

## Supplementary Materials

### **Spatial metastability control via compositional heterostructures for enhanced TRIP behavior in ferrous medium-entropy alloys**

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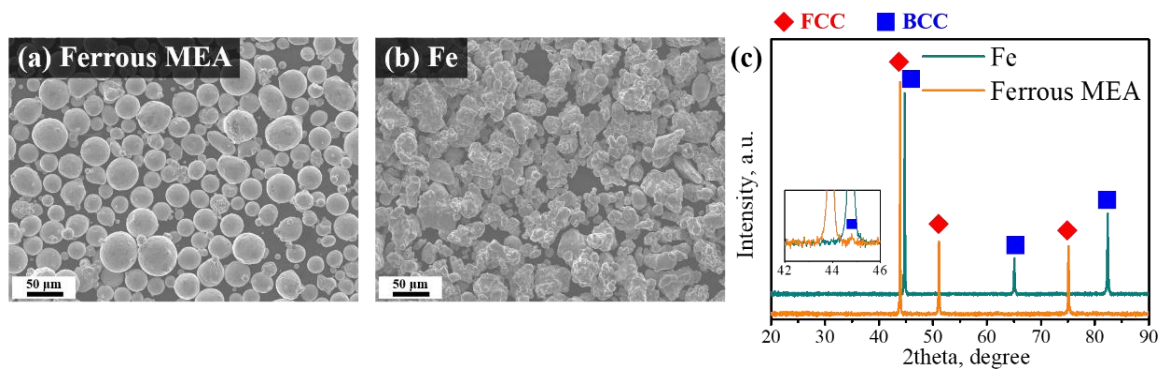
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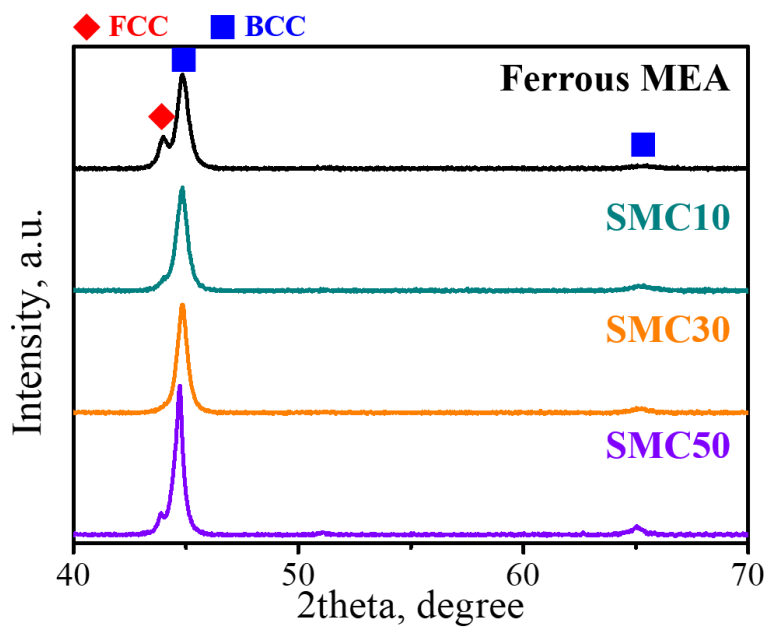
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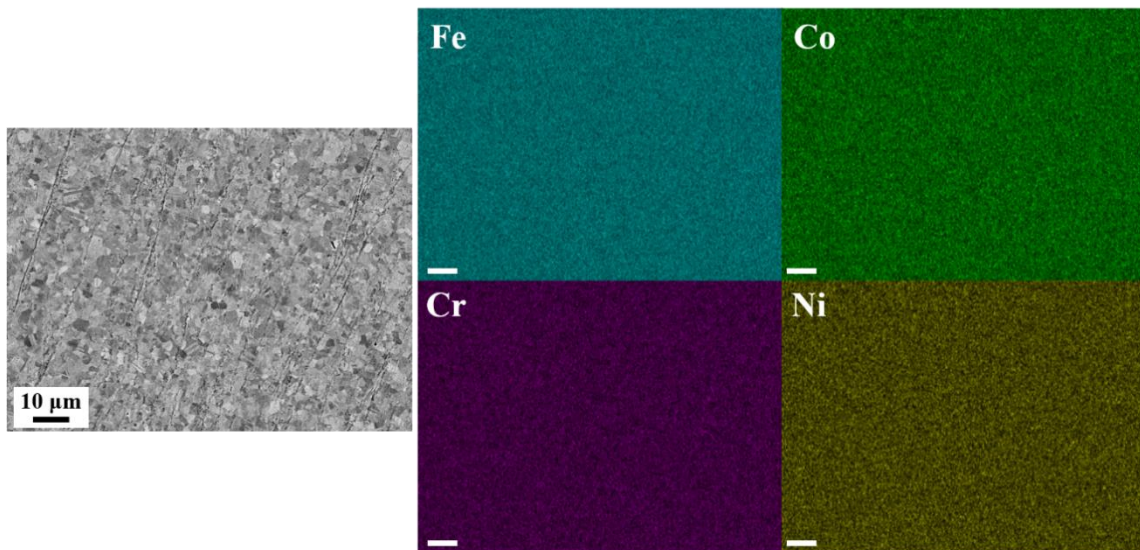
## Supplementary figures



**Figure S1.** Powder characterization; SEM images of (a) Ferrous MEA and (b) pure Fe. (c) X-ray diffraction patterns of powders.



**Figure S2.** X-ray patterns of as-HPT ferrous MEA, SMC10, SMC30, and SMC50.



**Figure S3.** Annealed microstructure of ferrous MEA with the corresponding EDS maps.