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 PdCl$_{32}$. 

Figure S2. TEM images of Pd$_{1}$HCl$_{32}$ (a) TEM (b) HRTEM and (c) Mapping of element.
Figure S3. TEM images of Pd\textsubscript{1}Cl\textsubscript{5} (a) TEM, (b) HRTEM of Pd, (c) HRTEM of Ni and (d) Mapping of element.
Figure S4. TEM images of Pd$_2$Cl$_{302}$ (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$_4$Cl$_{32}$ at the applied potential of −0.65 V.

Figure S6. FE-SEM image of Pd$_4$Cl$_{32}$ after 5 cycles of 2,4-D dechlorination.