

Dr. Chunlei Qiu PhD

Research Fellow

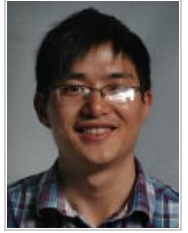
School of Metallurgy and Materials

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About

Dr. Chunlei Qiu is a Research Fellow in Advanced Materials Processing. He received his PhD in metallurgy and materials science from the University of Birmingham in 2010. Following his PhD, he worked as a research fellow in the Advanced Materials Processing Group (AMPLab) at the Department of Metallurgy and Materials at the University of Birmingham.

His research over the past six years has been focused on net-shape manufacturing of Ni-based superalloys and Ti-based alloys for aerospace structures and components using Net-shape Hot Isostatic Pressing, Selective Laser Melting and Direct Laser Fabrication, studying the microstructural evolution, process-microstructure-property relationship, materials deformation and fracture mechanisms and structural integrity associated with these processes. His current research activities mainly focus on laser fabrication of Ti-based alloys.

Qualifications

PhD in Metallurgy and Materials Science, The University of Birmingham, UK, 2010

MSc in Materials Science, Huazhong University of Science and Technology, China, 2006

BSc (Eng.) in Metallurgical Engineering, Wuhan University of Science and Technology, China, 2003

Research

Research Interests

Net-shape Hot Isostatic Pressing of Nickel-based Superalloys and Ti-based alloys

Net-shape Laser Fabrication (using Direct Laser Fabrication and Selective Laser Melting)

Materials Characterisation using OM, XRD, SEM, EBSD and TEM

Microstructural Evolution and Phase Transformation of Metallic materials

Study on Deformation and Fracture Mechanisms for Metallic Materials using SEM and TEM

Development of Novel Alloys and Composites