Supporting Information

Enhanced Electrocatalytic Dechlorination of 2,4-Dichlorophenoxyacetic Acid on In-situ Prepared Pd-anchored $Ni(OH)_2$ Bifunctional Electrode: Synergistic Effect between H* Formation on $Ni(OH)_2$ and Dechlorination Steps on Pd

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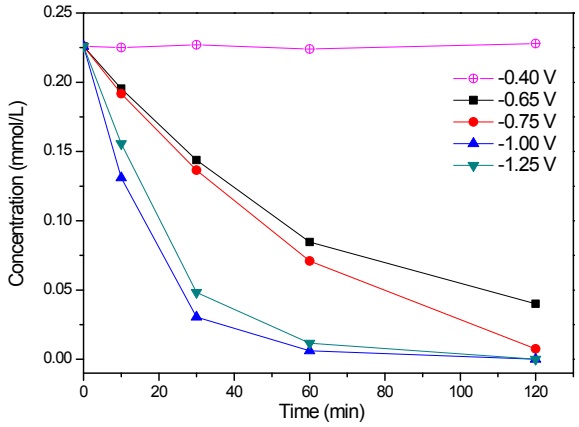

Figure S1. Time dependence of 2,4-D concentration at the applied potential of −0.40 V, −0.65 V, −0.75 V, −1.00 V and −1.25 V on Pd_1Cl_{32}.

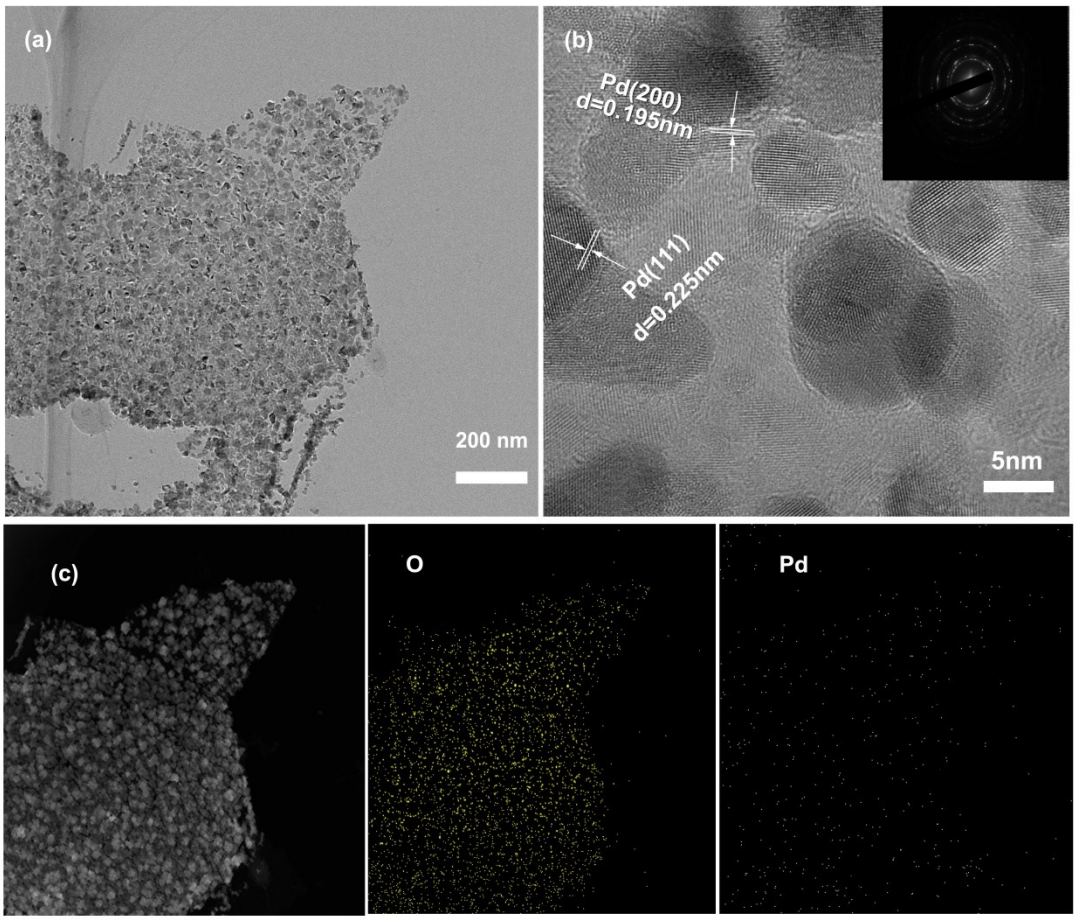

Figure S2. TEM images of Pd_1HCl_{32} (a) TEM (b) HRTEM and (c) Mapping of element.

