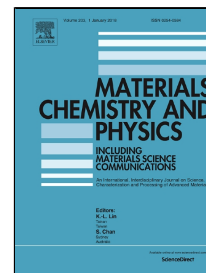


# Accepted Manuscript

Deformation twins and interface characteristics of nano- $\text{Al}_2\text{O}_3$  reinforced  $\text{Al}_{0.4}\text{FeCrCo}_{1.5}\text{NiTi}_{0.3}$  high entropy alloy composites



Shaofeng Yang, Yan Zhang, Xing Yan, Hang Zhou, Jinhong Pi, Dezhi Zhu

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## Highlights

1.  $\text{Al}_{0.4}\text{FeCrCo}_{1.5}\text{NiTi}_{0.3}$  HEA reinforced by nano- $\text{Al}_2\text{O}_3$  was produced by MA and SPS.
2. The volume fraction of nanoscale twins increases after introducing nano- $\text{Al}_2\text{O}_3$  into HEA.
3. A distinct characteristic of serrated yielding was presented on the stress–strain curve.

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