

Supporting information

Intrinsic structural distortion and exchange interaction in

SmFe_xCr_{1-x}O₃ compounds

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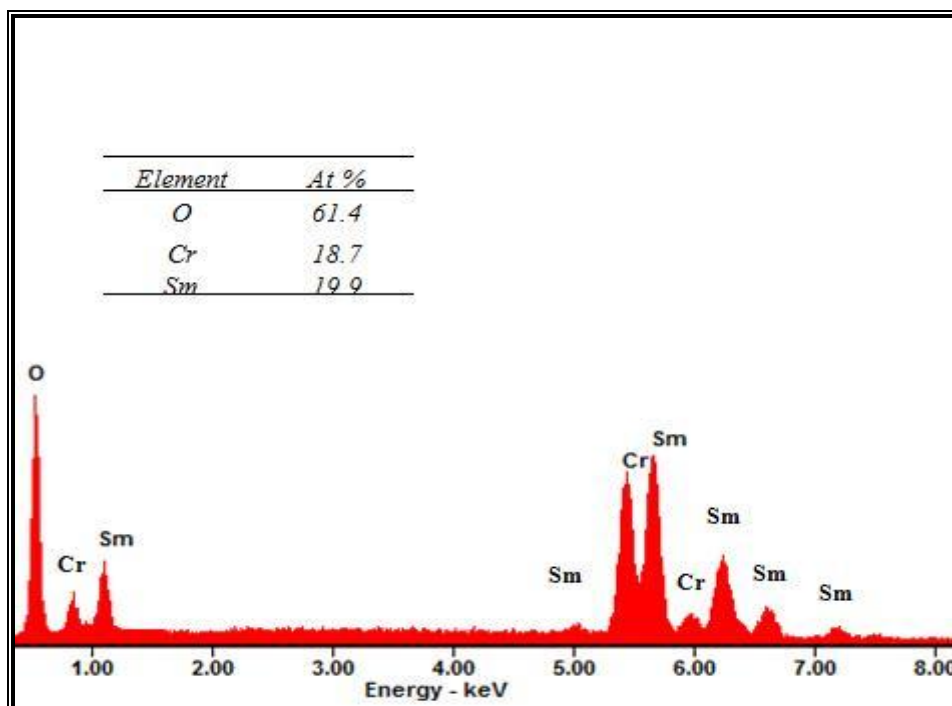


Figure S1. The original EDX spectrum of the SmCrO_3 samples.

