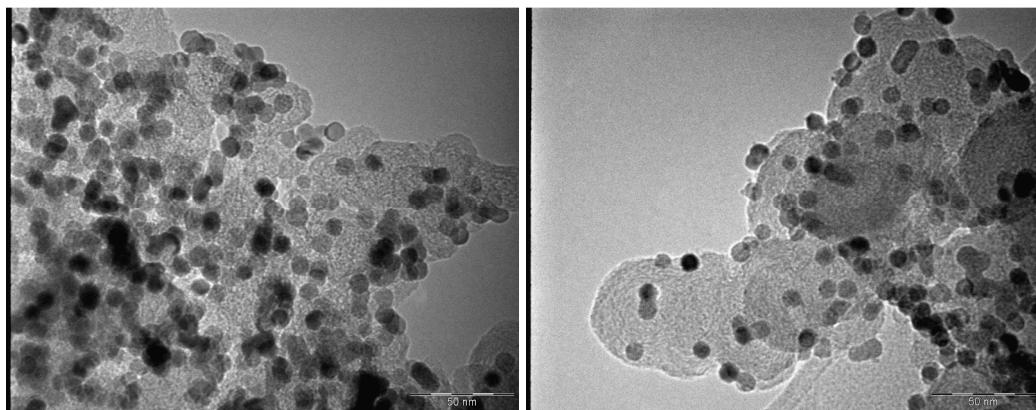


Supporting information

Enhanced oxygen reduction reaction activity and characterization of Pt-Pd/C bimetallic fuel cell catalysts with Pt-enriched surfaces in acid media

Licheng Liu, Gabor Samjeske, Shin-ichi Nagamatsu, Oki Sekizawa, Kensaku Nagasawa, Shinobu Takao, Yoshiaki Imaizumi, Takashi Yamamoto, Tomoya Uruga and Yasuhiro Iwasawa

(a)



(b)

