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主要研究方 向（内容）	金属材料热处理、增材制造高熵合金			
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代表性科研 成果及奖励 （包括项目、 论文、专著、 专利等）	(1) <b>Guanghua Yan</b> ; Shaolei Lu; Minglei Zhang; Jiachang Wang; Xudong Yang; Ziyang Zhang; Jianfeng Gu; Chuanwei Li. Wear and corrosion behavior of P20 steel surface modified by gas nitriding with laser surface engineering, Applied Surface Science, 2020, 530. (2) <b>Guanghua Yan</b> ; Yanle Sun; Jianfeng Gu; Chuanwei Li. Effect of Initial Microstructure on Mechanical Properties of Pressure Vessel Steel after Intercritical Heat Treatment, Metal Science and Heat Treatment, 2021, 63(1-2): 70-79. (3) <b>Guanghua Yan</b> ; Mengyao Zheng; Zhenhua Ye; Jianfeng Gu; Chuanwei Li; Chengge Wu; Baoping Wang. In-situ Ti(C, N) reinforced AlCoCrFeNiSi-based high entropy alloy coating with functional gradient double-layer structure fabricated by laser cladding, Journal of Alloys and Compounds, 2021, 886: 161252. (4) <b>Guanghua Yan</b> ; Mengyao Zheng; Jianfeng Gu; Chuanwei Li. High-temperature oxidation behavior of laser additively manufactured AlCrCoNiSi-based high-entropy alloys at 1100℃, Journal of Alloys and Compounds, 2024, 976: 173120. (5) <b>Guanghua Yan</b> ; Xudong Yang; Jianfeng Gu; Chuanwei Li. Effect of Laser Hardening and Gas Nitriding on Wear Resistance of Steel P20: A Comparative Study, Metal Science and Heat Treatment, 2023, 65: 247-253. (6) Junjian Liu; <b>Guanghua Yan</b> ; Mengyao Zheng; Jianfeng Gu; Chuanwei Li; Lei Wang; Wenwu Guo. Evolution of microstructure and wear mechanism in laser clad			

	<p>Al0.5CoCrFeNiSi0.5Ti<sub>x</sub> coatings in response to the Ti addition, Wear, 2023, 526-527: 204887.</p> <p>(7) GUANGHUA YAN; LIZHAN HAN; CHUANWEI LI; XIAOMENG LUO; JIANFENG GU.</p> <p>Effect of Macrosegregation on the Microstructure and Mechanical Properties of a Pressure-Vessel Steel, METALLURGICAL AND MATERIALS TRANSACTIONS A, 2017, 48(7): 3470-3481.</p> <p>(8) Guanghai Yan; Lizhan Han; Chuanwei Li; Xiaomeng Luo; Jianfeng Gu. Characteristic of retained austenite decomposition during tempering and its effect on impact toughness in SA508 Gr.3 steel, Journal of Nuclear Materials, 2017, 483(1): 167-175.</p>
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