

Supporting Information

Hierarchical Porous Zeolitic Imidazolate Frameworks (ZIF-8) and ZIF8-derived ZnO@N-doped Carbon for Selective Adsorption and Photocatalytic Degradation of Organic Pollutants

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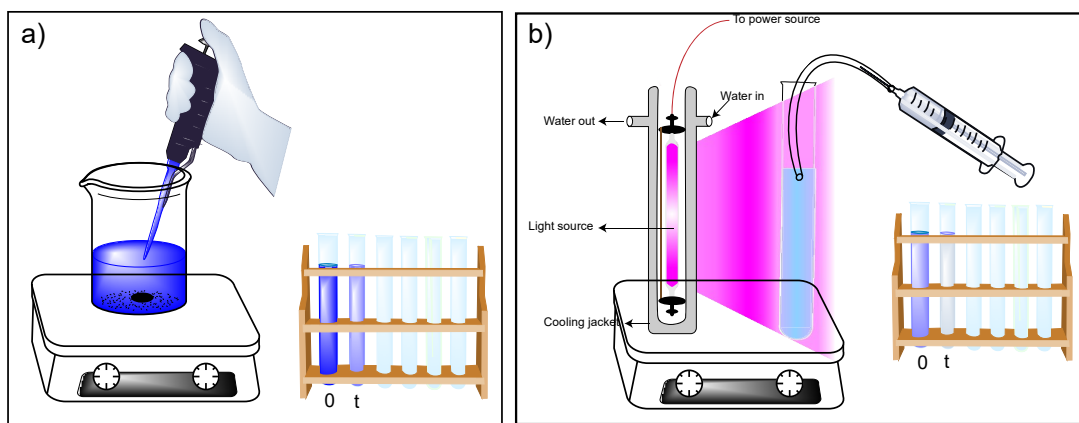


Figure S1 Schematic illustration of a) adsorption and b) UV photodegradation on ZnO@C.

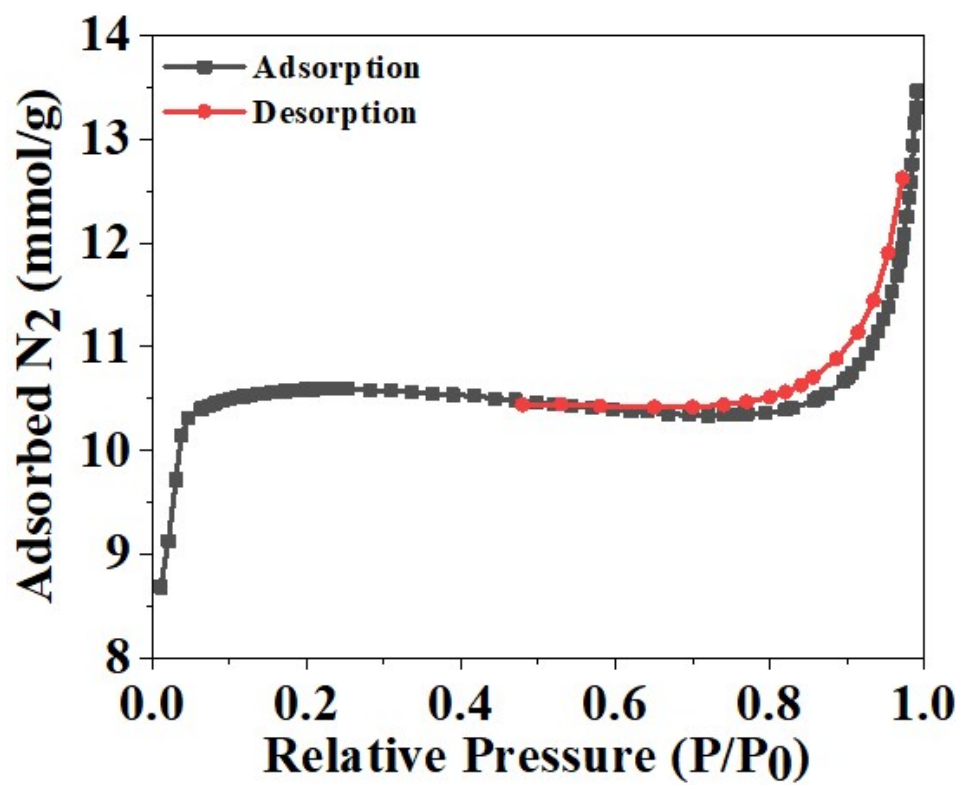


Figure S2 N₂ adsorption-desorption isotherm for ZIF-8.

