

Electronic Supplementary Information for the manuscript

CdS-decorated UiO-66(NH₂) nanocomposites
fabricated by a facile photodeposition process:
an efficient and stable visible-light-driven
photocatalyst for selective oxidation of alcohols

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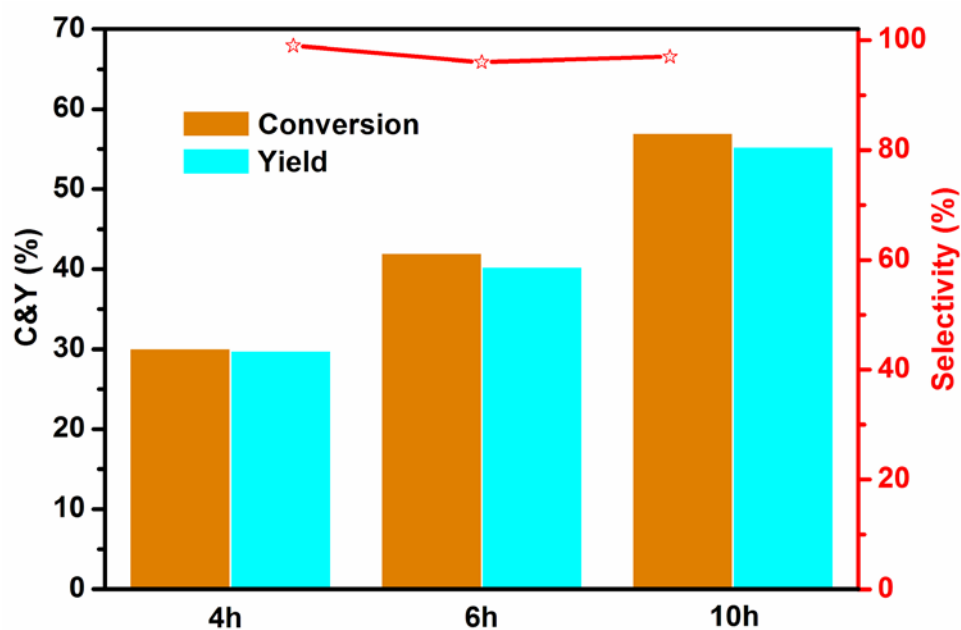


Fig. S1 Photocatalytic selective oxidation of benzyl alcohol over the sample CdS-U6 (8 mg) with different illumination time ($\lambda \geq 420$ nm).

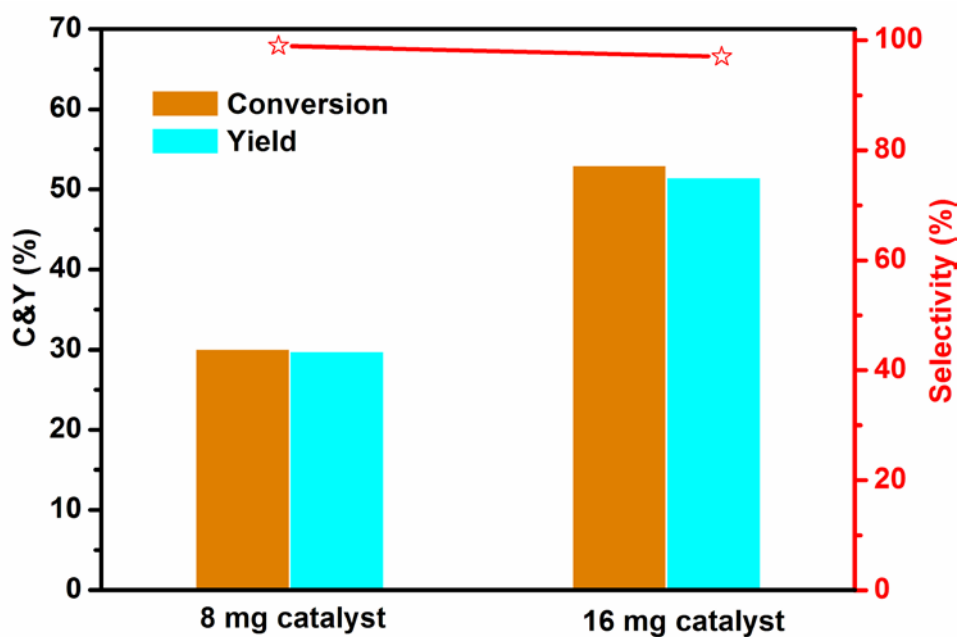


Fig. S2 Photocatalytic selective oxidation of benzyl alcohol over the sample CdS-U6 with different catalyst amount under visible light irradiation for 4h ($\lambda \geq 420$ nm).

