

Fig. S1. The dihedral angles between the two phenyl rings in complexes 1-4.



Fig. S2. The comparison of PXRD for complexes 1-4.



Fig. S3.The TG curves for complexes 1-4.



Fig. S4. Kubelka–Munk–transformed diffuse reflectance spectra of complexes 1-4.



Fig. S5. The comparison of PXRD for complexes 1-4 after photo-degradation.



Fig. S6. (a)-(d) UV-vis spectra for the uptake of AH from aqueous solutions at various time intervals for 1-4, respectively. The inset photographic images show the color change of MOFs before and after the adsorption of AH. (e) The removal percentage (%) of AH against irradiation time (min) in the presence of complexes 1-4, and without any catalyst during the adsorption process.



Fig. S7. (a)-(d) UV-vis spectra for the uptake of GR from aqueous solutions at various time intervals for 1-4, respectively. The inset photographic images show the color change of MOFs before and after the adsorption of GR. (e) The removal percentage (%) of GR against irradiation time (min) in the presence of complexes 1-4, and without any catalyst during the adsorption process.



Fig. S8. Comparison of PXRD for complexes 1-4 after dye adsorption.



Fig. S9. The possible mechanism between two amino organic dyes and MOFs.





Fig. S10. IR spectra of complexes 1-4 before and after the adsorption of organic dyes.