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个人简介

2008 年 3 月于华东理工大学机械与动力工程学院获化工过程机械专业工学博士学位（导师：涂善东院士），2008 年 7 月至 2009 年 11 月在韩国中央大学从事博士后研究工作（合作教授：Kee Bong Yoon）。2011 年 5 月入职华东理工大学机械与动力工程学院，先后担任讲师、副教授、系主任、副院长等职。主要从事材料氢损伤、氢脆无损检测及冷轧薄板断裂机理的研究。先后主持和参与国家自然科学基金、973 专项基金、863 专项基金等多项科研课题，迄今为止在国内学术外期刊及会议上发表论文 100 余篇，其中 SCI 收录 18 篇，EI 收录 38 篇，ISTP 收录 5 篇，授权专利 8 项

研究方向

- 1、材料氢损伤检
- 2、冷轧薄板断裂机理

研究成果及主要发表文章

[1].Chen JJ*, Wu CJ, Ying JC. Application of Extended Finite Element Method for Studying Crack Propagation of Welded Strip Steel in the Cold Rolling Process. MATERIALS, 2023,16(17) 5870(SCI/EI)

[2].Said Mohamed Yasin, Chen Jianjun*. Study on Defect Evolution of Steel Strip under High-speed Cold Rolling. Journal of Physics: Conference Series. 2023, 2430(1): 012023 (EI)

[3].Changdong Yin, Dongdong Ye, Zhou Xu, Jianjun Chen et al. Experimental and Modeling Analysis of Hydrogen Motion Behavior in Welding Zone of 2.25Cr – 1Mo – 0.25V Steel Welded Joint with Hydrogen Corrosion. Metals and Materials International. 2023, 29: 2242 – 2256(SCI/EI)

[4].Dongdong Ye, Zhou Xu, Changdong Yin, Yiwen Wu, Jianjun Chen, et al. Study on the Influence of Grain Size and Microstructure on the Mechanical Properties of Fe-6.5 wt%Si High Silicon Steel Prepared by CVD Method. Crystals 2022, 12(10): 1470(SCI/EI)

[5].Ye DD, Yin CD, Xu Z, Chen JJ, Wu YW, Pan JB, Zeng GL, Xu HC, Li R. Feasibility of using ultrasonic-based prediction for hydrogen embrittlement susceptibility of high-strength heat-resistant steel 2.25Cr-1Mo-0.25V. Measurement. 2022, 196(6): 111162 (SCI/EI)

[6].Li Xiang, Chen Jianjun*, Zhou Dingshan, Gu Qingdong. A modified biogeography-based optimization algorithm based on cloud theory for optimizing a fuzzy PID controller. Optimal Control Applications and Methods. 2022, 43(3): 722-739 (SCI/EI)

[7].Yi-wen WU, Jian-jun CHEN*, Chang-dong YIN, Shi-bo WANG, Qing-dong GU. Simulation and experiment evaluation of hydrogen damage in 2.25cr1mo0.25v steel by ultrasonic detection. Proceedings of the 2020 15th Symposium on Piezoelectricity, Acoustic Waves, and Device Applications, 2021, Apr. 16 - Apr.19: 673-676 (EI)

[8].Bian Jiapan, Chen Jianjun*. Analysis of Damage Field of Needle Coke Impacted by High Pressure Water Jet Based on SPH Algorithm. 2021 4th International Conference on Electron Device and Mechanical Engineering, ICEDME 2021, 221-225 (EI)

[9].Li C, Sun Q, Tang C L, Lu Y B, Song H J, Chen J J, Qin Z H, A two-steps method to prepare silver nanoparticle ink for improving electrical and mechanical properties of printed silver wire. Materials Express. 2021,11(4): 516-523 (SCI/EI)

[10].Jianjun Chen*, Weijie Yuan, Wenhao Wu, Cheng Yang. Numerical simulation of wrinkling behavior for the tin plate. Procedia Manufacturing. 2020,50(10): 429-432

[11].Changdong Yin, Jianjun Chen*, Dongdong Ye, Zhou Xu, Jiahao Ge and Haiting Zhou. Hydrogen Concentration Distribution in 2.25Cr-1Mo-0.25V Steel under the Electrochemical Hydrogen Charging and Its Influence on the Mechanical Properties. Materials. 2020,13(10): 2263-2277(SCI/EI)

[12].Zhou Xu, Dongdong Ye, Jianjun Chen*, and Haiting Zhou. Novel Terahertz Nondestructive Method for Measuring the Thickness of Thin Oxide Scale Using Different Hybrid Machine Learning Models. Coatings. 2020,10(9): 805-819(SCI/EI)

[13].Sun Quan, Lu Yebo, Chen Jianjun. Identification of material parameters of a shear modified GTN damage model by small punch test. International Journal of Fracture. 2020, 222(1-2): 25-35

[14].Zhou Haiting, Ye Dongdong, Chen Jianjun, Wang Qiang, Fan Xinwei. Discussion on the characterisation of hydrogen embrittlement based on eddy current signals Insight: Non-Destructive Testing and Condition Monitoring, 2020, 62(1): 11-14(SCI/EI)