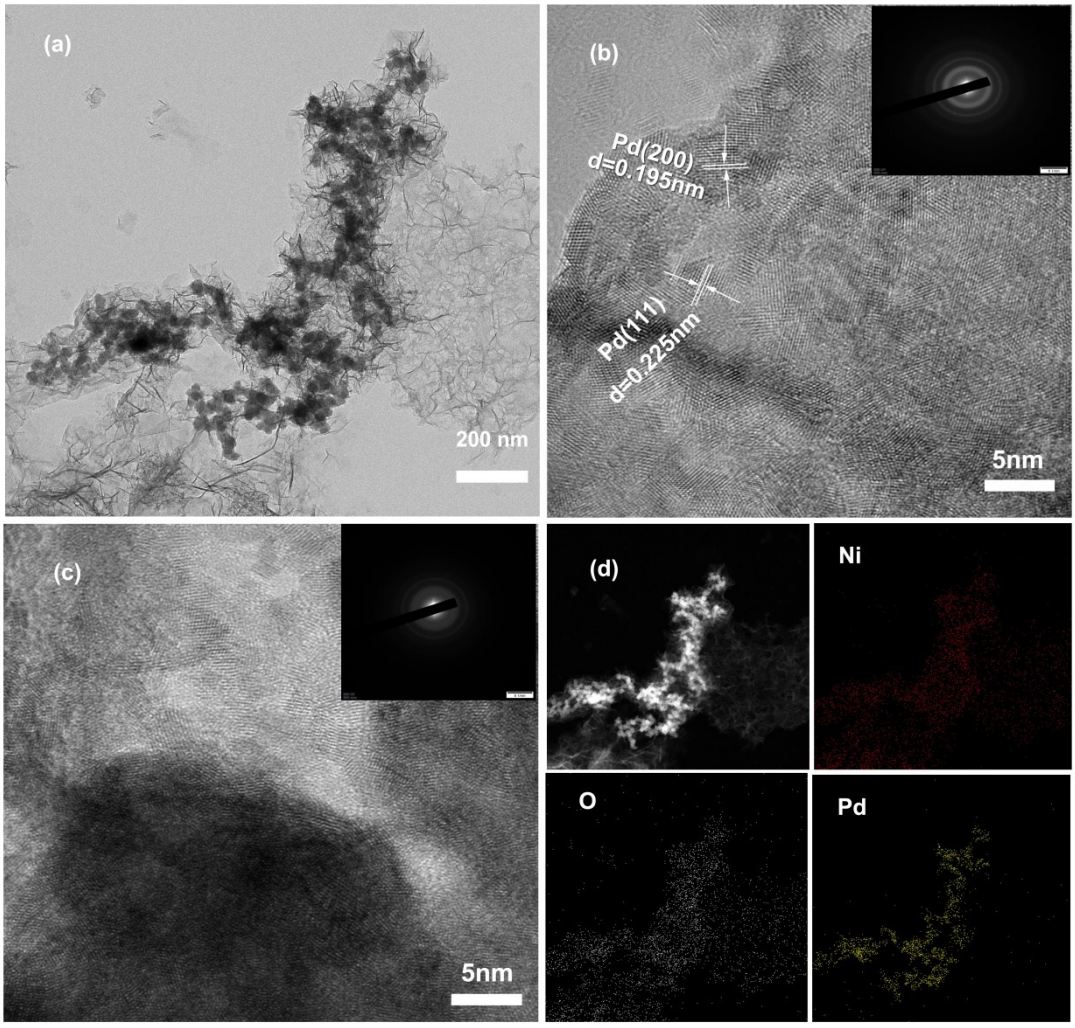

Figure S3. TEM images of Pd_1Cl_5 (a) TEM, (b) HRTEM of Pd, (c) HRTEM of Ni and (d) Mapping of element.

