

*Supplementary material for*

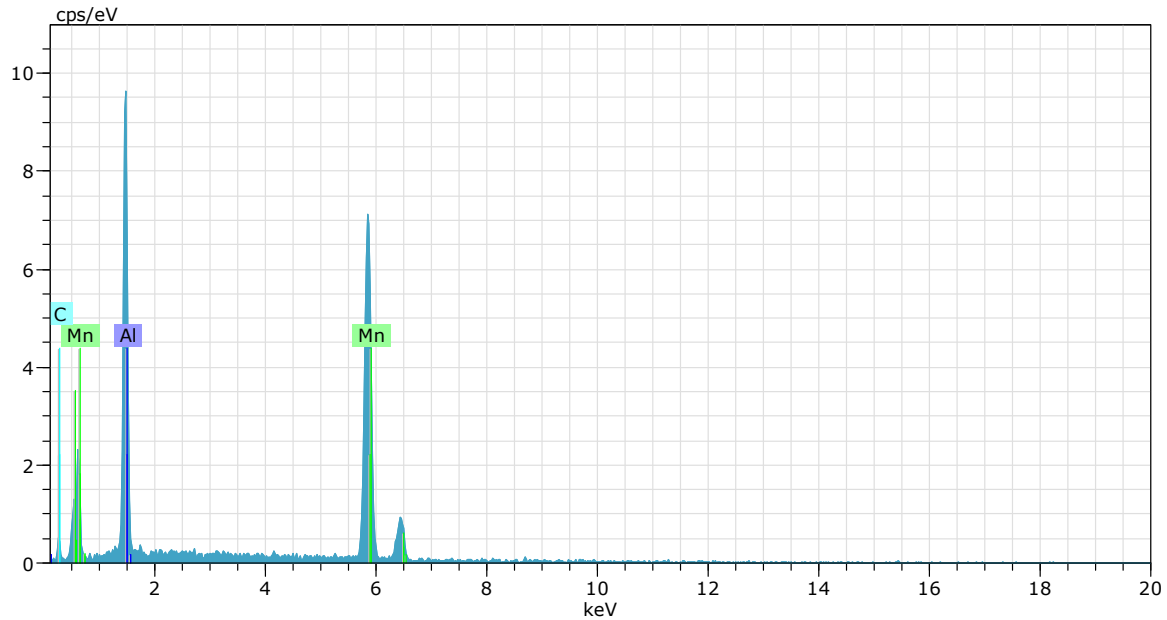
# Stress-Induced Grain Refinement in Hard Magnetic $\text{Mn}_{52}\text{Al}_{45.7}\text{C}_{2.3}$ Fabricated Using the Ball-Milling Method

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El	AN	Series	unn. C	norm. C	Atom. C	Error (1 Sigma)
[wt.%]	[wt.%]		[at.%]		[wt.%]	
Mn	25	K-series	48.93	62.43	37.01	1.56
Al	13	K-series	20.25	25.84	31.18	1.11
C	6	K-series	9.20	11.73	31.81	4.15
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Total:			78.38	100.00	100.00	

Figure S1. EDS analysis and weight percentage of Mn and Al for the region 1 of Figure 4.

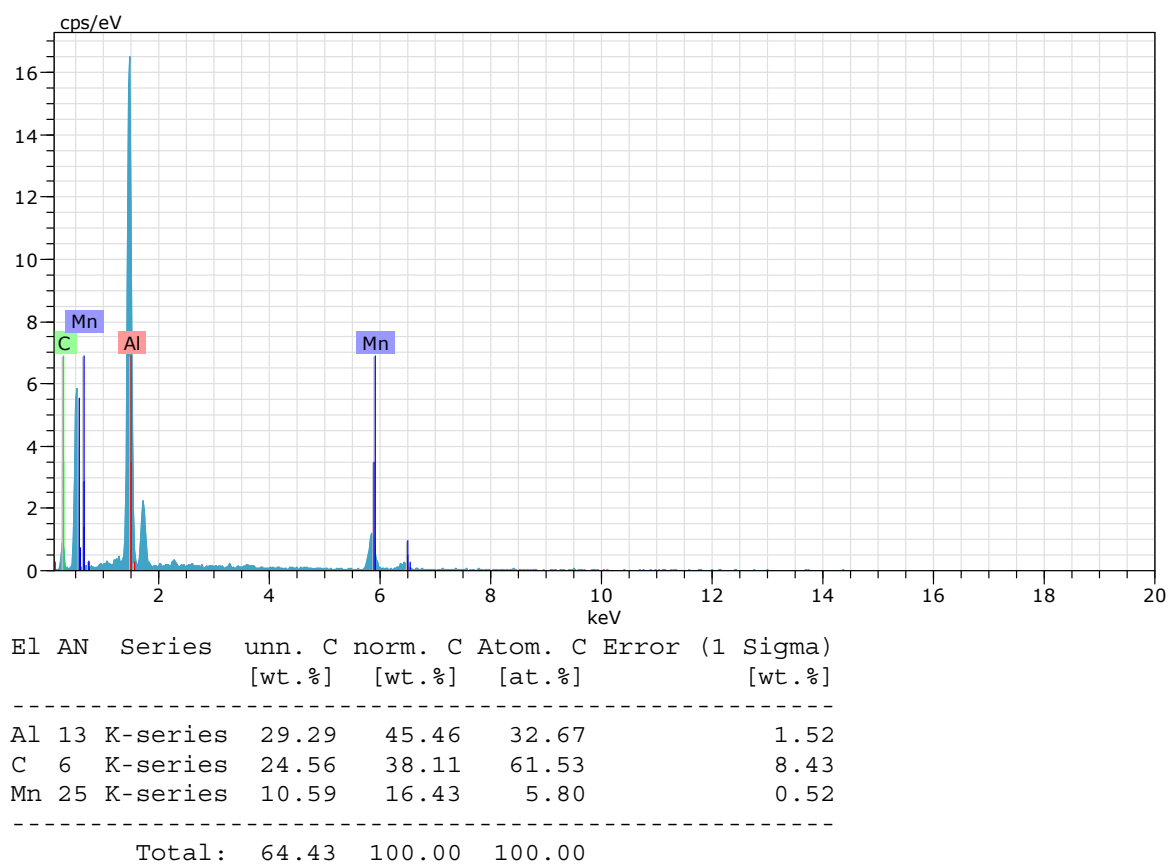


Figure S2. EDS analysis and weight percentage of Mn and Al for the region 2 of Figure 4.