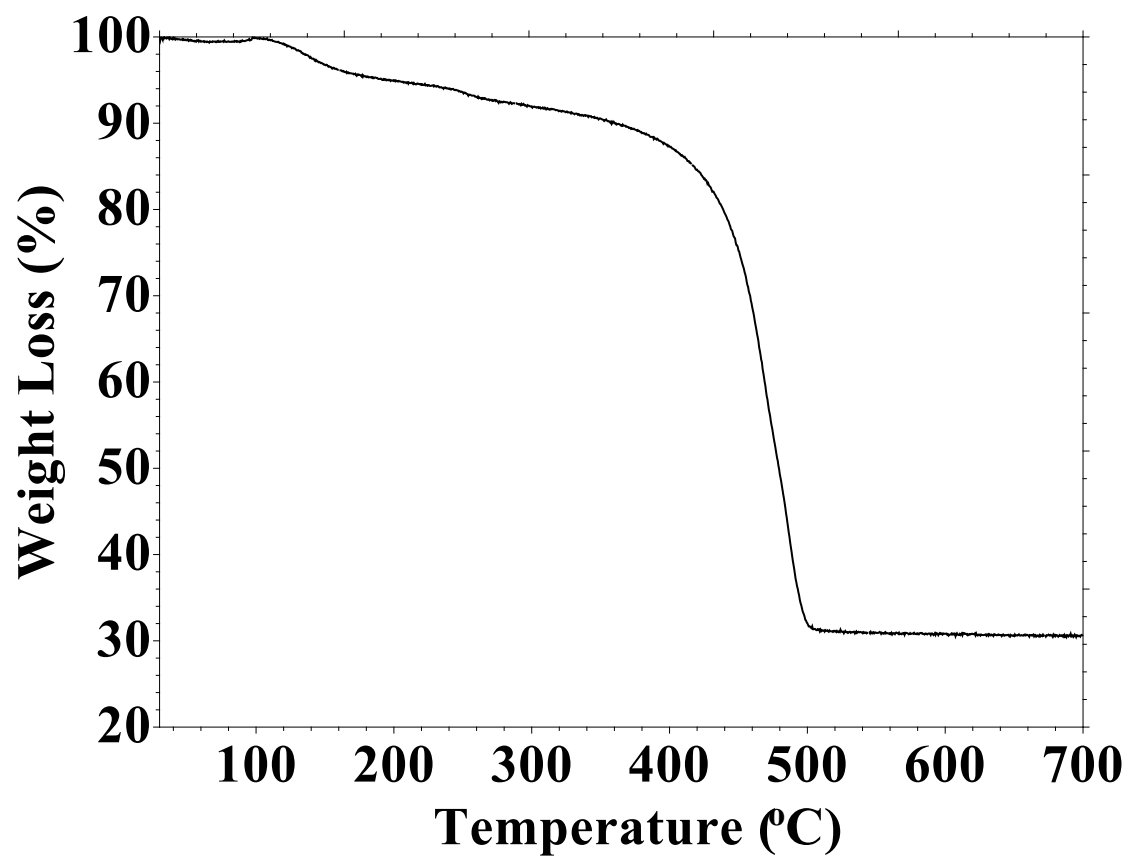


Figure S3 TGA for ZIF-8.

