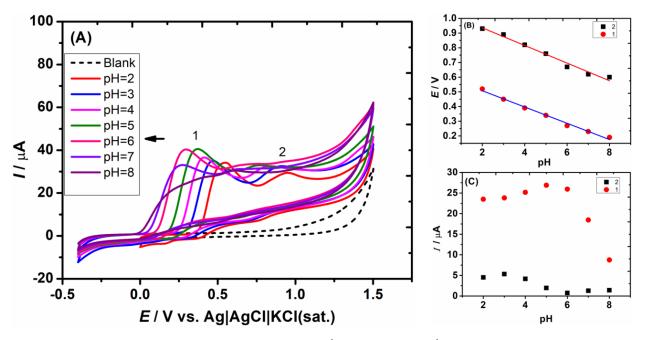
## **Supplementary Information**

## Additive Manufacturing towards the Fabrication of Greener Electrochemical Sensors for Antioxidants

Nélio I. G. Inoque,<sup>a,b</sup> Lucas V. de Faria<sup>a</sup> and Rodrigo A. A. Muñoz <sup>®</sup>\*<sup>a</sup>

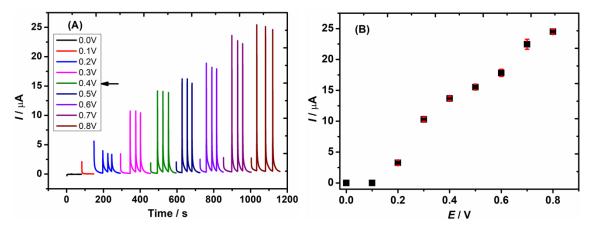
<sup>a</sup>Instituto de Química, Universidade Federal de Uberlândia, 38400-902 Uberlândia-MG, Brazil

<sup>b</sup>Escola Secundária de Sussundenga, Ministério da Educação e Desenvolvimento Humano, Vila de Sussundenga, Provícia de Manica, Moçambique

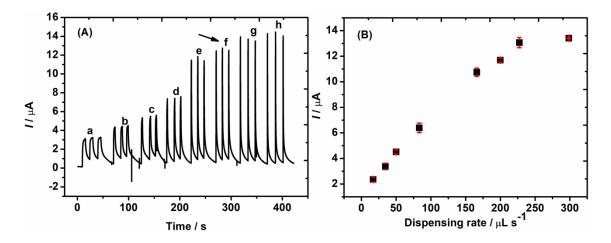


**Figure S1.** (A) Cyclic voltammetric recordings for 1 mmol  $L^{-1}$  PY in 0.12 mol  $L^{-1}$  BR buffer (pH range from 2.0 to 8.0). (B) pH influence at peak potential (Ep) and (C) pH influence at peak current (Ip).

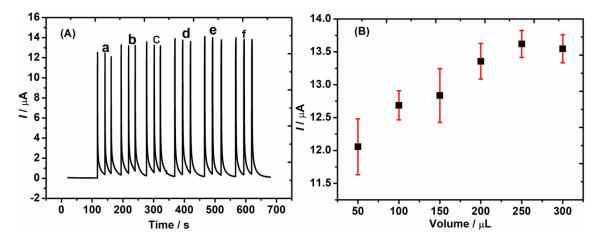
\*e-mail: munoz@ufu.br



**Figure S2.** (A) BIA-AD recordings obtained from 3 successive injections of 100  $\mu$ mol L<sup>-1</sup> PY. (B) Hydrodynamic voltammogram obtained by plotting the peak current values (average of 3 injections) as function of the corresponding applied potential. Electrolyte: BR buffer (0.12 mol L<sup>-1</sup>, pH 6.0). Conditions: injected volume: 100  $\mu$ L and dispensing rate: 200  $\mu$ L s<sup>-1</sup>.



**Figure S3.** BIA-AD recordings obtained from 3 successive injections of 100  $\mu$ mol L<sup>-1</sup> PY as function of dispensing rate (a) 16.9, (b) 34.5, (c) 50, (d) 83.3, (e) 166, (f) 200, (g) 227.3 and (h) 300  $\mu$ L s<sup>-1</sup>. (B) Influence of the dispensing rate on peak current (Ip) of the PY. Conditions: injected volume: 100  $\mu$ L and working potential: 0.4 V.



**Figure S4.** BIA-AD recordings obtained from 3 successive injections of 100  $\mu$ mol L<sup>-1</sup> PY as function of injected volume (a) 50, (b) 100, (c) 150, (d) 200, (e) 250 and 300  $\mu$ L. (B) Influence of the injected volume on the peak current (Ip) of the PY. Conditions: dispensing rate: 200  $\mu$ L s<sup>-1</sup> and working potential: 0.4 V.