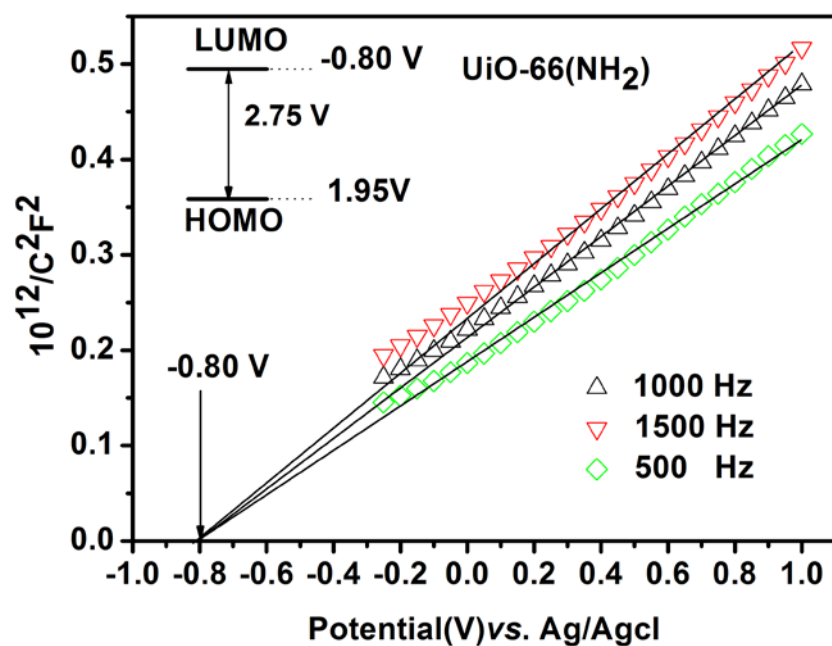


Fig. S3 Mott-Schottky plot of UiO-66(NH₂) in 0.2 M Na₂SO₄ aqueous solution (pH = 6.8).

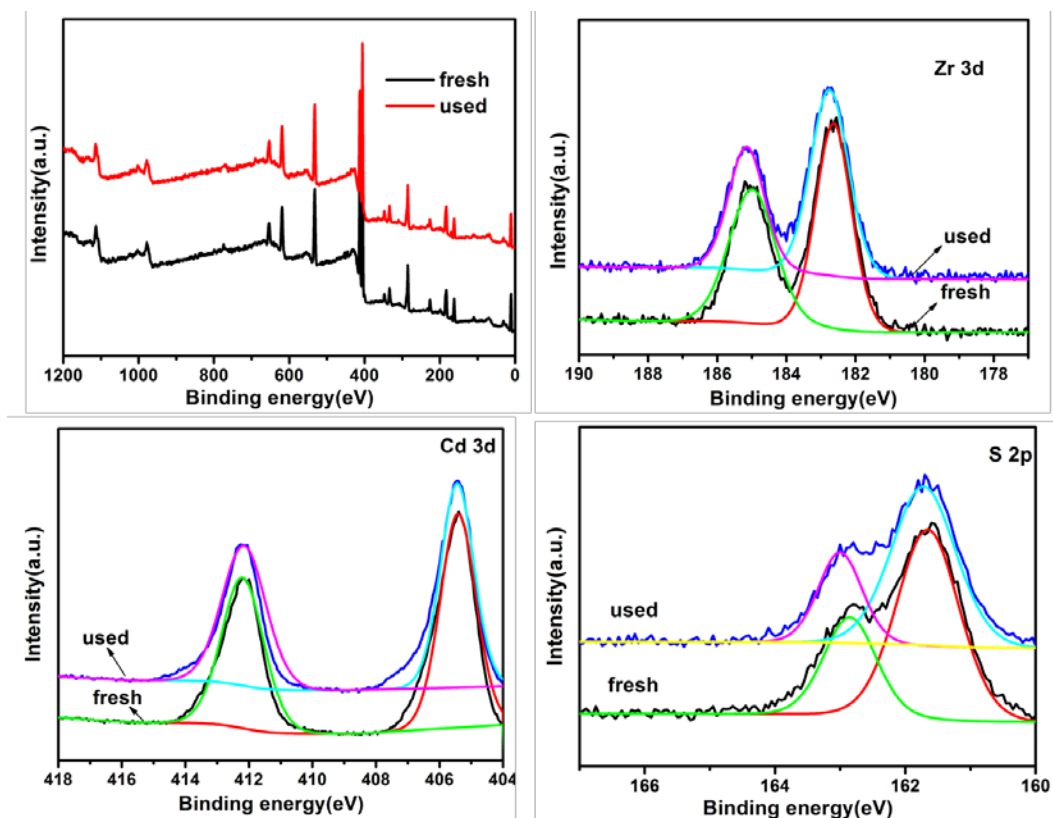


Fig. S4 XPS patterns of CdS-U6 before and after the photocatalytic reaction.