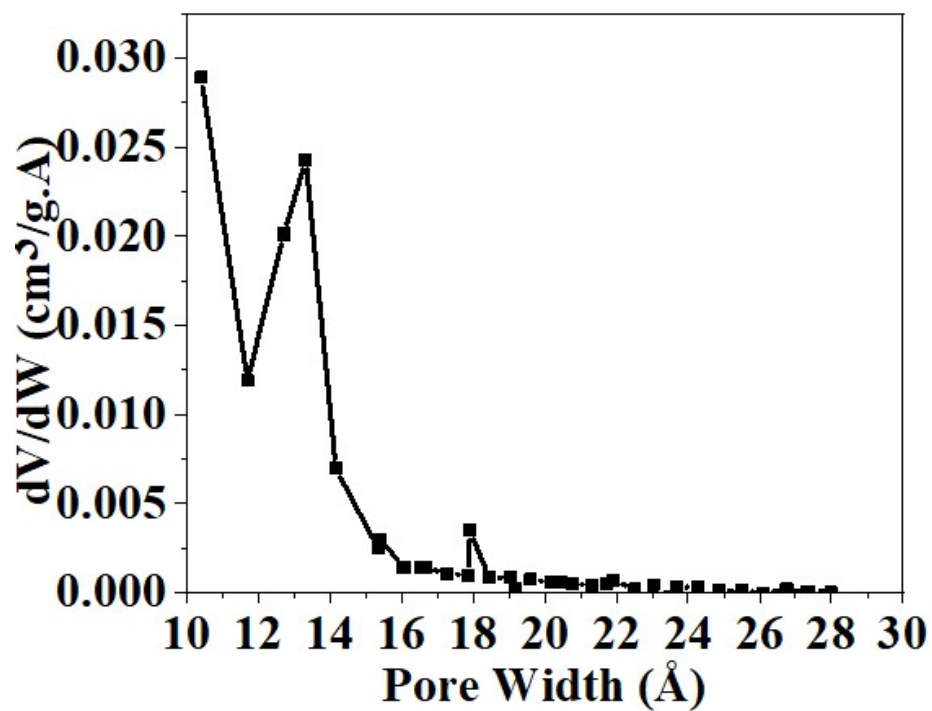


Figure S4 Pore size distribution using HK method.

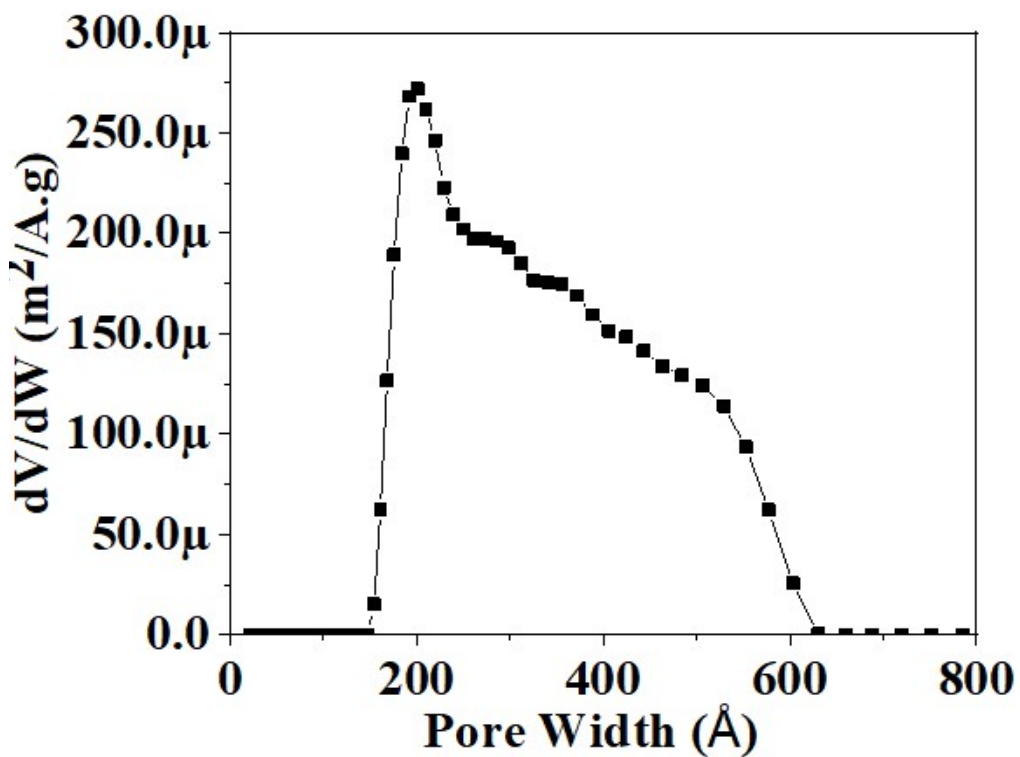


Figure S5 Pore size distribution using DFT method.

