SUPPLEMENTARY MATERIAL TO

An electrochemical and radiotracer investigation on lead dioxide: influence of the deposition current and temperature

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Fig. S-1. SEM micrographs for PbO2 films deposited from 1 M HNO3 + 1 M Pb(NO3)2 at a constant current: a) 5 and b) 20 mA cm−2. Temperature: 23 °C.

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Fig. S-2. First scan linear sweep voltammetry curves for the reduction of PbO₂ prepared under different experimental conditions: 1) 5 mA cm⁻², 23 °C; 2) 20 mA cm⁻², 23 °C; 3) 5 mA cm⁻², 60 °C; 4) 5 mA cm⁻², 23°C. Curves 1–3 refer to β-PbO₂, curve 3 to α-PbO₂. Electrolyte: 0.5 M H₂SO₄. Scan rate: 5 mV s⁻¹.

Fig. S-3. Linear sweep voltammetry curves for the reduction of β-PbO₂ prepared at different temperature. The curves refer to electrodes previously polarized at 1.95 V for 1200 s: 1) 5 mA cm⁻², 23 °C; 2) 5 mA cm⁻², 60 °C. Scan rate: 5 mV s⁻¹. Electrolyte: 0.5 M H₂SO₄.