

Supplementary Material

Ultrafiltration Membranes Functionalized with Copper Oxide and Zwitterions for Fouling Resistance

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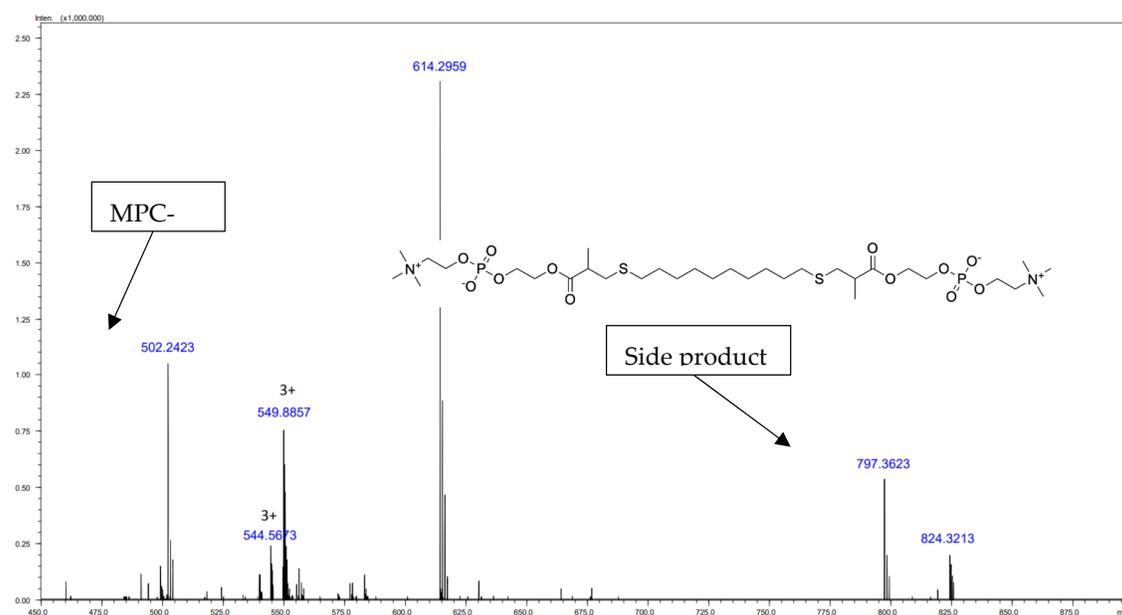


Figure S1. Mass spectrometry results for the MPC-SH synthesis, with a reaction time of 8 hours. The side product structure is shown on the right.

