

## Tailored designing of Polyurethane based fouling-tolerant nanofibrous membrane for water treatment

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### Supporting information

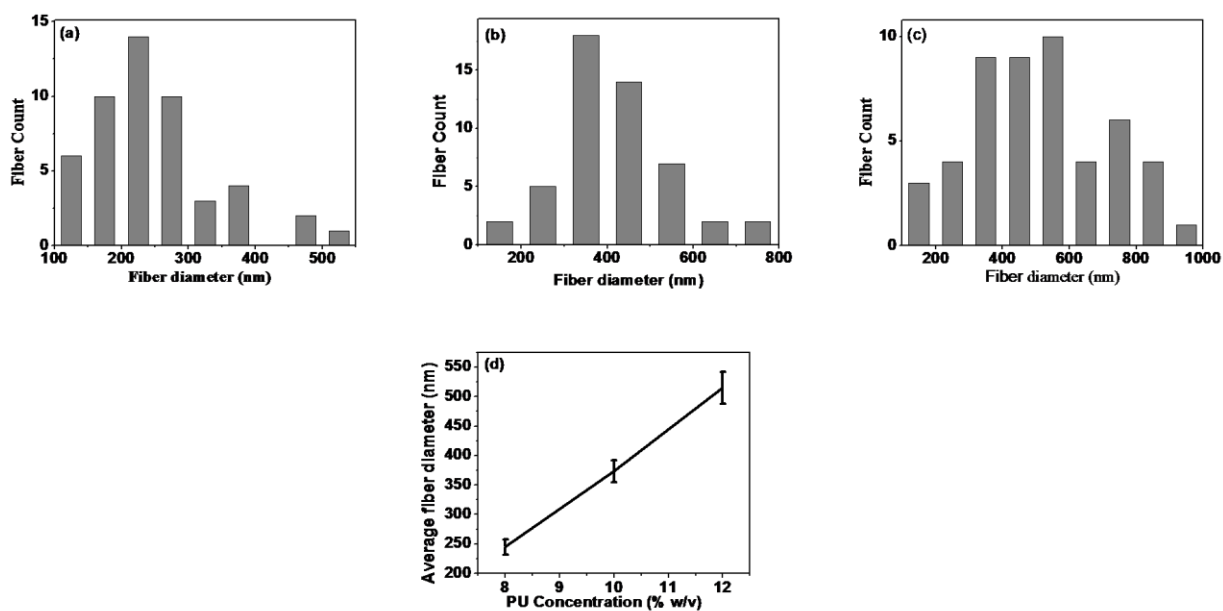


Fig. S1: Diameter histograms of electrospun PU fibers using a 50/50 v/v THF: DMF solvent and various PU Concentrations of (a) 8% w/v, (b) 10% w/v, (c) 12% w/v (d) Average fiber diameter.

