

## ***Electronic Supplementary Information for***

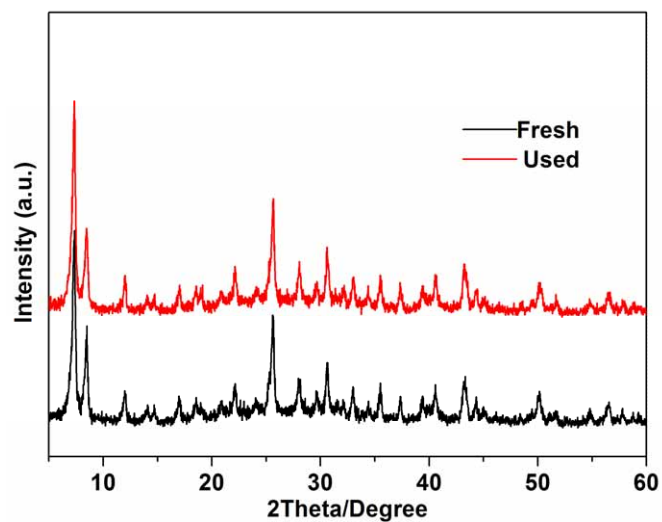
### **Highly dispersed palladium nanoparticles anchored on UiO-66(NH<sub>2</sub>) metal-organic framework as a reusable and dual functional visible-light-driven photocatalyst**

