Submitted to *J. Phys. Chem. C*

Effect of size on the electrochemical stability of Pt nanoparticles deposited on gold substrate

S. Garbarino, A. Pereira [§], C. Hamel, É. Irissou, M. Chaker and D. Guay *

INRS-Énergie, Matériaux et Télécommunications,

1650 Blvd. Lionel-Boulet, C.P. 1020,

Varennes, Québec Canada J3X 1S2

SUPPLEMENTARY MATERIALS

REVISED VERSION of jp-2009-08724k

File: Pt_dissolution_Supp_Mater
Prepared: 15/01/2010

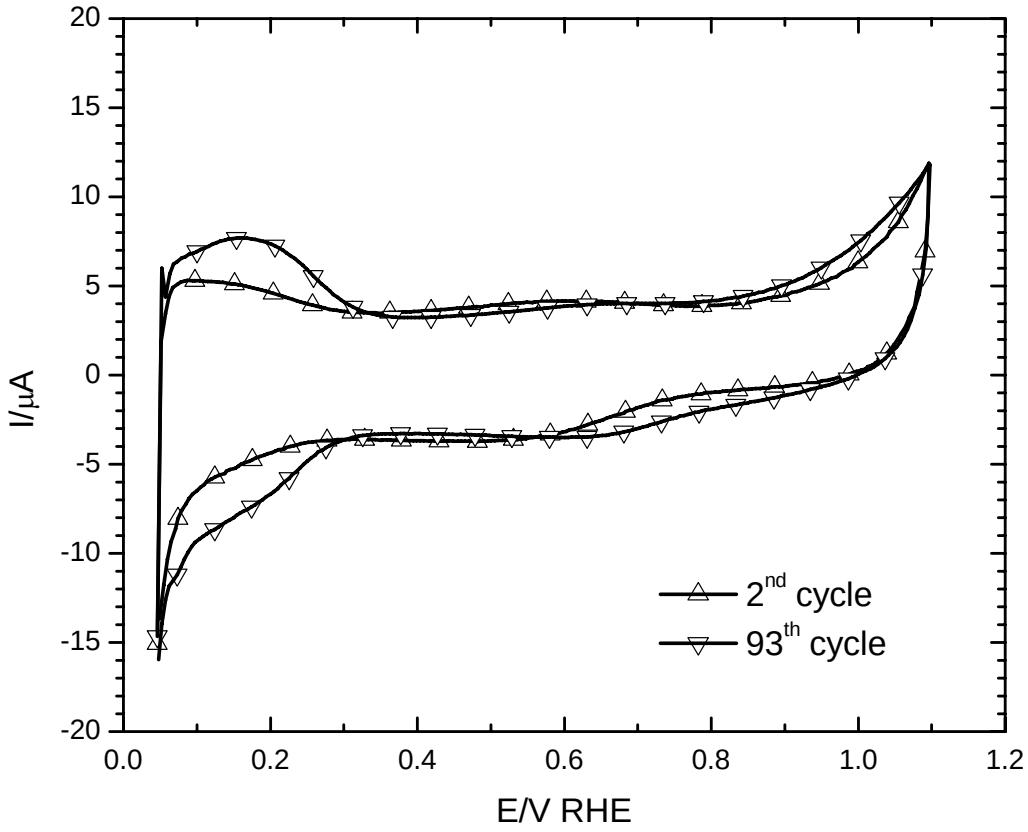

Fig. S1 Cyclic voltammograms of isolated Pt nanoparticles recorded in 0.5 M H_2SO_4 at room temperature. The initial diameter of the nanoparticle is 1.8 nm. The 2^{nd} and the 93^{th} cycle are shown.

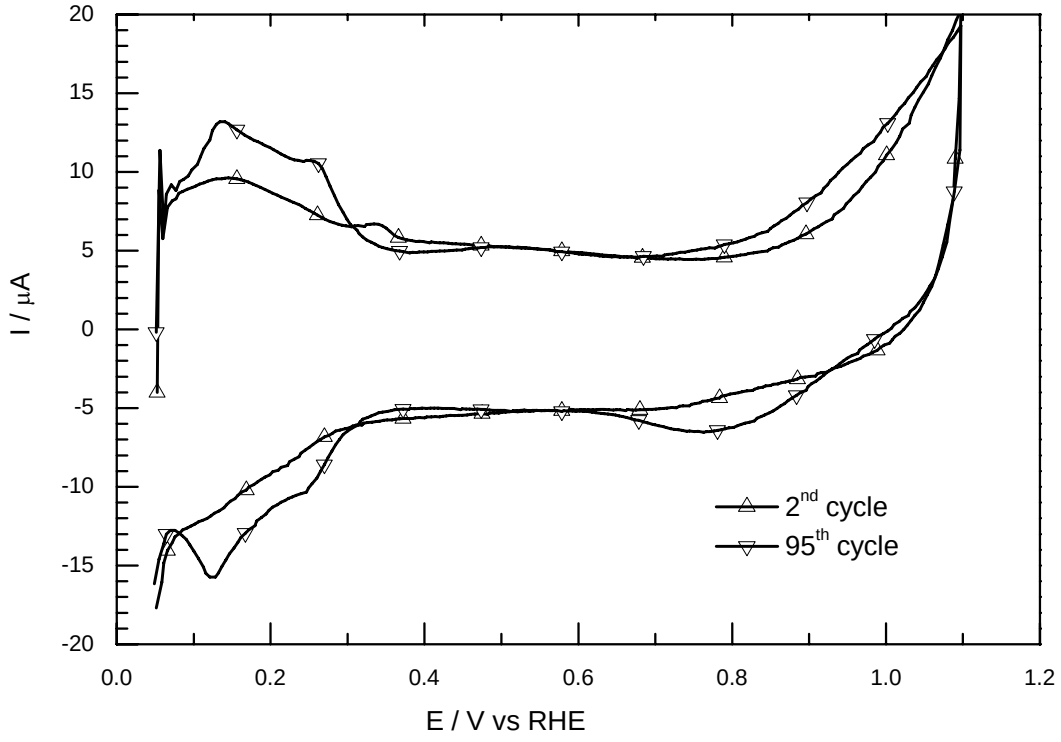

Fig. S2 Cyclic voltammograms of isolated Pt nanoparticles recorded in 0.5 M H_2SO_4 at room temperature. The initial diameter of the nanoparticle is 3.0 nm. The 2^{nd} and the 95^{th} cycle are shown.