

Supplementary materials

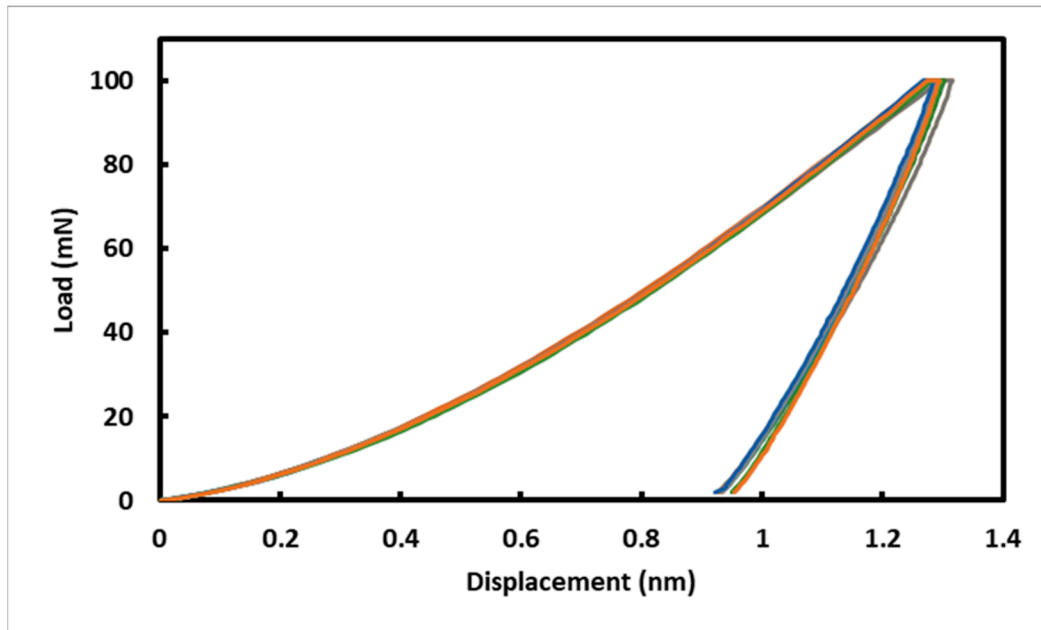


Fig. S1: Representative load-displacement graphs on the frontal planes of L-PBF processed Inconel 718 alloy with respect to the build direction (BD).

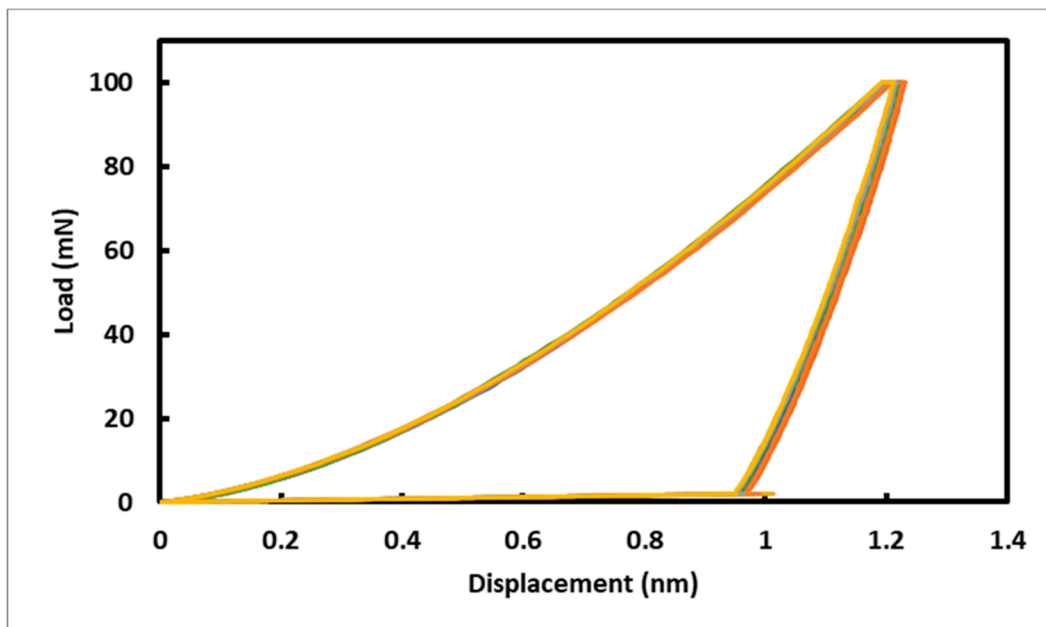


Fig. S2: Representative load-displacement graphs on the lateral planes of L-PBF processed Inconel 718 alloy with respect to the build direction (BD).

