Additions and Corrections

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D. Dai, M.-H. Whangbo, J. Köhler, C. Hoch, and A. Villesuzanne: Electronic Structure Analysis of the Difference between Cs_2AgF_4 and Rb_2MnF_4 in Their Magnetic Properties and Single-Crystal Structure Determination of Rb_2MnF_4.

Please note the following correction to this article (*Chem. Mater*. **2006**, *18*, 3281).

This paper (*Chem. Mater*. **2006**, *18*, 3281) examined why the two magnetic insulators Cs_2AgF_4 and Rb_2MnF_4 differ in their magnetic properties, namely, why the intralayer spin exchange is ferromagnetic in Cs_2AgF_4 but antiferromagnetic in Rb_2MnF_4. In this study, the ferromagnetism in Cs_2AgF_4 was found to arise from the spin polarization of the $d_{x^2-y^2}$ bands, which is induced by the $d_{z^2}-p-d_{x^2-y^2}$ orbital interactions of the Ag−F−Ag bridges in the AgF_2 layers of Cs_2AgF_4. The presence of such interactions implies that substantial covalent bonding exists in the Ag−F bonds. In this context, the work missed citing the papers by Grochala and Hoffmann[1] and by Grochala et al.,[2] which discussed the existence of covalent bonding in the Ag−F bonds of numerous silver fluoride compounds, including Cs_2AgF_4. They described the electronic structure of Cs_2AgF_4 on the basis of non-spin-polarized DFT calculations, hence predicting that Cs_2AgF_4 is a metal. We thank Professor R. Hoffmann for informing us of the relevance of these two papers to our work.

(1) Grochala, W.; Hoffmann, R. *Angew. Chem., Int. Ed.* **2001**, *40*, 2742.
(2) Grochala, W.; Egdell, R. G.; Edwards, P. P.; Mazej, Z.; Žemva, B. *ChemPhysChem.* **2003**, *4*, 997.

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