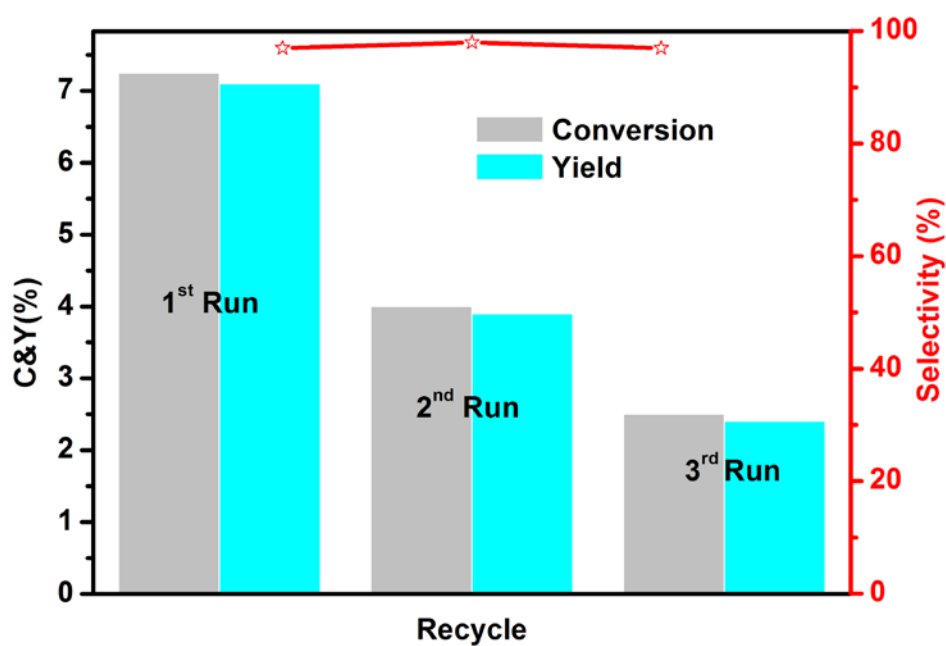


Fig. S5 Reusability of commercial CdS for the photocatalytic selective oxidation of benzyl alcohol.

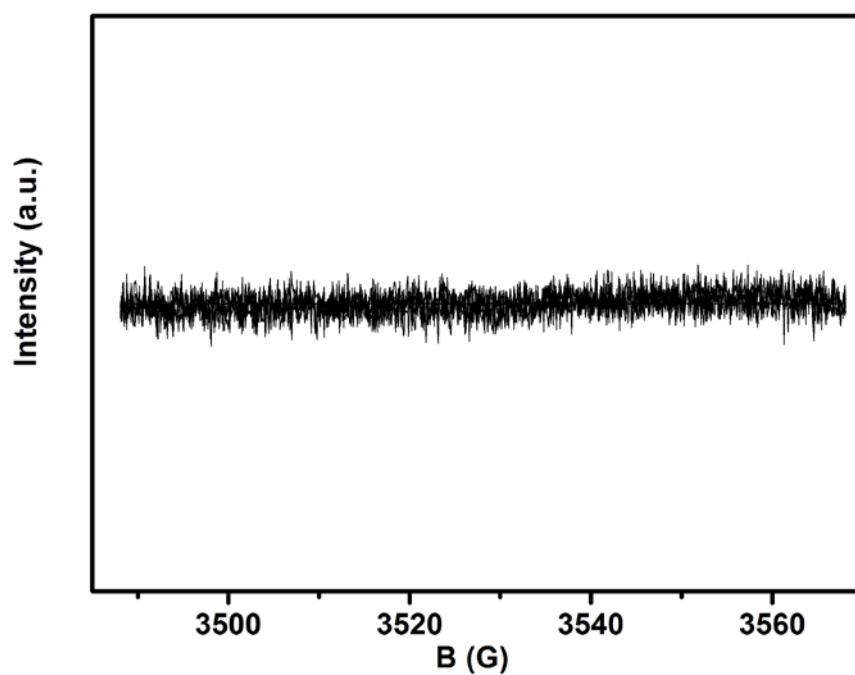


Fig. S6 ESR spectrum of the radical adduct trapped by DMPO (DMPO-OH[•]) in BTF over CdS-U6.