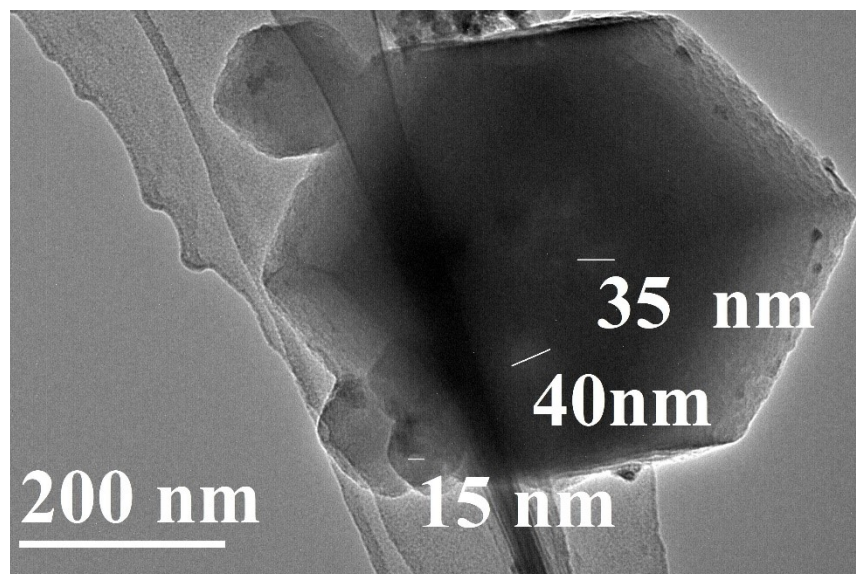


Figure S6 TEM image of ZIF-8 showing the pore size.

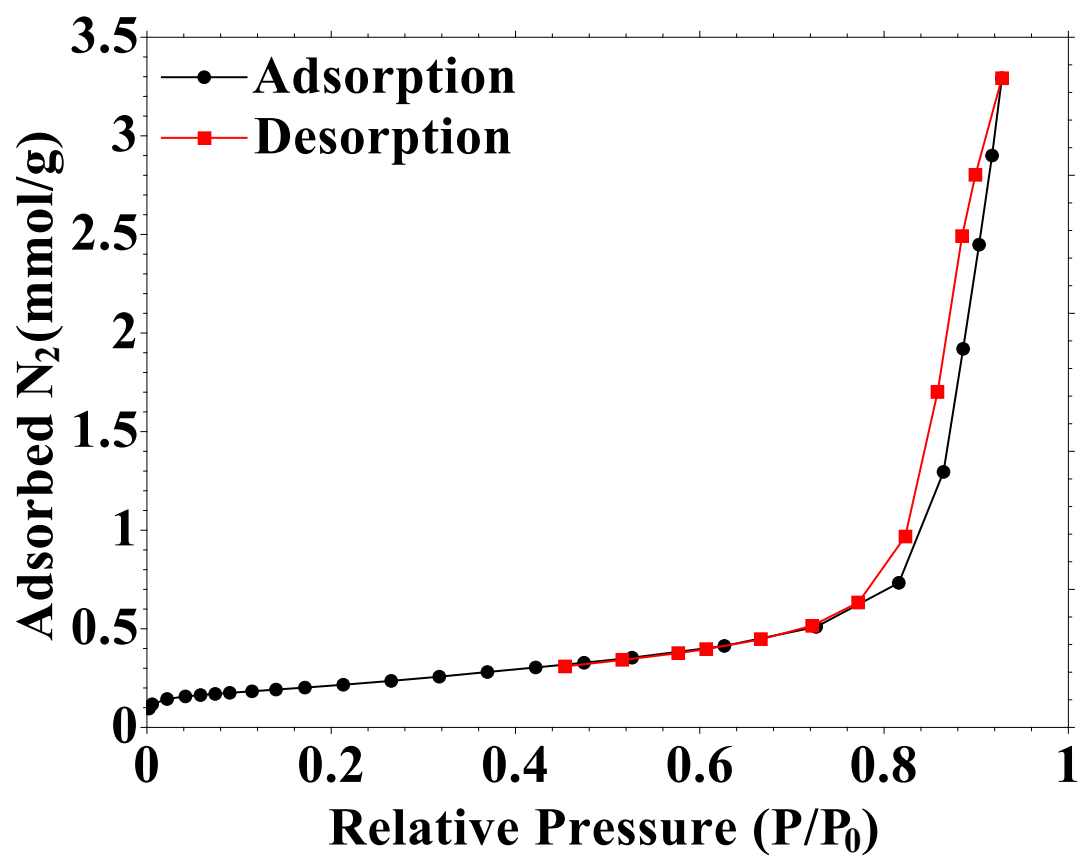


Figure S7 N₂ adsorption-desorption isotherm for ZnO@N-doped C.