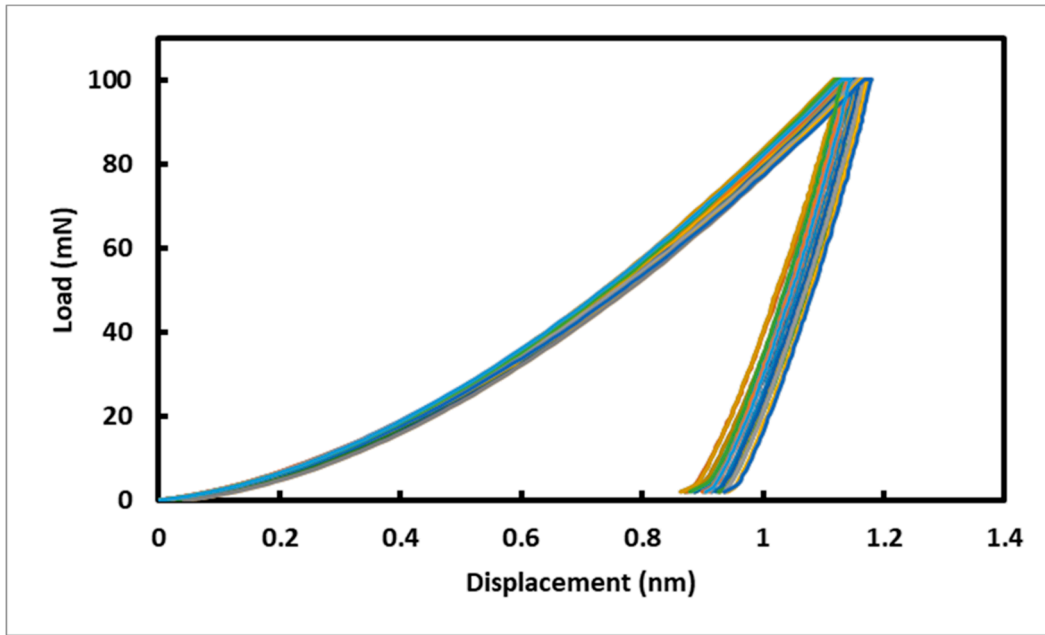


Fig. S3: Representative load-displacement graphs on the horizontal planes of the L-PBF processed Inconel 718 alloy with respect to the build direction (BD).

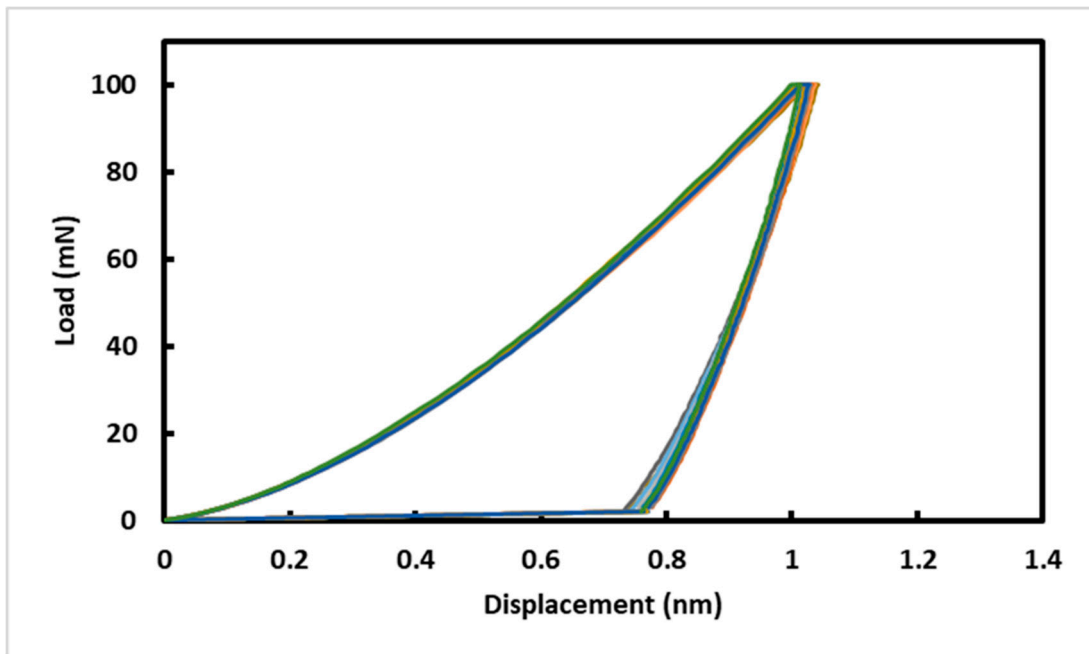


Fig. S4: Representative load-displacement graphs on the cast Al-12Si alloy.