



Registration Form for WFC Youth Working Committee

Personal Info.

Name: Shulin Lü

Title: Associate Professor

Affiliation: Huazhong University of Science and Technology



Research Interest

Al/Mg alloys, semisolid forming, die casting, squeeze casting

Main Achievements (<200 words)

Many innovative research work has been carried out in the application of high-energy ultrasonic vibration technology to the preparation and forming of casting alloys. The ultrasonic vibration technology for making semi-solid slurry of aluminum alloys has been developed, and applied to the preparation and forming of new Al-Si alloy materials. A theoretical explanation for the morphology evolution of non-dendritic grains in semi-solid slurry under ultrasonic vibration was proposed. Ultrasonic vibration technology successfully used for preparing rare earth magnesium alloys with high strength and toughness, the mechanical properties of LPSO structure reinforced magnesium alloys were significantly improved.