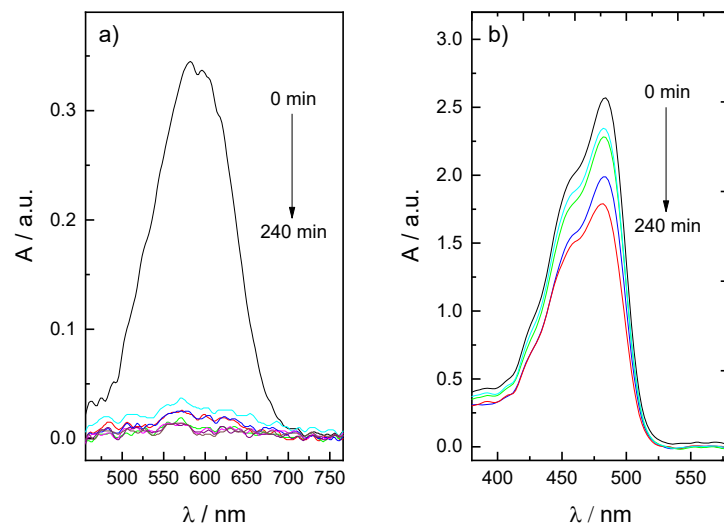


Figure S8 UV-Vis absorbance spectra of a) MeB and b) FLU during the adsorption on ZIF-8 at different time.

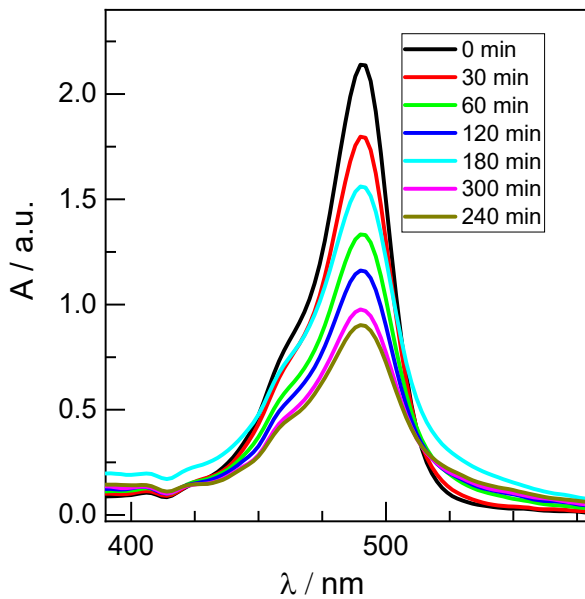


Figure S9 UV-Vis absorbance spectra of FLU under light irradiation on ZIF-8 at different time.

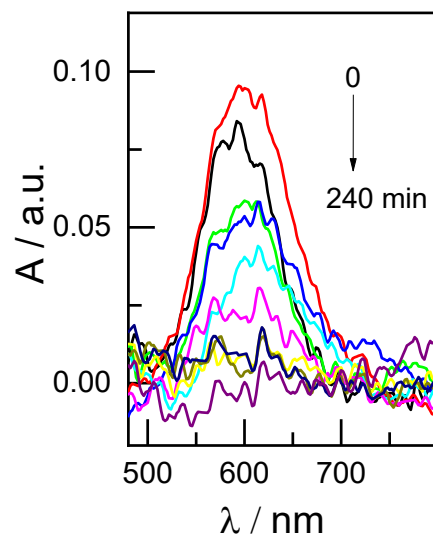


Figure S10 UV-Vis absorbance spectra of MeB under light irradiation using ZnO@C.