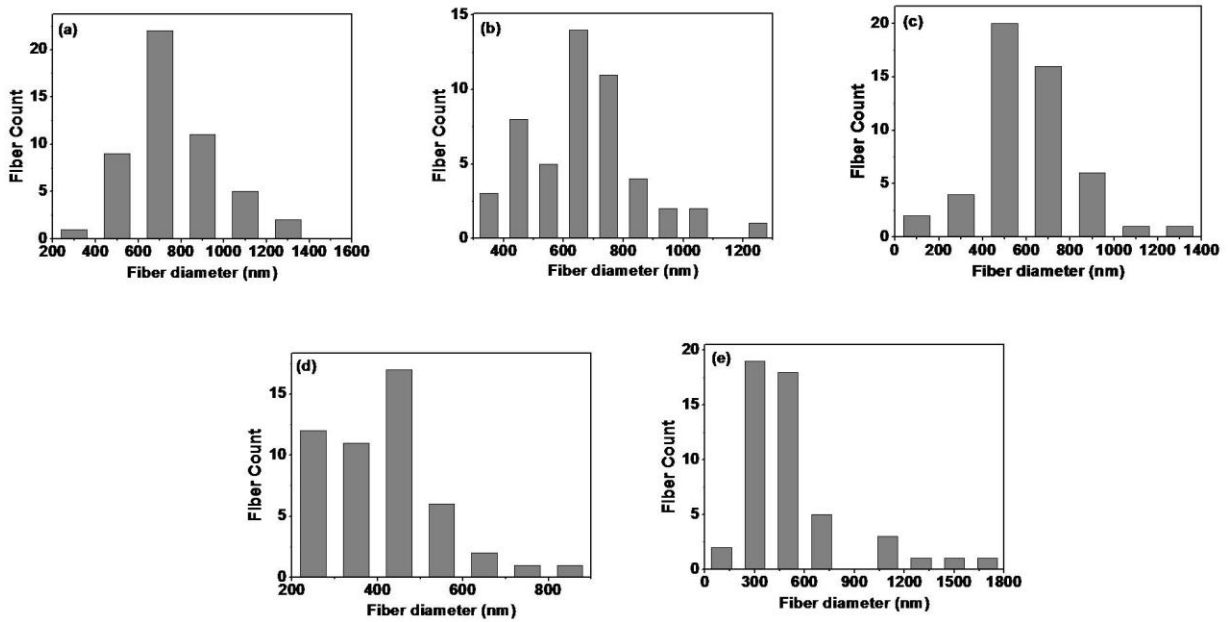


Fig.S2. Diameter Histogram of electrospun PU at 10% w/v and varying DMF:THF v/v ratios (a) 70: 30, (b) 60: 40, (c) 50: 50, (d) 40:60, (e) 30: 70

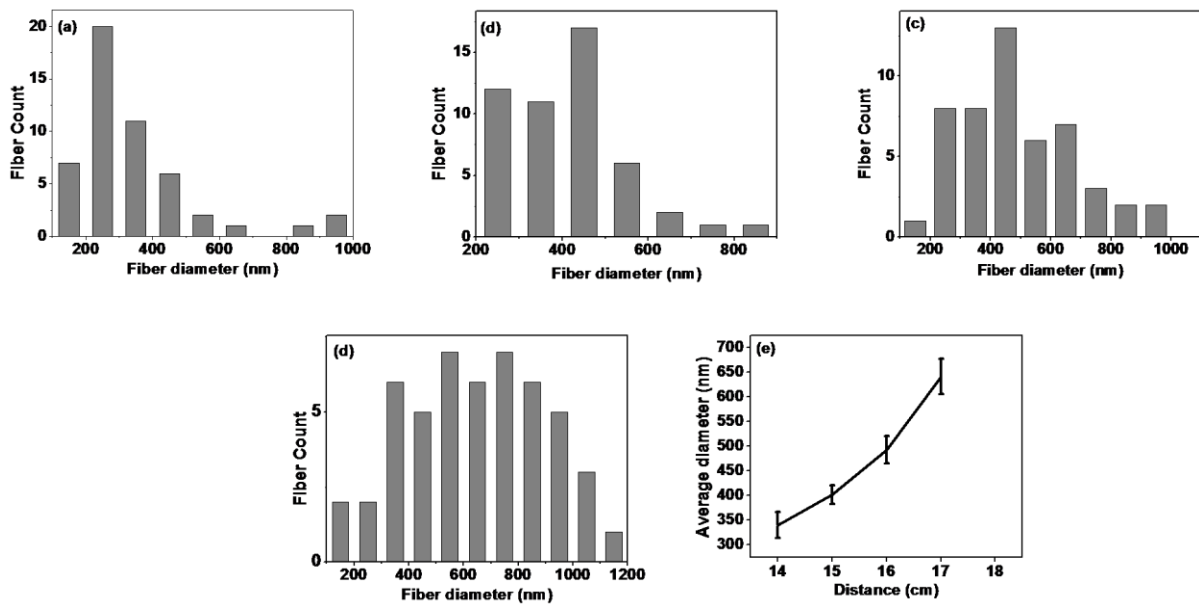


Fig.S3. Diameter Histogram of electrospun PU at applied voltage (a) 14 cm (b) 15 cm (c) 16 cm (d) 17 cm (e) Average fiber diameter.