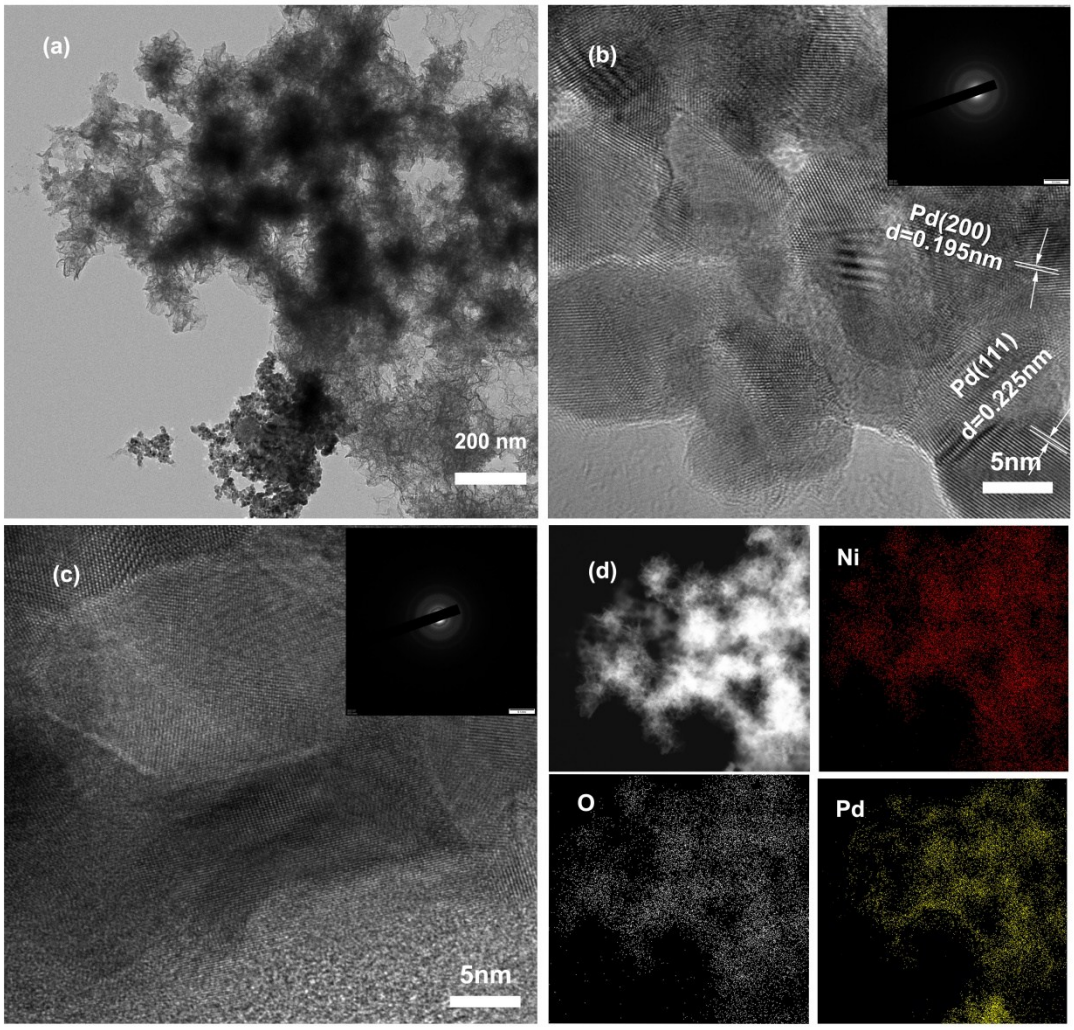

Figure S4. TEM images of Pd_1Cl_{302} (a) TEM, (b) HRTEM of Pd, (c) HRTEM of Ni and (d) Mapping of element.

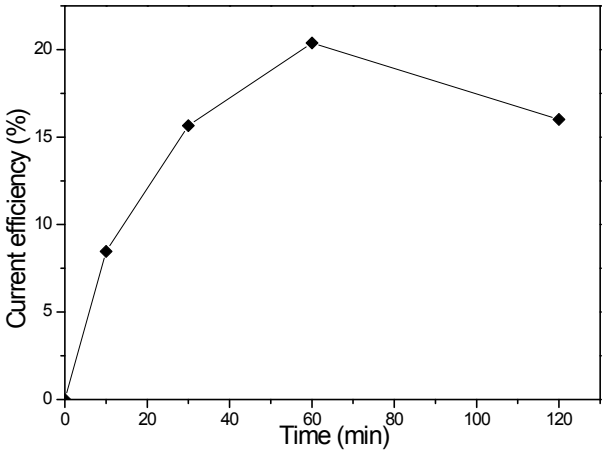

Figure S5. The trend of current efficiency with dechlorination time on Pd_1Cl_{32} at the applied potential of −0.65 V.

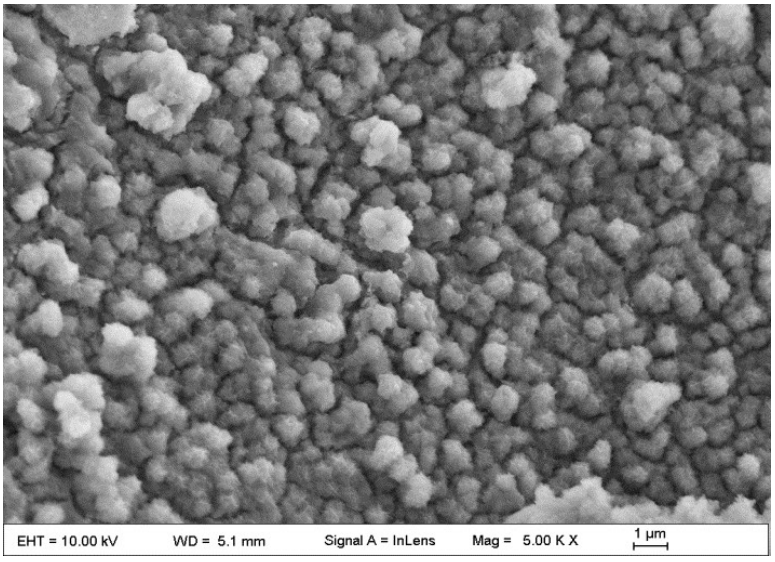

Figure S6. FE-SEM image of Pd_1Cl_{32} after 5 cycles of 2,4-D dechlorination.