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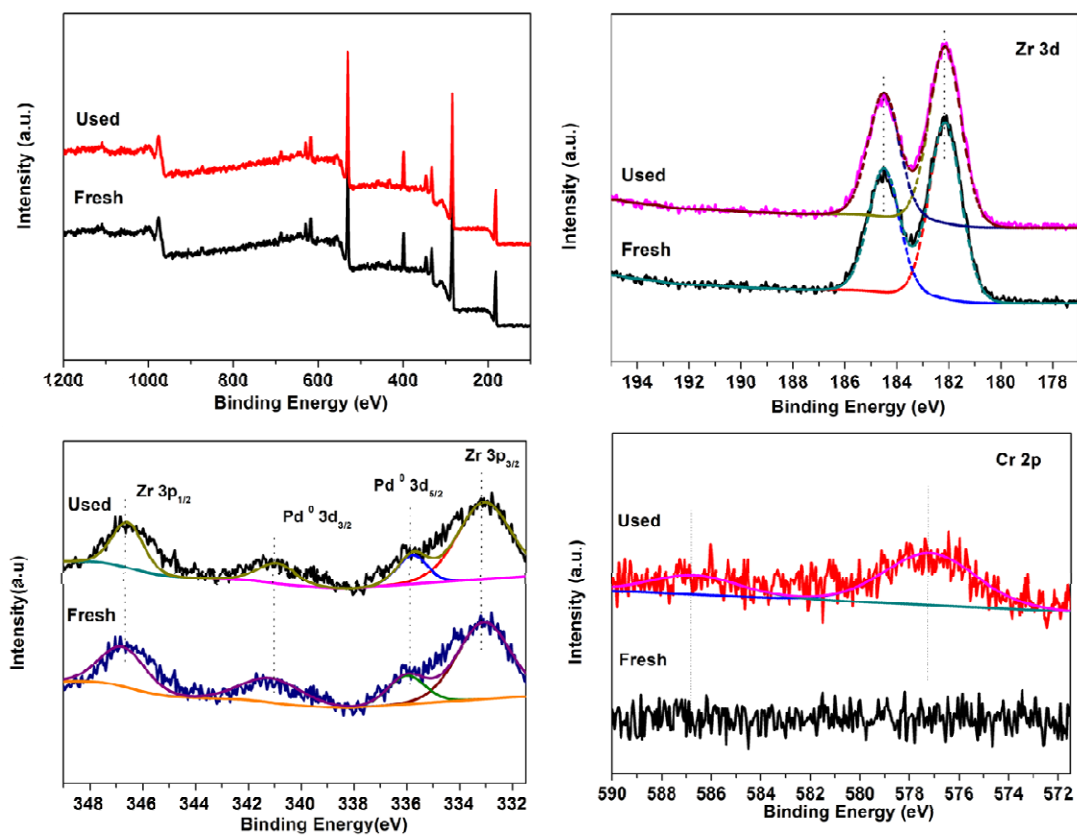
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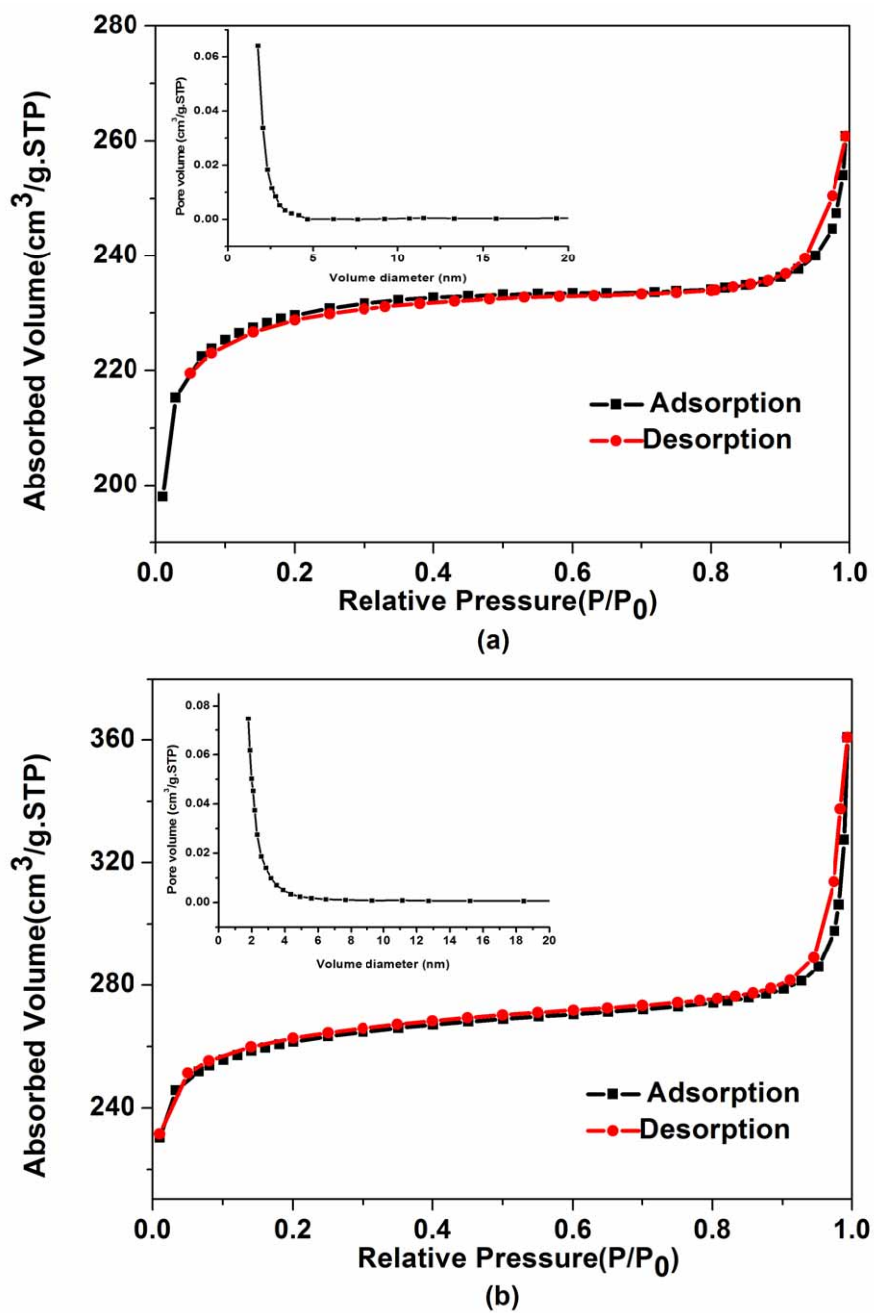
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**Fig. S1** XRD patterns of Pd@UiO-66(NH<sub>2</sub>) before and after the photocatalytic reduction of Cr(VI) reaction.



