## Erratum: First-principles study of the elasticity, piezoelectricity, and vibrational modes in LiGaO<sub>2</sub> compared with ZnO and GaN [Phys. Rev. B 81, 235214 (2010)]

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In Fig. 3 the y-axis label should be  $\text{Im}[\varepsilon(\omega)]$ ,  $\text{Im}[-\varepsilon^{-1}(\omega)]$ .

Figure 5 (which was identical to Fig. 6 in the original) should be replaced by the Fig. 5 presented here.

The caption in Fig. 6 should say  $b_2(y)$  instead of  $b_2(x)$ . The text in the last paragraph of Sec. III E 2 should state: For  $b_2$  symmetry, the visual agreement between the spectra is excellent. Again, the spectrum can roughly be divided into three regions, a low-frequency mode near 300 cm<sup>-1</sup> followed by a three peak region between 400 and 550 cm<sup>-1</sup>, and a high-frequency band between 600 and 800 with a sharp dip in the middle. We note that the features in the middle range  $(350-550 \text{ cm}^{-1})$  are somewhat shifted up relative to the experiment while for the high-frequency range, the theory seems to underestimate slightly the experimental frequencies. Note, for example, the position of the sharp dip in reflectivity. The spectrum for  $b_1$  symmetry, on the other hand, shows a series of weak features below 450 cm<sup>-1</sup> and two main peaks between  $450-600 \text{ cm}^{-1}$  and  $600-800 \text{ cm}^{-1}$ .

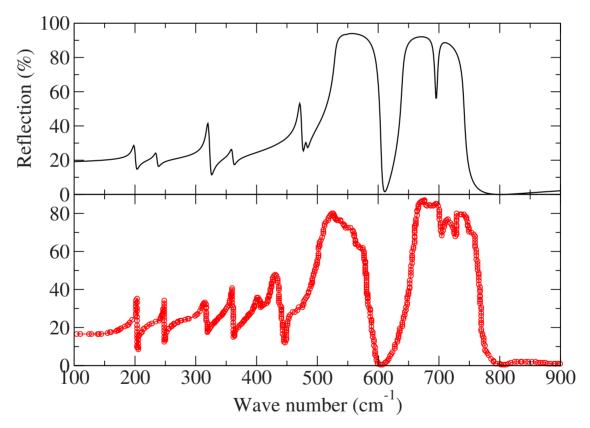


FIG. 5. (Color online) Comparison of experimental (lower panel) infrared reflectivity of  $b_1(x)$  with calculated (upper panel) reflectivity.