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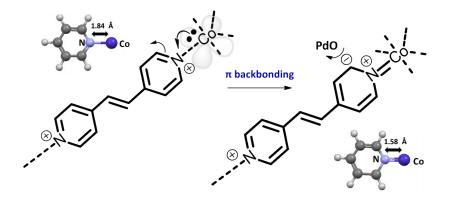


Fig. S1 - Resonance structures and double bond stabilization produced by a retrodonation effect.

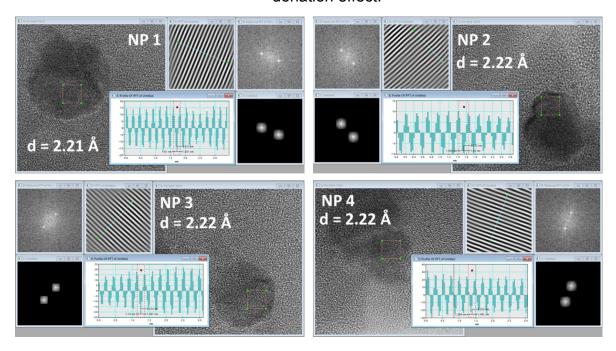
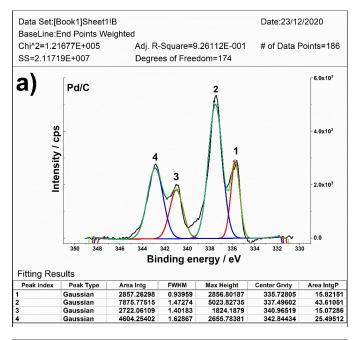


Fig. S2 – Measurement of the interplanar distance for the LEEL-037/Pd-C composite



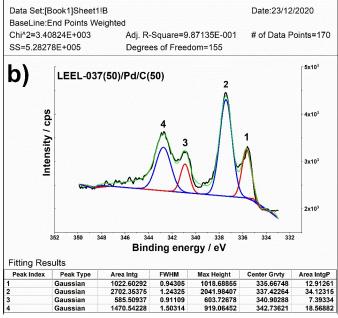


Fig. S3 – Peaks analysis to determine the Pd and PdO percentage in a) Pd/C and b) LEEL-037(50)/Pd/C(50) electrocatalysts

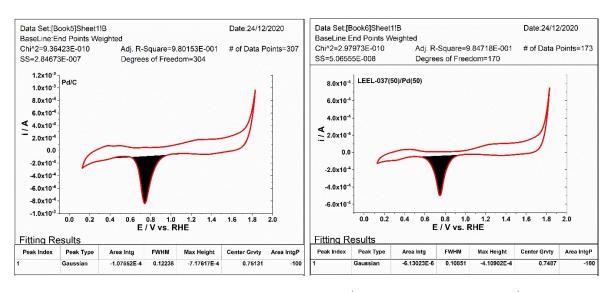


Fig. S4 – Coulombic charge determination for Pd/C (left) and LEEL-037(50)/Pd-C(50) (right)