

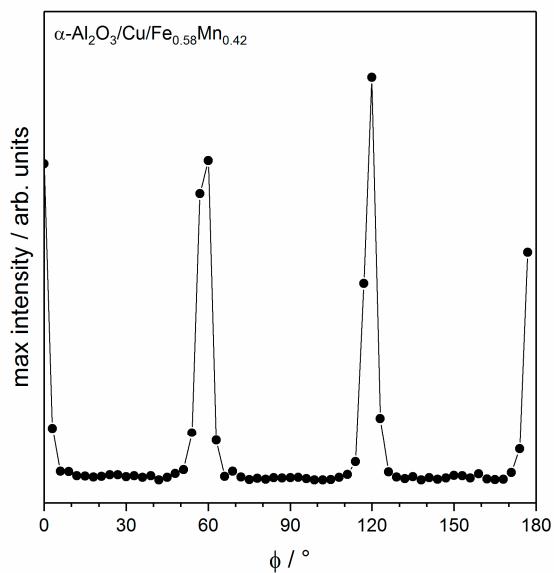
Supplementary Material:


Figure S1. ϕ -scans of fcc (111) for $\alpha\text{-Al}_2\text{O}_3/\text{Cu}/\text{Fe}_{0.58}\text{Mn}_{0.42}$ ($2\theta = 43.39^\circ$, $\omega = 21.70^\circ$, $\chi = 20^\circ$, frame width 3° , maximum intensities plotted in dependence of ϕ).

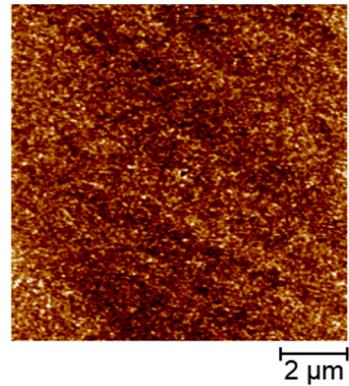


Figure S2. Representative surface area scans for the roughness determination of the FeMn thin film.