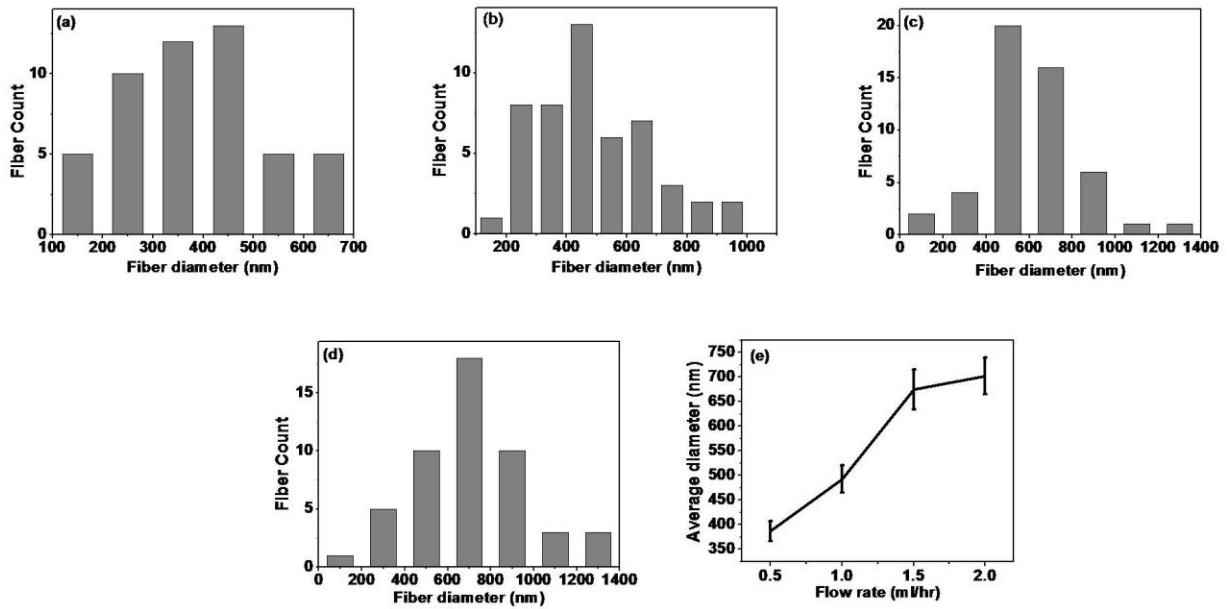


Fig.S4. Diameter Histogram of electrospun PU at applied voltage (a) 0.5 ml/hr, (b) 1 ml/hr, (c) 1.5 ml/hr, (d) 2 ml/hr, (e) Average fiber diameter

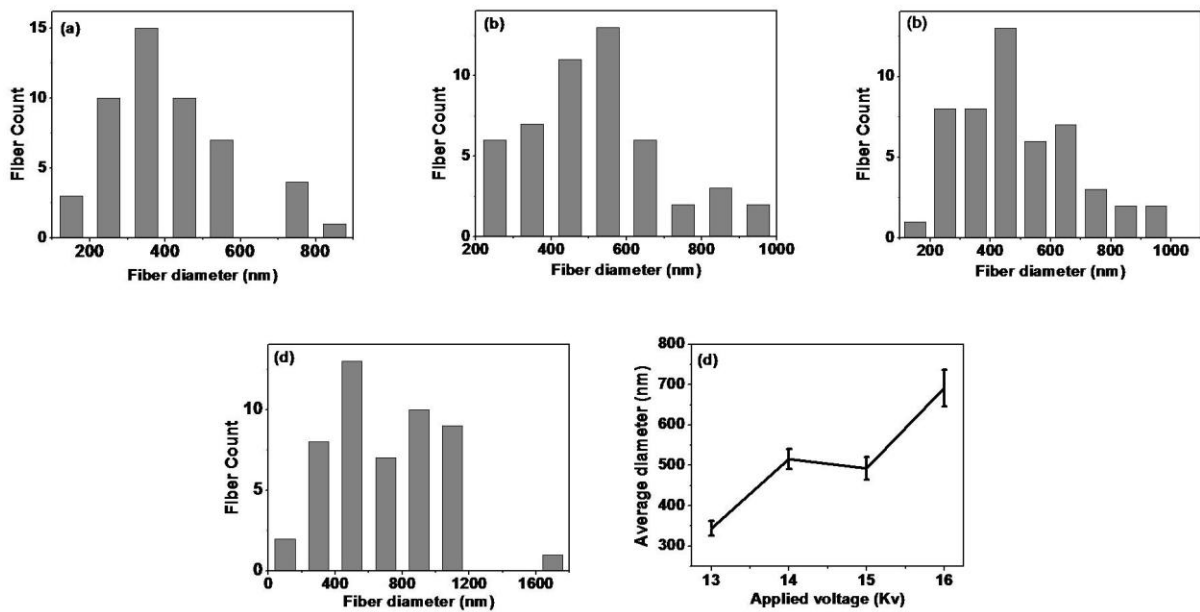


Fig. S5. Diameter histogram of 10% w/v PU electrospun membranes with various applied voltage of (a) 13 Kv, (b) 14 Kv, (c) 15 Kv (d) 16 Kv (e) Average fiber diameter

