The voltage in the operation point under illumination has reached its maximum at nearly 0.5 V (Fig. 4.a). That has led to an electrical current of more than 0.8 mA (Fig. 4.b). Finally, the oxygen concentration has been shifted from 640 to 400 ppm O₂ (Fig. 4.c). Overall, it could be shown that the La₆Sr₄CrO₇ / SrTiO₃(100) heterostructure is a promising material system for photo-electrochemical energy conversion.

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