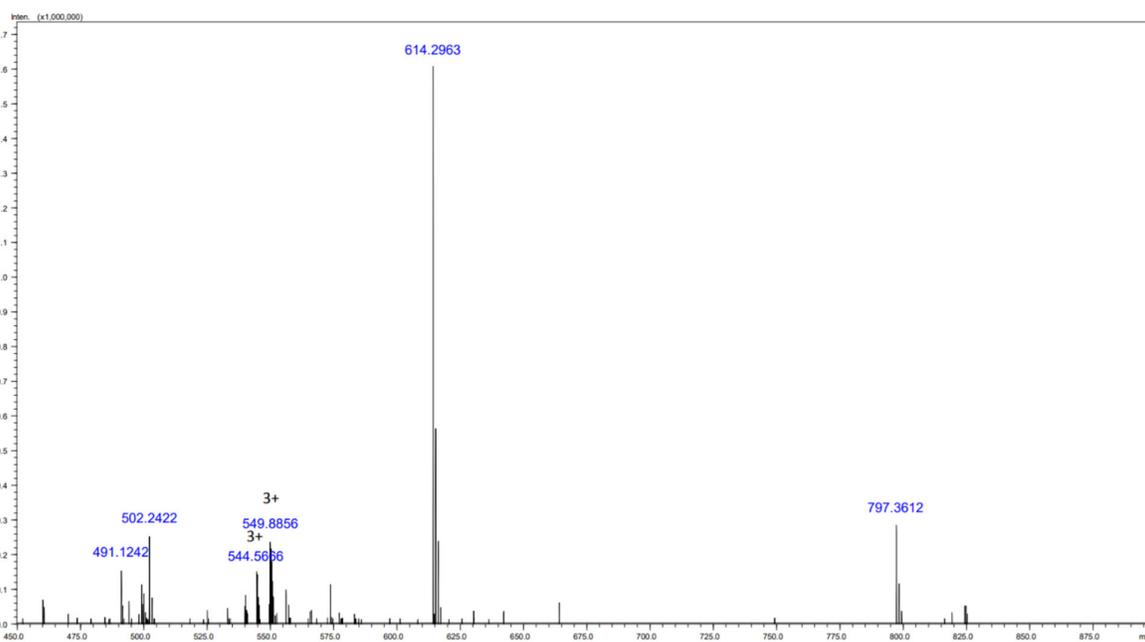


Figure S2. Mass spectrometry results for the MPC-SH synthesis, with a reaction time of 20 hours.

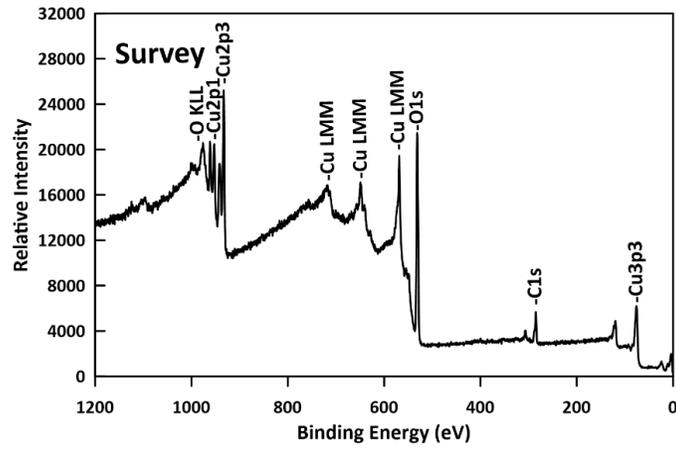


Figure S3. XPS survey spectrum for CuO NPs.

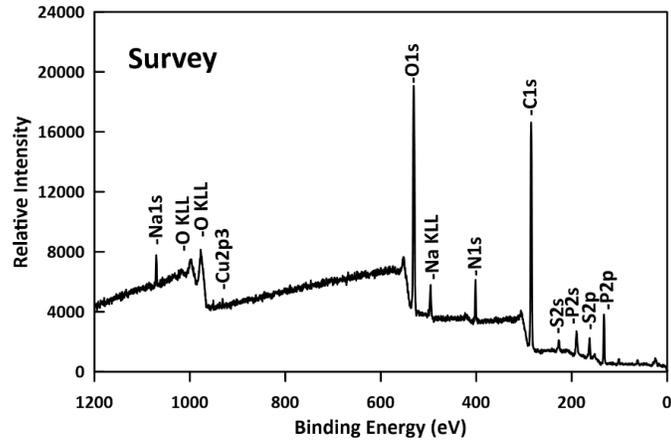


Figure S4. XPS survey spectrum for CuO/MPC NPs.

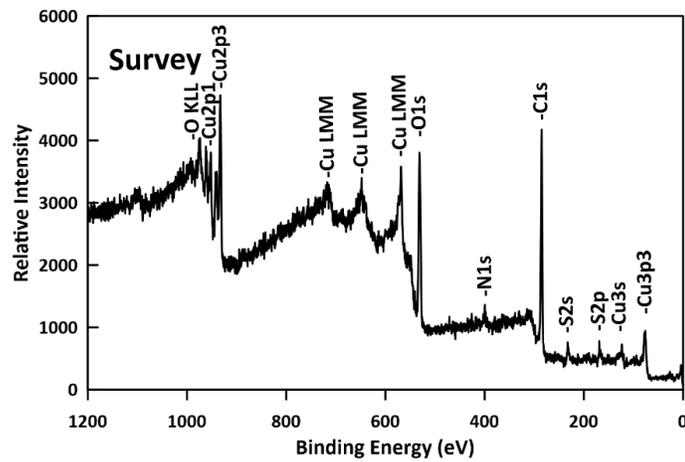


Figure S5. XPS survey spectrum for PES/PDA/MPC/CuO membrane.