**Fig. S2** XPS patterns of Pd@UiO-66(NH<sub>2</sub>) before and after the photocatalytic reduction of Cr(VI) reaction.



**Fig. S3** BET adsorption-desorption isotherms of UiO-66(NH<sub>2</sub>) (a) and Pd@UiO-66(NH<sub>2</sub>) (b);  
inset is the corresponding pore size distribution.

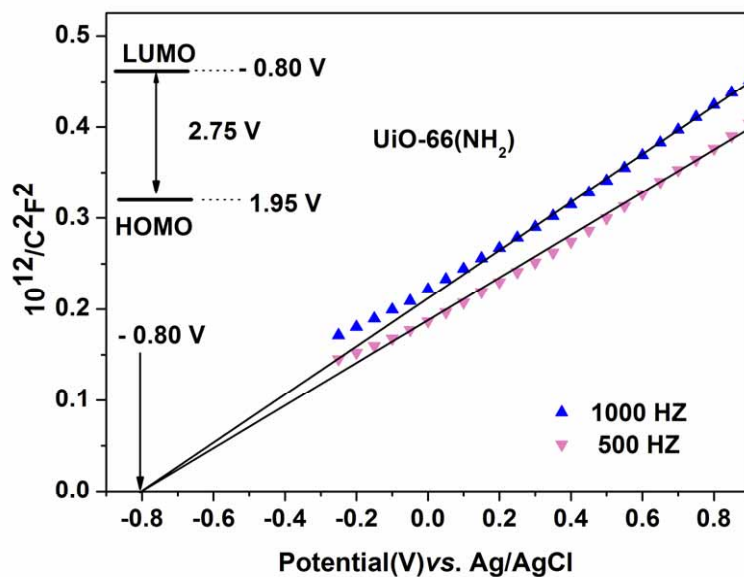


Fig. S4 Mott-Schottky plot of UiO-66(NH<sub>2</sub>) in 0.2 M Na<sub>2</sub>SO<sub>4</sub> aqueous solution (pH = 6.8).

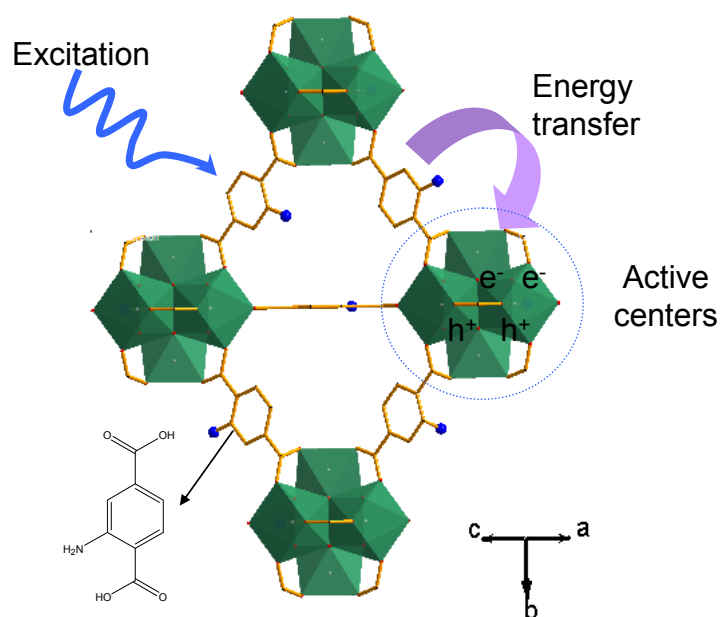


Fig. S5 A schematic drawing of the structure of UiO-66(NH<sub>2</sub>) based on the structure of UiO-66.

Zirconium-oxygen clusters (green part); N of the free amino groups (blue dots).