

Article

Prediction of Mechanical Properties and Optimization of Friction Stir Welded 2195 Aluminum Alloy Based on BP Neural Network

Fanqi Yu ^{1,2}, Yunqiang Zhao ^{1,*}, Zhicheng Lin ^{1,3}, Yugang Miao ², Fei Zhao ^{3,4} and Yingchun Xie ^{3,4}

¹ China-Ukraine Institute of Welding, Guangdong Academy of Sciences, Guangdong Provincial Key Laboratory of Advanced Welding Technology, Guangzhou 510650, China

² National Key Laboratory of Science and Technology on Underwater Vehicle, Harbin Engineering University, Harbin 150001, China

³ Ri Song Intelligent Technology Holding, Guangdong Provincial Key Laboratory of Robotics and Digital Intelligent Manufacturing Technology, Guangzhou 510535, China

⁴ Product Development Department, Fiscaxia Industry Software Co., Ltd., Guangzhou 510535, China

* Correspondence: yunqiangzhao@163.com

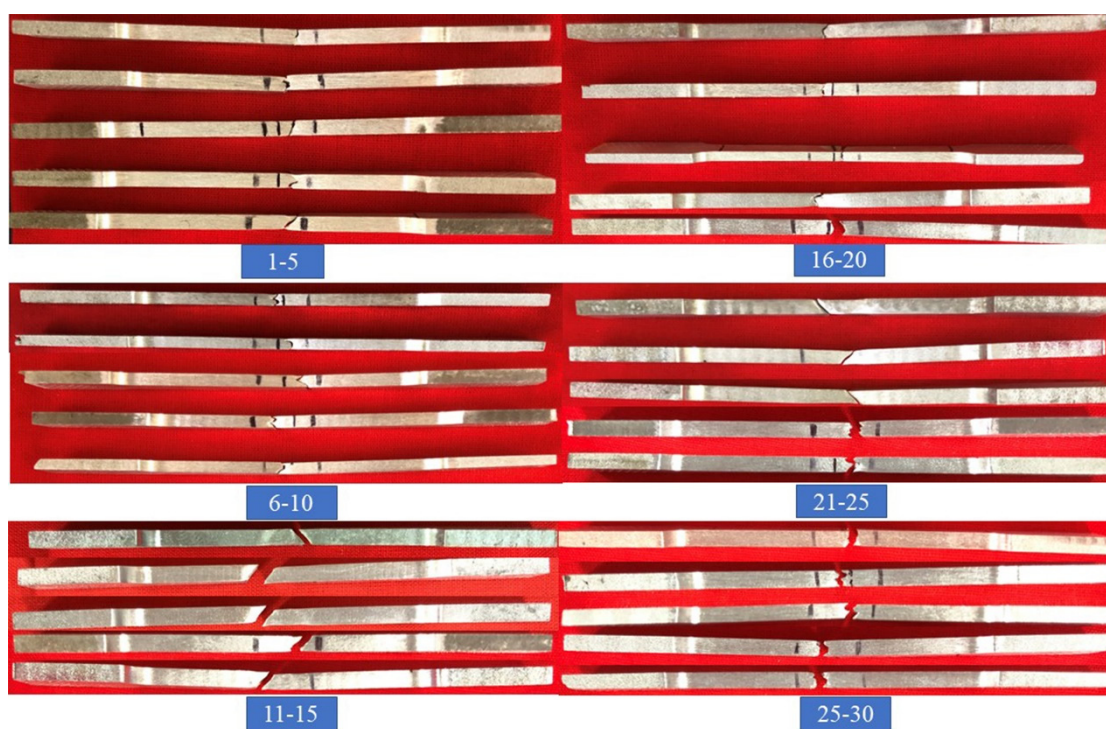


Figure S1. The image of the fractured specimen.

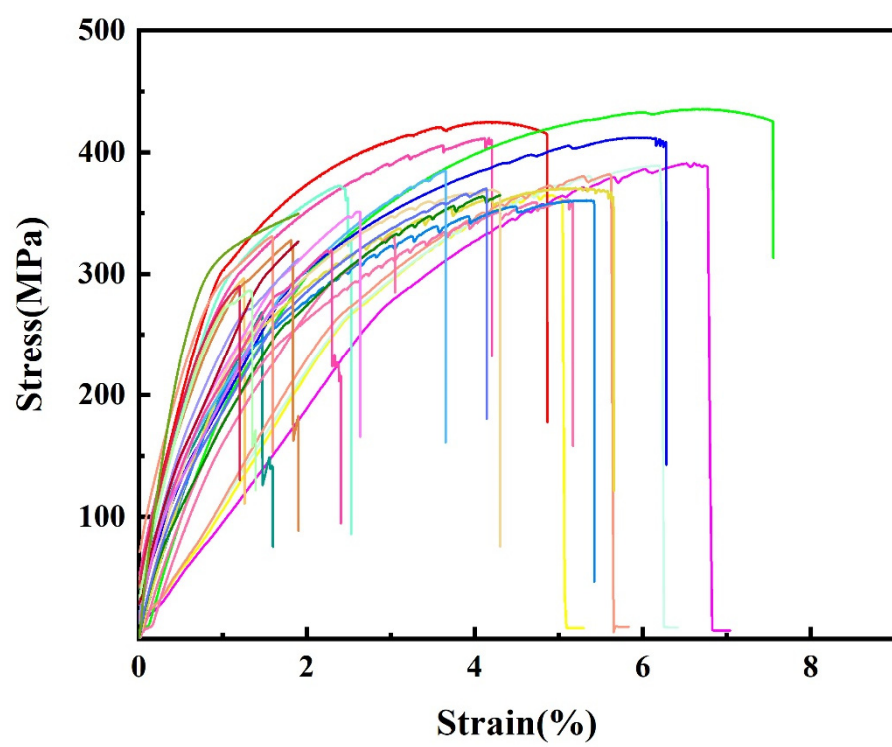


Figure S2. Stress-strain curve.