Erratum: Giant orbital polarization of Ni^{2+} in a square planar environment
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In our original paper, we cited Ref. [63] [Y. Utz *et al.*, Phys. Rev. B **96**, 115135 (2017)] in connection with the $S = 1$ state of Ni^{2+} . Both the $S = 1$ and $S = 0$ cases were considered for Ni-doped SrCuO_2 in Ref. [63].

In view of this, the following sentences on page 3 of the original article need to be replaced. The original sentences read as follows: “We have also simulated XAS and XLD for the low-spin configuration ($S = 0$) by adjusting the crystal field parameters [65], which ensures the following expected crystal field splitting $d_{3z^2-r^2} < d_{xz/yz} < d_{xy} < d_{x^2-y^2}$ for a square planar environment [24]. The excellent matching [Fig. 2(c)] between the experimentally observed and simulated spectra with the low-spin configuration establishes Ni^{2+} is in the $S = 0$ state in the square planar environment.”

These should be replaced with the following: “We have also simulated XAS and XLD for the low-spin configuration ($S = 0$) by adjusting the crystal field parameters [63,65], which ensures the following expected crystal field splitting $d_{3z^2-r^2} < d_{xz/yz} < d_{xy} < d_{x^2-y^2}$ for a square planar environment [24]. The excellent matching [Fig. 2(c)] between the experimentally observed and simulated spectra with the low-spin configuration establishes Ni^{2+} is in the $S = 0$ state in the square planar environment (also see Ref. [63]).”