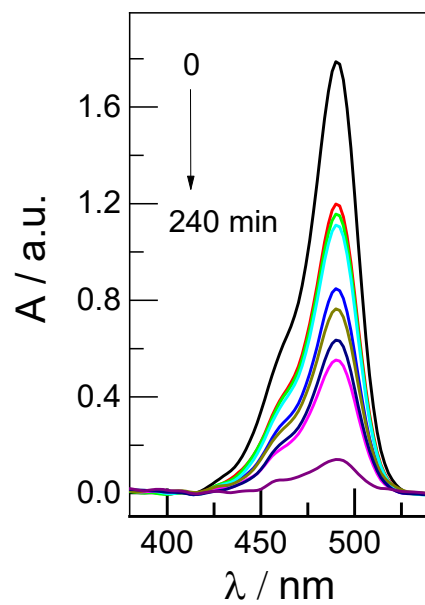


Figure S11 UV-Vis absorbance spectra of FLU under light irradiation using ZnO@C.

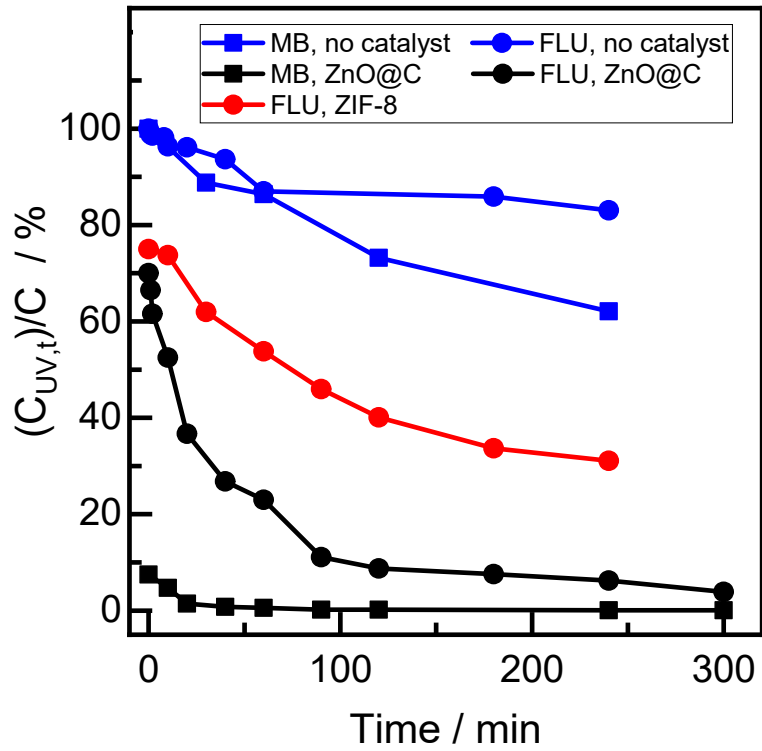


Figure S12 Photocatalysis efficiency for MeB and FLU without and with catalysts ZIF-8 and ZnO@C.

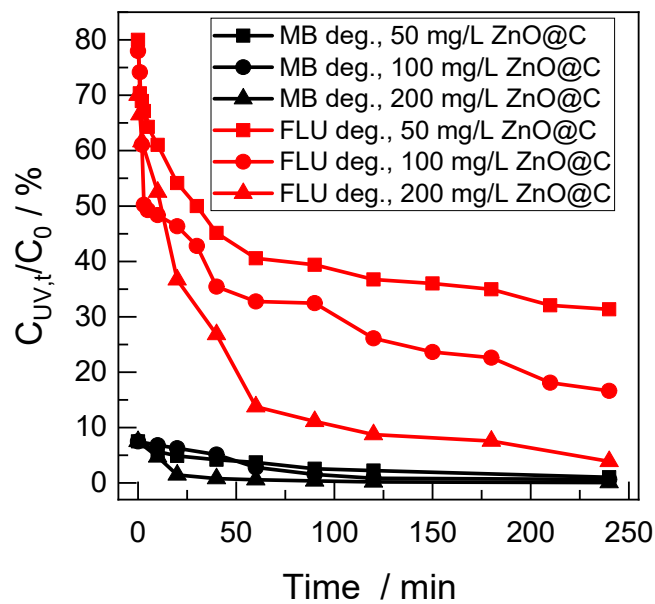


Figure S13 Photocatalysis efficiency for MeB and FLU on ZnO@C.