

Supplementary Materials: Thermal Stability of Nanocrystalline Gradient Inconel 718 Alloy

Jie Ding ^{1,*}, Yifan Zhang ¹, Tongjun Niu ¹, Zhongxia Shang ¹, Sichuang Xue ¹, Bo Yang ¹, Jin Li ¹, Haiyan Wang ^{1,2} and Xinghang Zhang ^{1,*}

¹ School of Materials Engineering, Purdue University, West Lafayette, IN 47907, USA; zhan2592@purdue.edu (Y.Z.); niu35@purdue.edu (T.N.); shang19@purdue.edu (Z.S.); xue97@purdue.edu (S.X.); yang837@purdue.edu (B.Y.); vincentlijin@gmail.com (J.L.); hwang00@purdue.edu (H.W.)

² School of Electrical and Computer Engineering, Purdue University, West Lafayette, IN 47907, USA

* Correspondence: ding173@purdue.edu (J.D.); xzhang98@purdue.edu (X.Z.)

Supplementary Materials

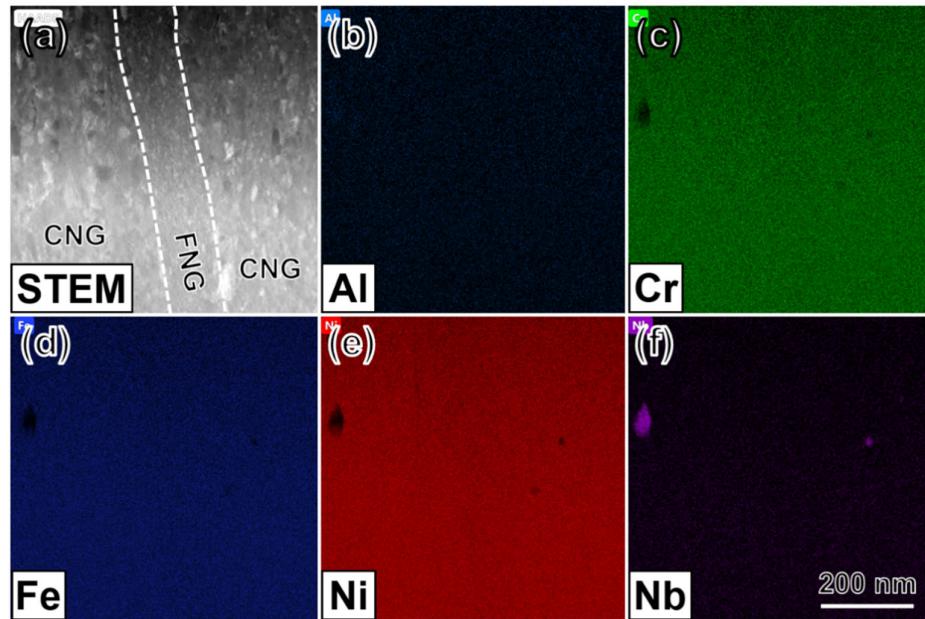


Figure S1. (a) STEM image and the corresponding (b-f) EDS maps of the NG layer of the as-processed IN718 alloy.

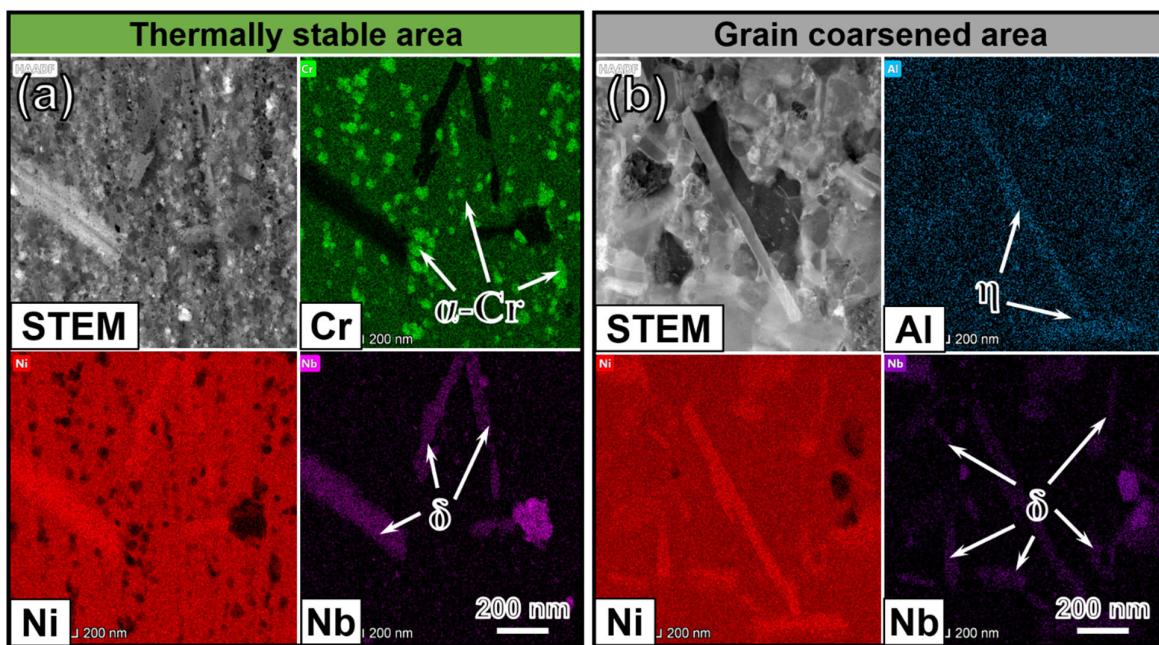


Figure S2. STEM image and EDS maps of (a) thermally stable area and (b) grain coarsened areas of NG IN718 specimen after annealing at 700 oC for 24 h.