

EDX. B.R., L.T.C. and A.U.B.W. performed and analyzed bulk magnetometry measurements. J.I.F. and J.v.d.B. performed and analyzed density-functional calculations aimed to understand the effects of intermixing. A.T., V.B.Z., T.R.F.P., P.G., M.V. and E.W. performed the XAS measurements. A.T. and V.B.Z. analyzed the XAS data with input and support from T.R.F.P., P.K., S.H., H.B., R.J.G., M.W.H., and V.H. V.B.Z., A.I. and V.H. conceived and supervised the project with input and support from F.R., J.v.d.B., B.B. and A.U.B.W. All authors contributed to the discussion and writing of the manuscript.

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