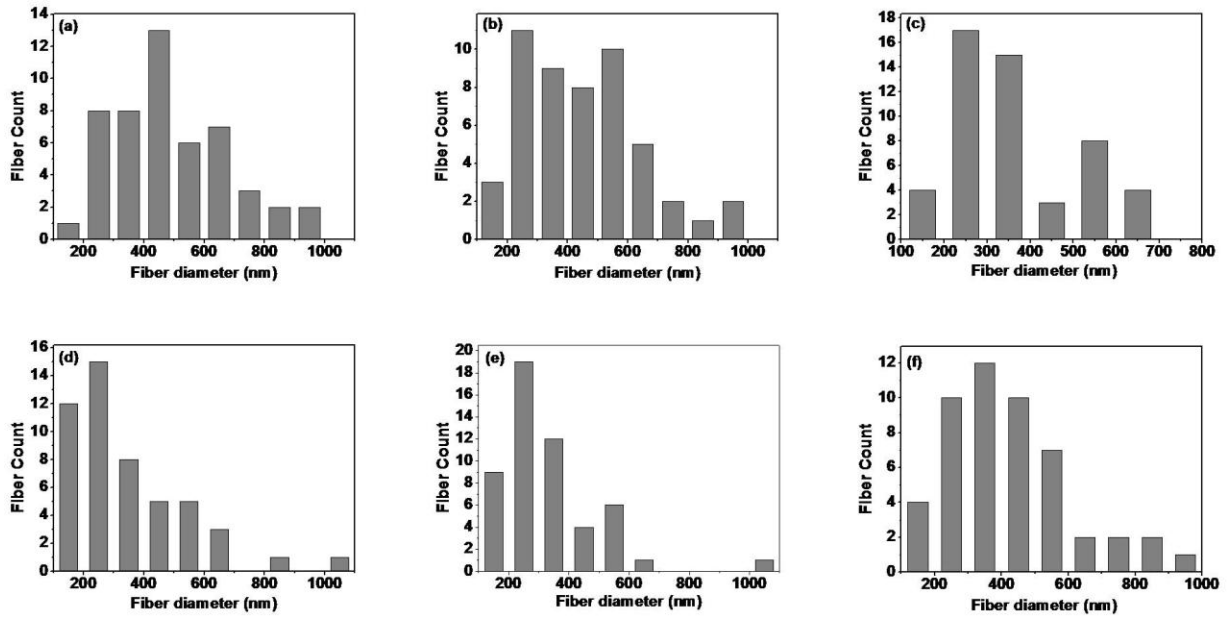


Fig. S6. Diameter histogram of electrospun PU/PVP membrane (a) PU (b) PU/5PVP (c) PU/10 PVP (d) PU/15PVP (e) PU/20PVP (f) PU/25PVP

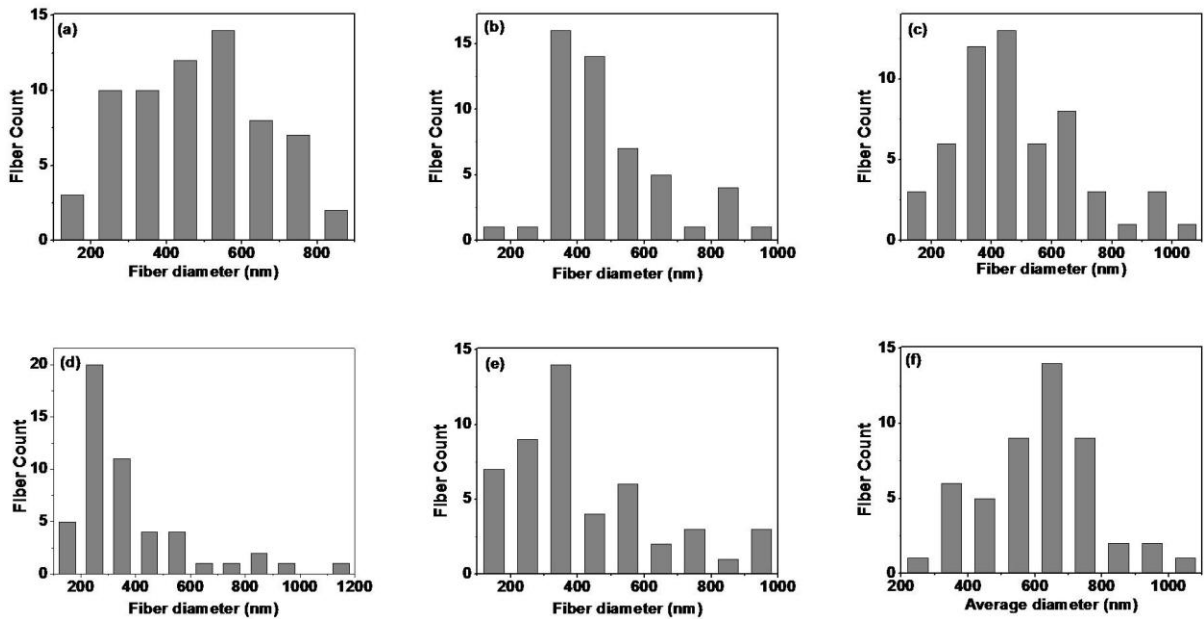


Fig. S7. Fiber diameter histogram of water treated electrospun PU/PVP sample (a) PU/0PVP (b) PU/5PVP (c) PU/10PVP (d) PU/15PVP (e) PU/20PVP (f) PU/25PVP.