

Publisher Correction: The evolution of multiferroics

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In the key for Figure 1, the legend for the upper right element in the key should read R^{3+} , where $R = \text{Sc}, \text{Y}, \text{In}$ or Dy-Lu .

The caption for Figure 1b should read: geometrically driven ferroelectricity in hexagonal (h-) RMnO_3 emerges from a tilt and deformation of MnO_6 bipyramids, which displace the R ions as indicated by the arrows.

The material mentioned in the caption for Figure 1d should read (o-) TbMnO_3 .

In the caption for Figure 2, the reference for the transition from a spiral order to a collinear antiferromagnetic order in orthorhombic TbMnO_3 under pressure should be reference 42.

On page 6, Figure 3a should be called out in the second paragraph, after “establishing a rigid coupling between the antiferromagnetic order parameter of the multiferroic constituent”.

On page 8, in the second paragraph of the “Non-equilibrium dynamics” section the composition for the material should read LuFe_2O_4 .

On page 9, right column, the symmetry group for h- RMnO_3 should read $P6_3c'm'$.

On page 10, in the section “Electromagnons” the second figure callout should be to Figure 1d.

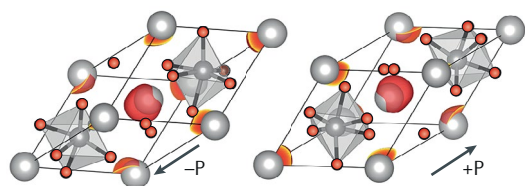
In the caption for Figure 6, the sentence before last should read: the excitations in parts b–d represent electromagnons.

In the section “Nonreciprocal directional dichroism” the reference for unidirectional propagation in CuB_2O_4 in magnetic fields should be Ref. 141, whereas the reference for nonreciprocal directional dichroism in gratings should be Ref. 135.

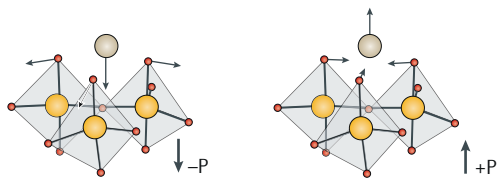
<https://doi.org/10.1038/s41578-019-0081-8> | Published online 17 January 2019

Corrected figure

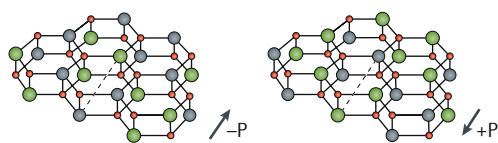
a Lone pair mechanism



b Geometric ferroelectricity

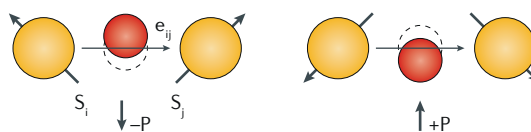


c Charge ordering

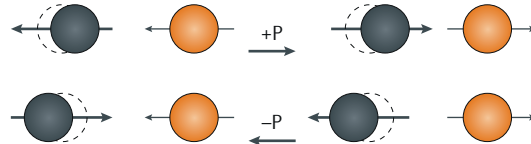


d Spin-driven mechanisms

Inverse Dzyaloshinskii-Moriya interaction



Exchange striction



Spin-dependent p-d hybridization

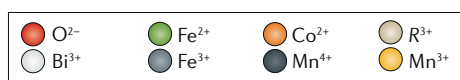
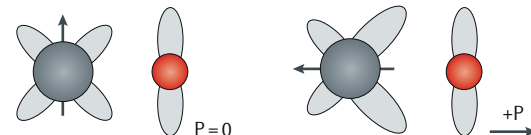


Fig. 1