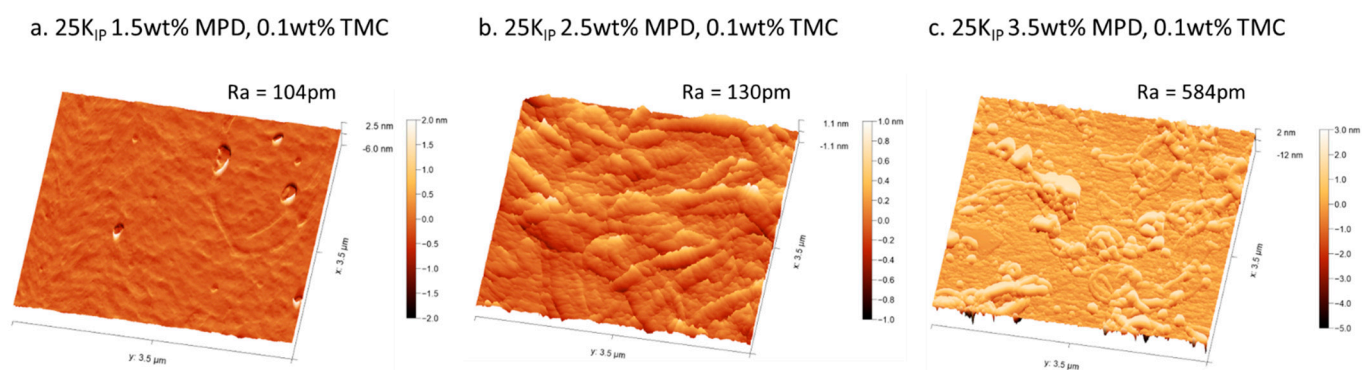


# Incorporation of an intermediate polyelectrolyte layer for improved interfacial polymerization on PAI hollow fiber membranes

## 1. Atomic force microscopy

For the evaluation of the surface roughness, atomic force microscopy (AFM) was used to capture 3D surface images of a  $3.5 \times 3.5 \mu\text{m}$  area. The AFM was operated under tapping mode in air using a Bruker Dimension Icon with a PPP-NCLR tip from Nanosensors. By analyzing the height profile of the AFM image, the average surface roughness ( $R_a$ ) of the membrane surface was determined.



**Figure S1.** 3D representation of AFM micrographs of the lumen surface of TFC hollow fiber membranes prepared with 25k supports and different concentrations of MPD and TMC. (a.) 1.5wt% MPD and 0.1wt% TMC. (b.) 2.5wt% MPD and 0.1wt% TMC. (c.) 3.5wt% MPD and 0.1wt% TMC.