

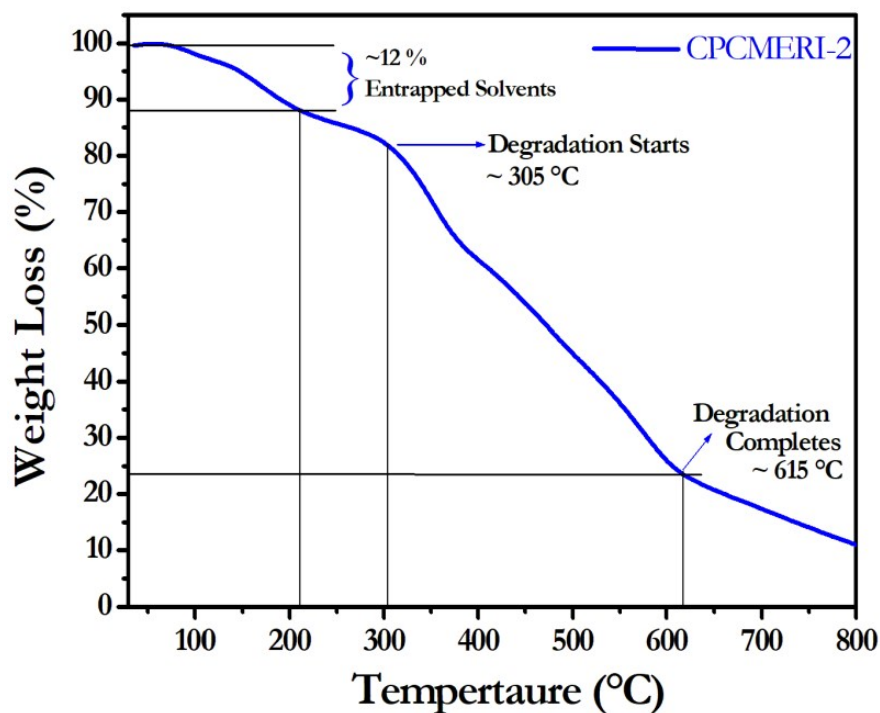
## Supporting Information

Tailor-made synthesis of an aminated based hydrophobic polymer for selective adsorption of toxic organic pollutants: an initiative towards waste water purification

