Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supporting information for:

Amino functionalized zirconium metal organic framework as catalyst for oxidative desulfurization

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Content

1.Table

Table S1 EDS analysis of different elements content of UiO-66-NH_2

Element	Weight%	Atomic%
C	3.45	15.55
N	0.05	0.18
O	0.88	2.99
Cl	0.04	0.06
Zr	1.04	0.62
Cu [a]	94.54	80.60
Total	100.00	100.00

[a] The EDS analysis select copper mesh for sample preparation.

Table S2 Textural properties of different samples.

Samples	S_{BET} [a] (m^2g^{-1})	V_{Pore} [b] (cm^3g^{-1})	D_{pore} [c] (nm)
UiO-66	832.13	0.16	2.16
UiO-66-NH_2	716.78	0.29	2.26
UiO-66-NH_2 recycled 7	363.61	0.14	2.87

[a] BET surface area.

[b] BJH Adsorption cumulative volume of pores.

[c] Adsorption average pore diameter.

2. Figures

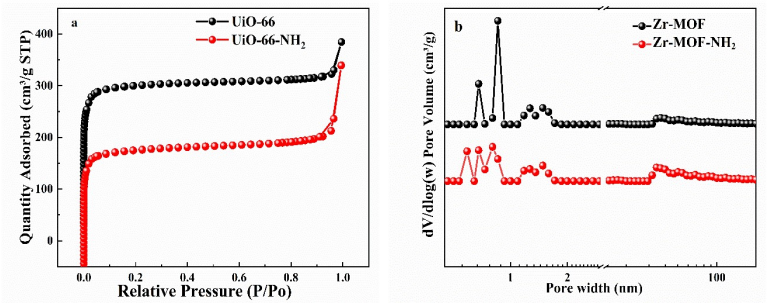

Fig. S1 N_2 sorption isotherms (a) and Pore size distribution (b) of UiO-66 and UiO-66-NH_2.

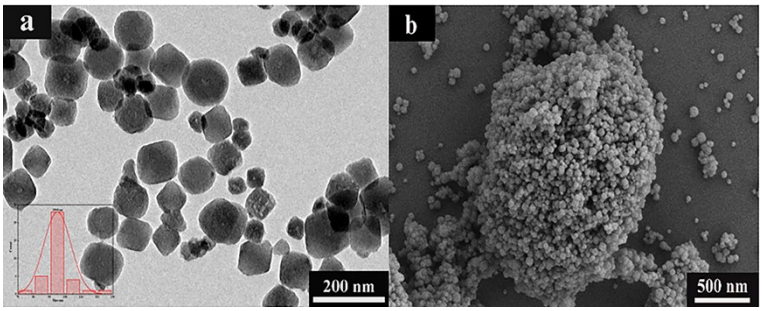

Fig. S2. TEM (a) and SEM (b) images of UiO-66-NH_2 recycled 7.

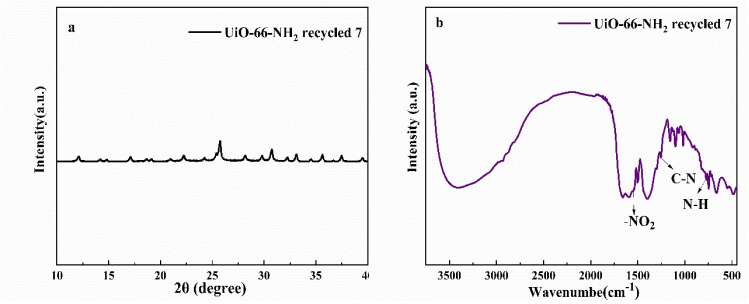

Fig. S3 XRD pattern (a) and FTIR spectra (b) of UiO-66-NH_2 recycled.

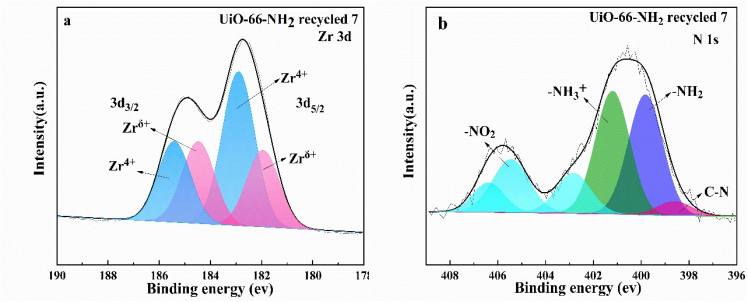

Fig. S4 XPS spectra of UiO-66-NH_2 recycled 7.