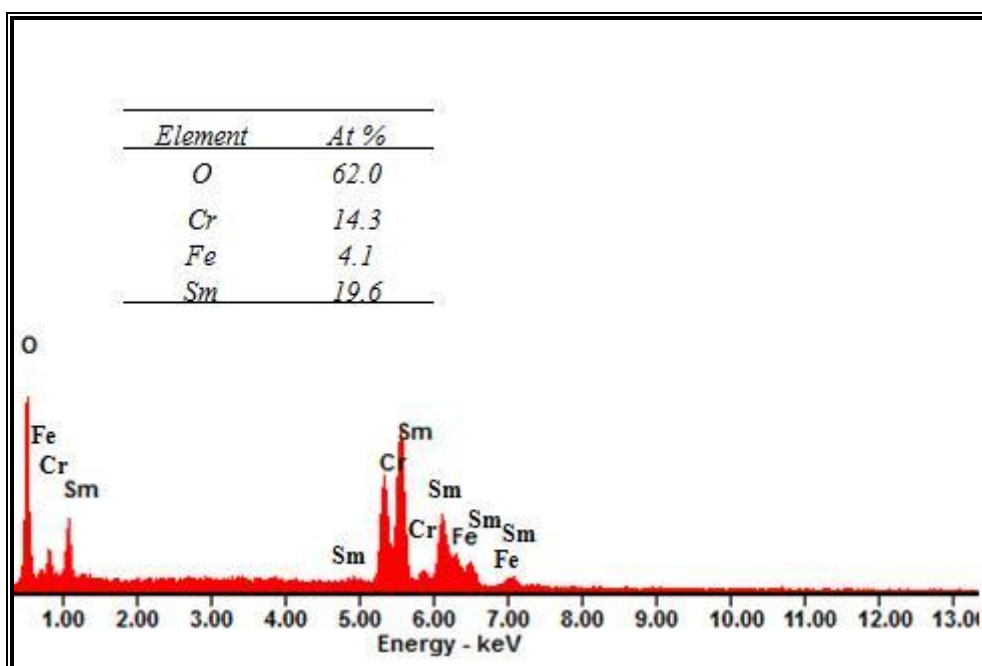


Figure S2. The original EDX spectrum of the $\text{SmFe}_{0.2}\text{Cr}_{0.8}\text{O}_3$ samples.

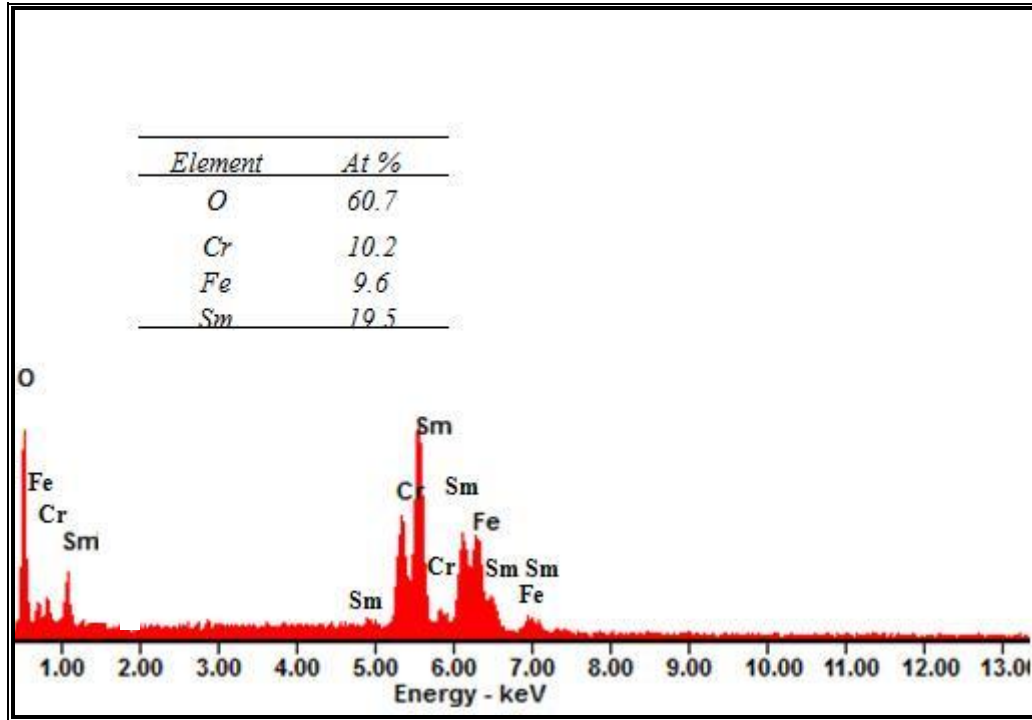


Figure S3. The original EDX spectrum of the $\text{SmFe}_{0.5}\text{Cr}_{0.5}\text{O}_3$ samples.

Table S1 Comparison of magnetic parameters for SmCrO_3 samples with other works.

sample	Neel temperature (K)	$M_{eff} (\mu_B)$	Weiss temperature (K)	Ref.
SmCrO_3	192	7.711	-613.4	[3]
SmCrO_3	193	7.1	-1080	[38]
SmCrO_3	197	-	-	[39]

SmCrO ₃	192	5.46	-670	[20]
SmCrO ₃	193	7.95	-1102	This work