

## Correction to "Oxygen Reduction Reaction Activity of La-Based Perovskite Oxides in Alkaline Medium: A Thin-Film Rotating Ring-Disk Electrode Study"

Jaka Sunarso,\* Angel A. J. Torriero, Wei Zhou, Patrick C. Howlett, and Maria Forsyth\* J. Phys. Chem. C 2012, 116 (9), 5827–5834. DOI: 10.1021/jp211946n

In this paper, mistakes were made in the presentation of *y*-axis unit of Figure 6a,b, which actually shows the current value in  $\mu$ A instead of the current density value in mA cm<sup>-2</sup>. The

LaNi $_{0.5}$ Fe $_{0.5}$ O $_3$ , LaNi $_{0.5}$ Mn $_{0.5}$ O $_3$ , and LaNi $_{0.5}$ Cr $_{0.5}$ O $_3$  (LaNiO $_3$  as a reference), reaching a maximum percentage of  $\sim$ 2.4%. In Figure 6f, the maximum HO $_2$ <sup>-</sup> formation does not seem to shift

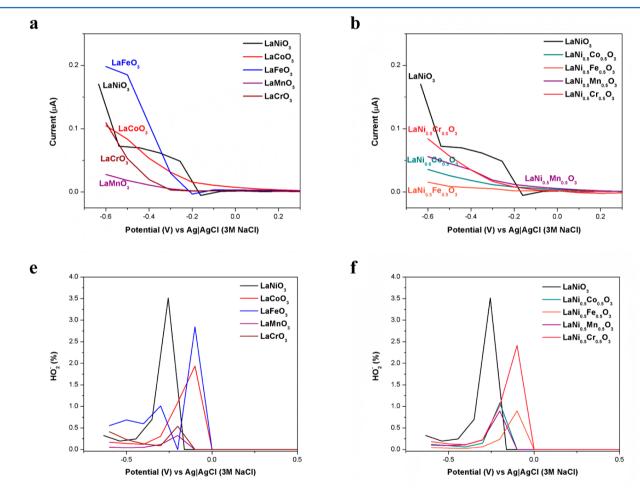


Figure 6. Ring current recorded on Pt ring electrode during ORR (simultaneously recorded with data in Figure 4a,b) using a thin film of (a) LaNiO<sub>3</sub>, LaCoO<sub>3</sub>, LaFeO<sub>3</sub>, LaMnO<sub>3</sub>, and LaCrO<sub>3</sub> and (b) LaNi<sub>0.5</sub>Co<sub>0.5</sub>O<sub>3</sub>, LaNi<sub>0.5</sub>Fe<sub>0.5</sub>O<sub>3</sub>, LaNi<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>3</sub>, and LaNi<sub>0.5</sub>Cr<sub>0.5</sub>O<sub>3</sub> (all in oxygen saturated 0.1 M KOH electrolyte using negative scan direction at 20 mV s<sup>-1</sup> scan rate). Percentage of hydrogen peroxide ( $H_2O_2$ ) formation during ORR using thin film of (e) LaNiO<sub>3</sub>, LaCoO<sub>3</sub>, LaFeO<sub>3</sub>, LaMnO<sub>3</sub>, and LaCrO<sub>3</sub> and (f) LaNi<sub>0.5</sub>Co<sub>0.5</sub>O<sub>3</sub>, LaNi<sub>0.5</sub>Fe<sub>0.5</sub>O<sub>3</sub>, LaNi<sub>0.5</sub>Mn<sub>0.5</sub>O<sub>3</sub>, and LaNi<sub>0.5</sub>Cr<sub>0.5</sub>O<sub>3</sub>.

correction also extends to the caption, which should be written as ring current instead of ring current densities. Our rechecking of calculations based on current instead of current density resulted in slight discrepancies, shown in the updated Figure 6e,f above.

Panels e and f of Figure 6 display the maximum  $HO_2^-$  formation of ~3.5%. The trend in Figure 6e is unaltered whereas Figure 6f shows less  $HO_2^-$  formation for LaNi<sub>0.5</sub>Co<sub>0.5</sub>O<sub>3</sub>,

to a more positive potential range relative to Figure 6e. The corrections do not alter the abstract and conclusions except for the amount of hydroperoxide ion of <2%, which should be <3.5%.

Published: November 29, 2012