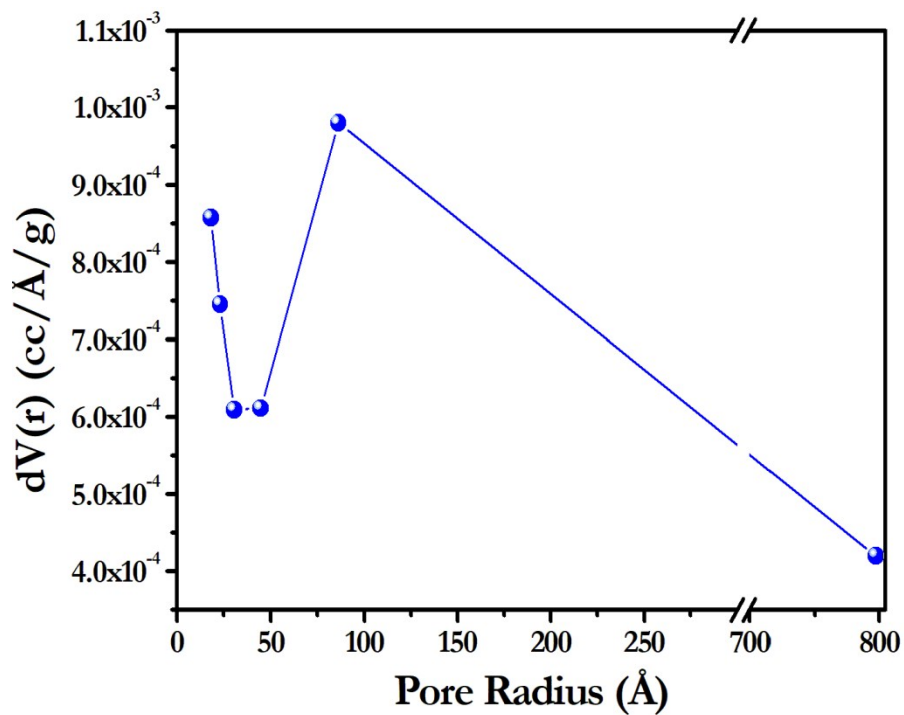
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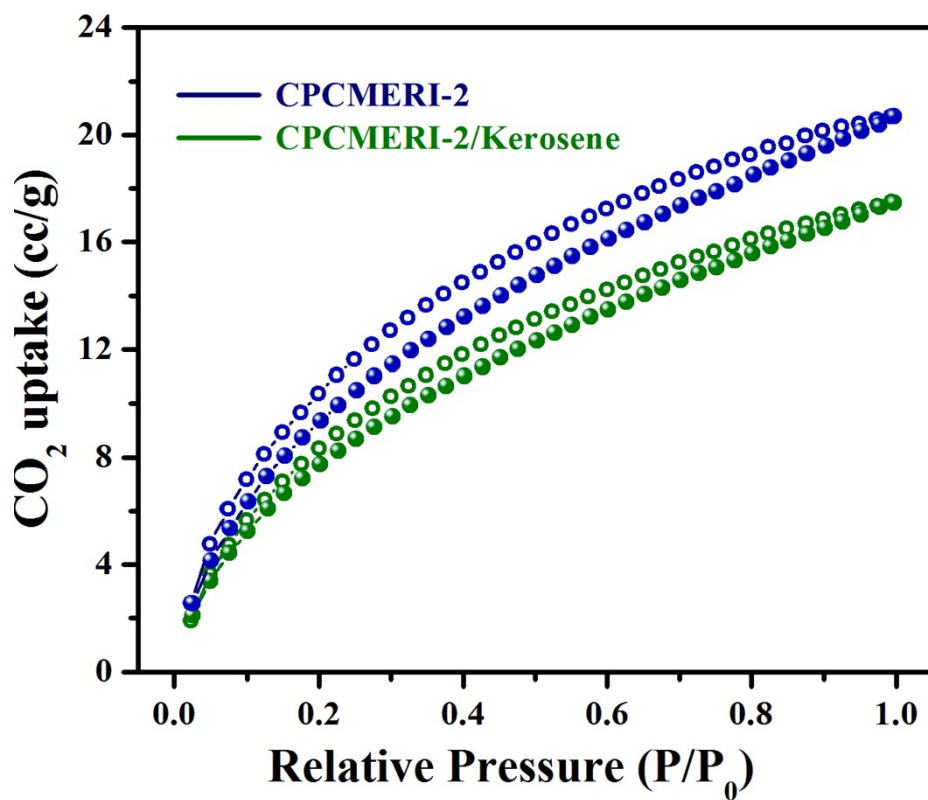
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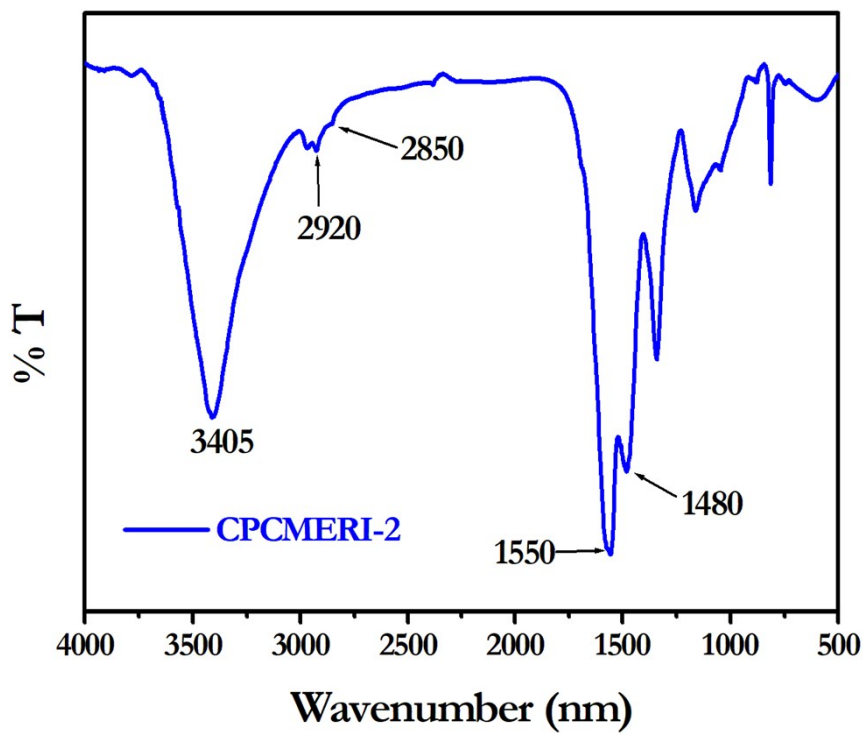
**Fig. S1** TGA of CPCMERI-2 under N<sub>2</sub> atmosphere (N<sub>2</sub> Flow rate 20.0 ml/min and Heating rate: 20.00°C/min).



**Fig.S2** Pore size distribution of CPCMERI-2 by BJH method considering the adsorption model.



**Fig. S3:** Comparative CO<sub>2</sub> adsorption isotherm of CPCMERI-2 before and after kerosene adsorption at 298K (Filled Circle: Adsorption; Blank Circle: Desorption).



**Fig. S4** FT-IR spectrum of CPCMERI-2 after 4 times recycling study of kerosene uptake showing the robustness of the polymer.