Journal of Alloys and Compounds*, 2015, 650: 944-948. (SCI二区 Top)
7. Qian Zhou, Lihe Qian, Jun Tan, Jiangying Meng, Fucheng Zhang. Inconsistent effects of mechanical stability of retained austenite on ductility and toughness of transformation-induced plasticity steels. *Materials Science and Engineering A*, 2013, 578: 370-376. (SCI二区 Top)

三、科研项目:

1. 国家自然科学基金青年项目, 27.2万, 2019.01-2021.12, 负责人;
2. 河北省高等学校青年拔尖人才计划项目, 9万, 2020.01-2022.12, 负责人;
3. 河北省自然科学基金青年项目, 6万, 2020.01-2022.12, 负责人;
4. 亚稳材料制备技术与科学国家重点实验室开放课题, 3万, 2018.01-2019.12, 负责人;
5. 邯郸市科学技术研究与发展计划项目, 0.3万, 2021.09-2023.08, 负责人;
6. 企业横向课题, 2023-2024, 12万, 负责人;
7. 河北工程大学教育教学研究项目, 0.4万, 2024.01-2024.12, 负责人;
8. 河北工程大学教育教学研究项目, 1万, 2018.01-2019.12, 负责人。

四、联系方式:

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