



Supplementary Materials Atomic Layer Deposition of GdCoO3 and Gd0.9Ca0.1CoO3

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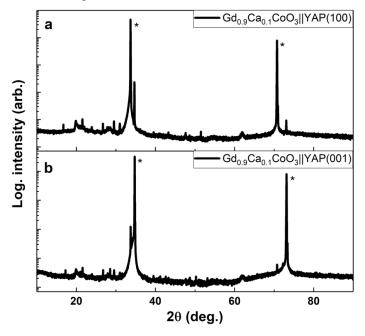
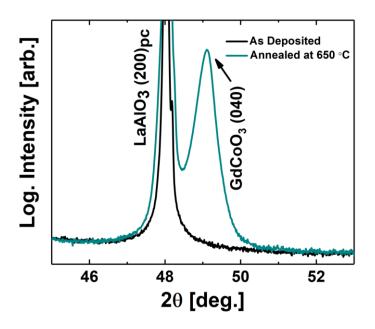
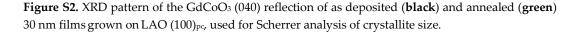


Figure S1. XRD patterns of 30 nm Gd_{0.9}Ca_{0.1}CoO₃ films grown on (**a**) YAP(100) and (**b**) YAP(001), postannealed for 30 minutes at 650 °C. Identified Bragg-reflections originating from the substrate are marked with a star.





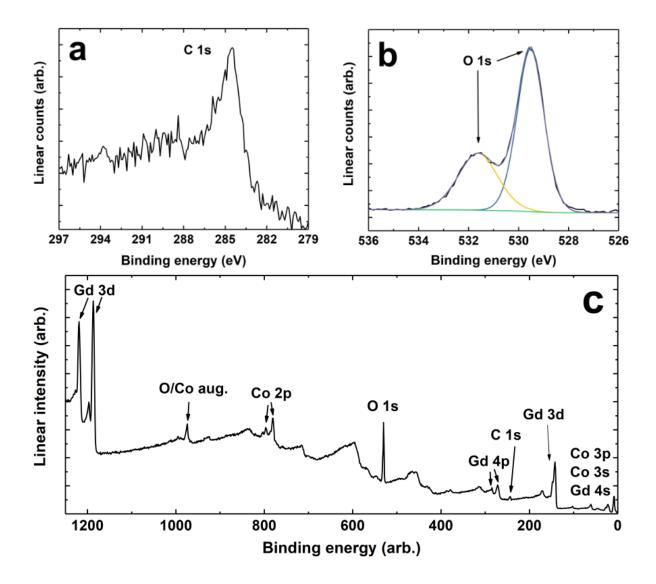


Figure S3. (a) XPS of C 1s, showing very weak signal pointing towards a very low carbon content. The carbon peak seems to stem from one species at 284.8 eV, attributed to adventitious carbon. (b) XPS of O 1s, showing a split peak which is attributed to the two distinct oxygen species in the GdCoO₃ structure. It is possible that some O is bonded to C on the surface as carbonate. (c) Survey spectra showing identification of Gd, Co, O and carbon species.



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