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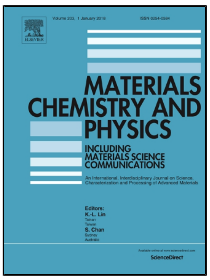

Deformation twins and interface characteristics of nano-Al_2O_3 reinforced $Al_{0.4}FeCrCo_{1.5}NiTi_{0.3}$ high entropy alloy composites

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PII:	S0254-0584(17)30916-1
DOI:	10.1016/j.matchemphys.2017.11.037
Reference:	MAC 20157
To appear in:	*Materials Chemistry and Physics*
Received Date:	01 May 2017
Revised Date:	12 September 2017
Accepted Date:	16 November 2017

Please cite this article as: Shaofeng Yang, Yan Zhang, Xing Yan, Hang Zhou, Jinhong Pi, Dezhi Zhu, Deformation twins and interface characteristics of nano-Al_2O_3 reinforced $Al_{0.4}FeCrCo_{1.5}NiTi_{0.3}$ high entropy alloy composites, *Materials Chemistry and Physics* (2017), doi: 10.1016/j.matchemphys.2017.11.037

Highlights

1. $Al_{0.4}FeCrCo_{1.5}NiTi_{0.3}$ HEA reinforced by nano-Al_2O_3 was produced by MA and SPS.
2. The volume fraction of nanoscale twins increases after introducing nano-Al_2O_3 into HEA.
3. A distinct characteristic of serrated yielding was presented on the stress–strain curve.