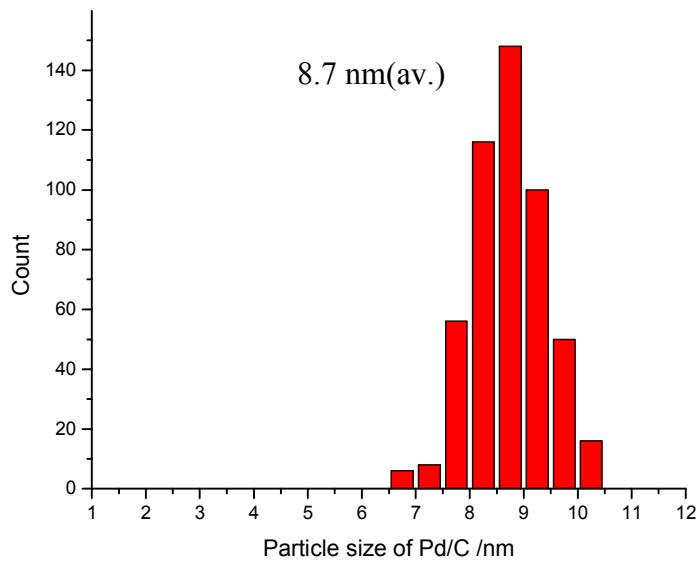


Figure S1 TEM images and particle size distribution for Pd/C

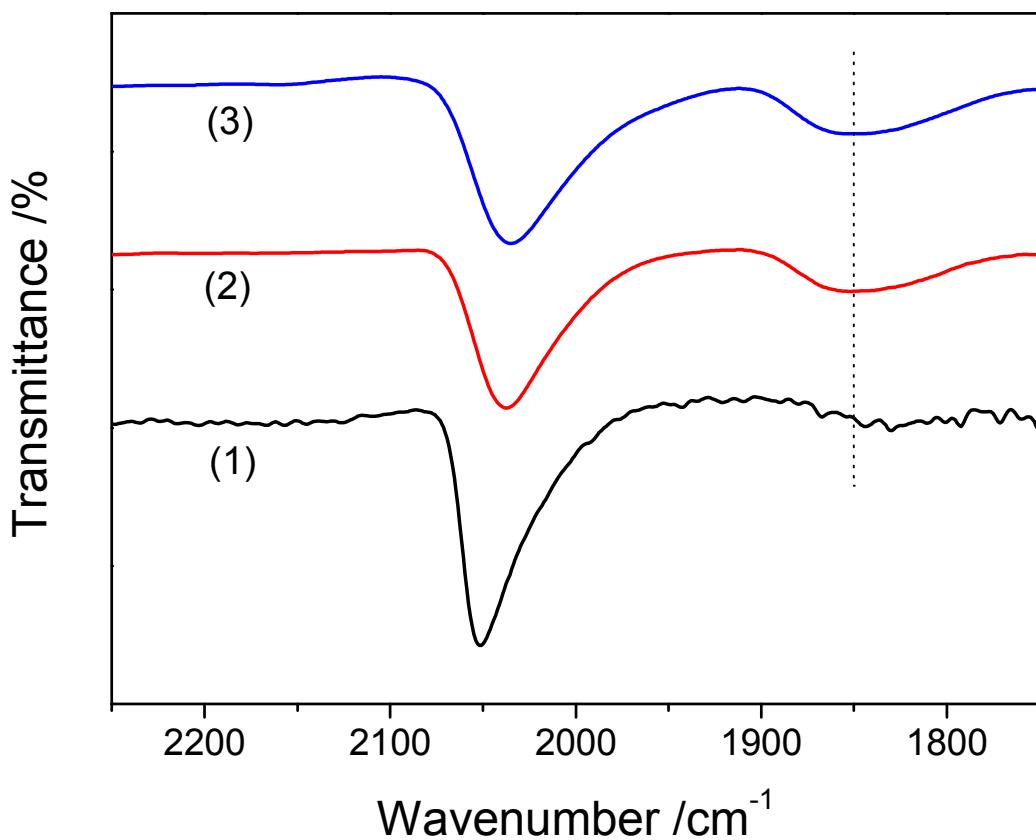


Figure S2. FT-IR spectra of CO adsorbed on (1) PdPt (2051 cm^{-1}), (2) 2PdPt (2037 cm^{-1}) and 4PdPt (2035 cm^{-1}) nanoparticles.

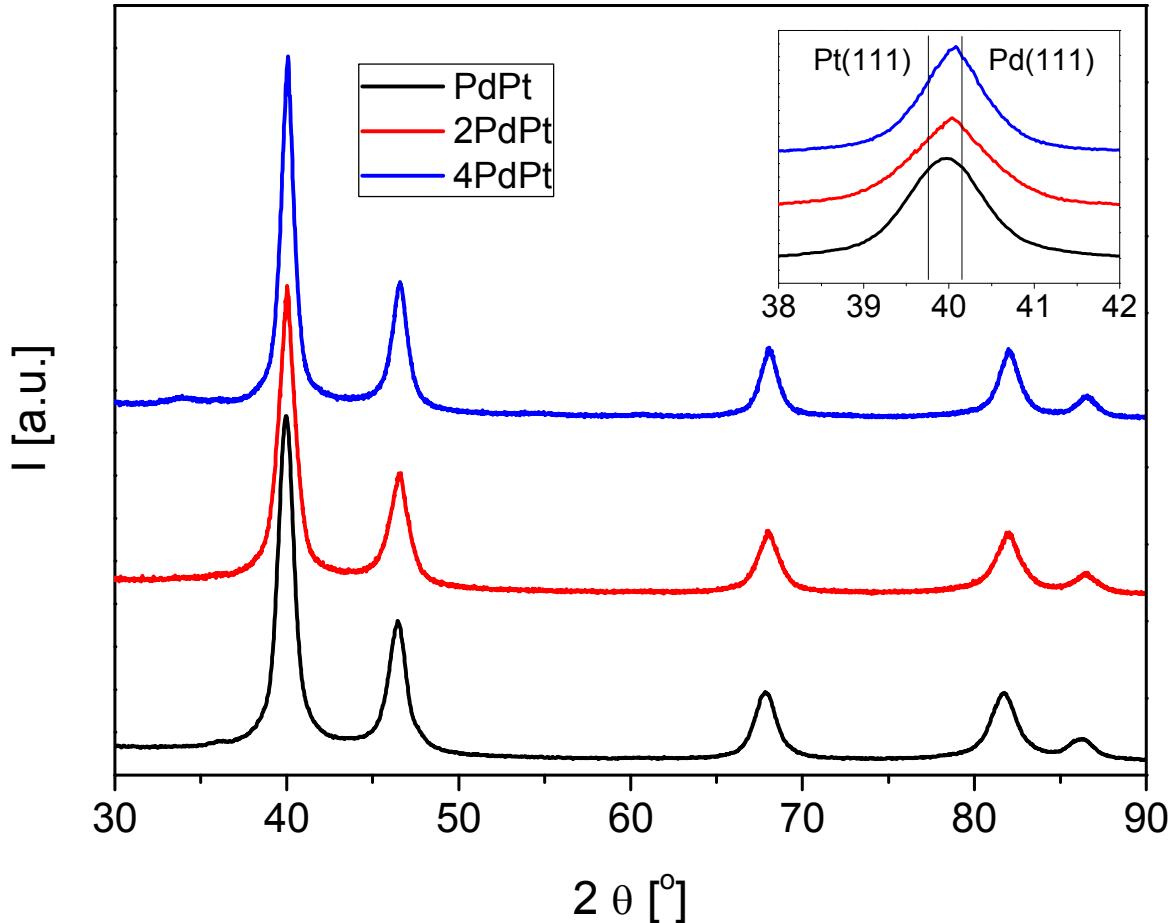


Figure S3. XRD patterns of (1) PdPt alloy/C, (2) 2PdPt alloy/C, and (3) 4PdPt alloy/C and enlargement of (111) diffraction peaks (inset).

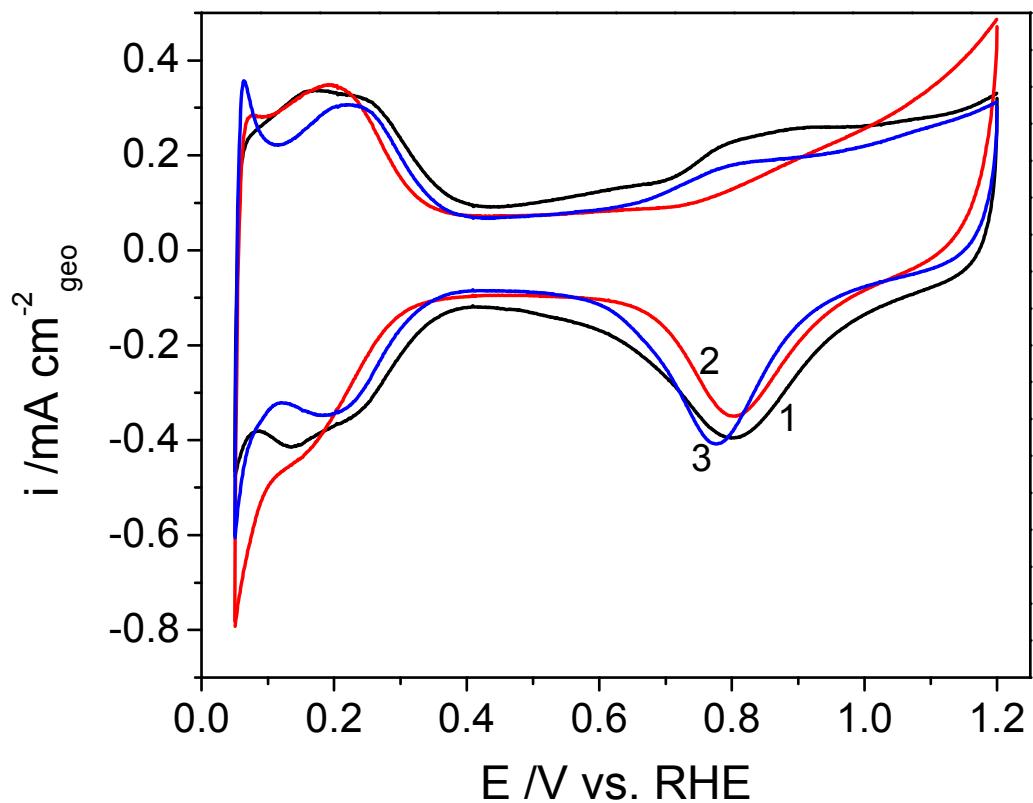


Figure S4. Cyclic voltammograms of (1) PdPt alloy/C, (2) 2PdPt alloy/C and (3) 4PdPt alloy/C in N_2 saturated 0.1 M HClO_4 electrolyte at a scan rate of 50 mV s^{-1} .