

Supplementary Material

In-Situ modification of nanofiltration membranes using carbon nanotubes for water treatment

C. Vargas-Figueroa¹, L. Pino-Soto^{*1}, A. Beratto-Ramos¹, Y. Tapiero², B. L. Rivas², M.E. Berrio³,
M.F. Meléndrez³ and R. Borquez^{1*}.

¹Departamento de Ingeniería Química, Facultad de Ingeniería, Universidad de Concepción, Edmundo Larenas 219. Concepción, 4070409, Chile

²Departamento de Polímeros, Facultad de Ciencias Químicas, Universidad de Concepción, Edmundo Larenas 129. Concepción, 4070371, Chile.

³Advanced Nanocomposites Research Group (GINA). Departamento de Ingeniería en Materiales (DI-MAT), Universidad de Concepción, Edmundo Larenas 315. Concepción 4070415, Chile.

* Correspondence: luispino@udec.cl (L.P-S); rborquez@udec.cl (R.B.)

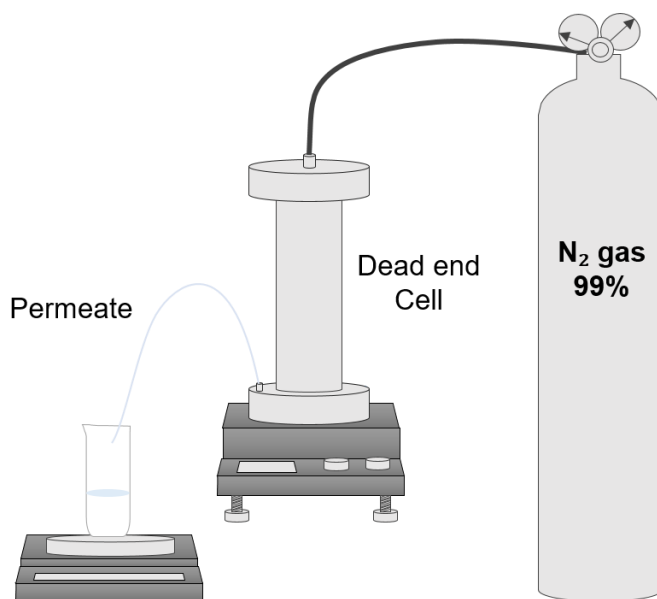


Figure S1: Filtration system used for modified membrane testing

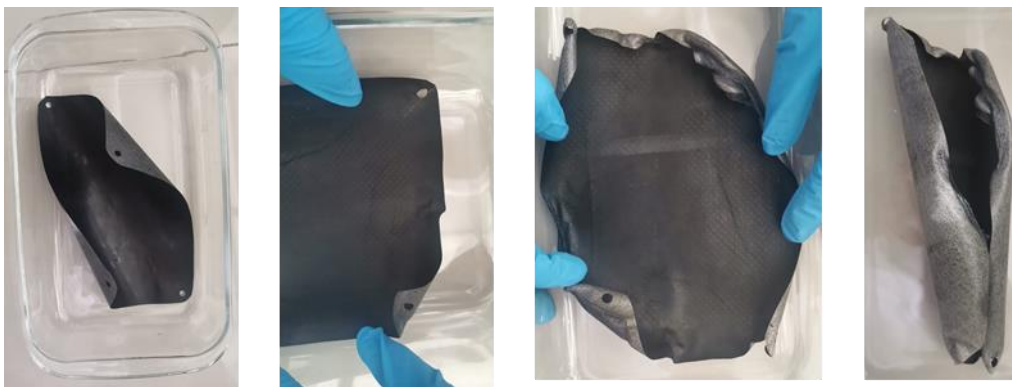


Figure S2: Images of membrane damage due to overpowering.

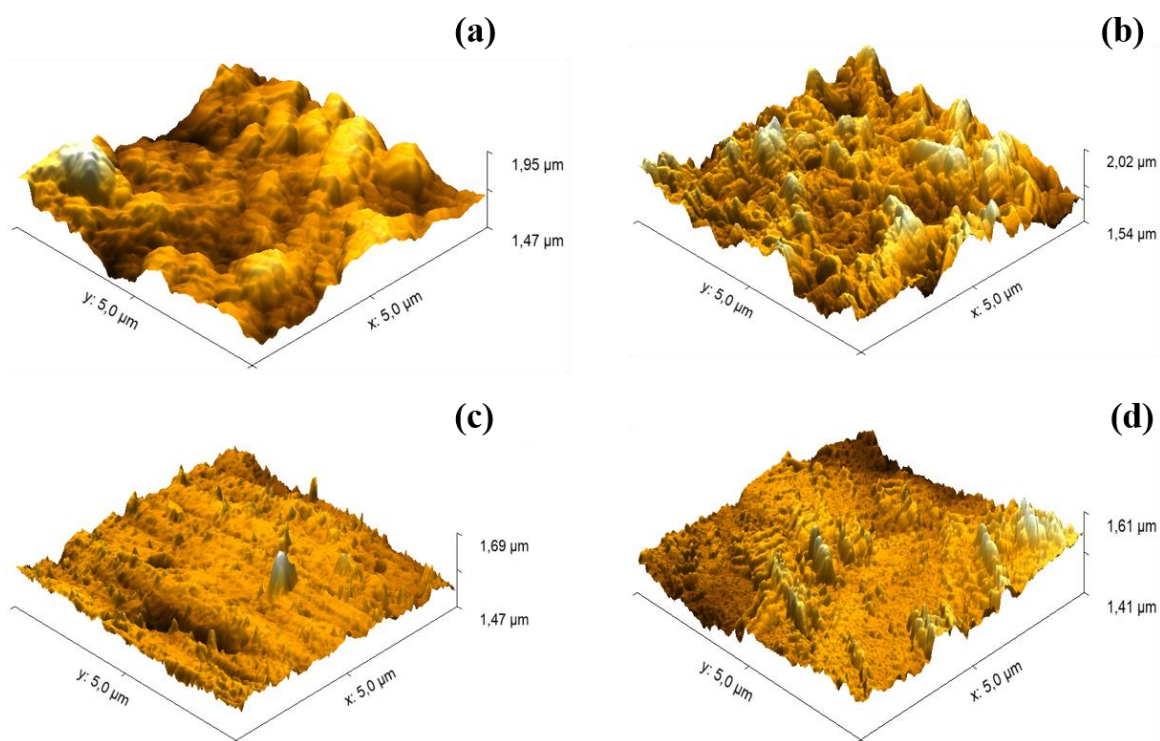


Figure S3: AFM images for (a) NF90, (b) NF270, (c) NF90-Ppy-CNTs and (d) NF270-Ppy-CNTs.

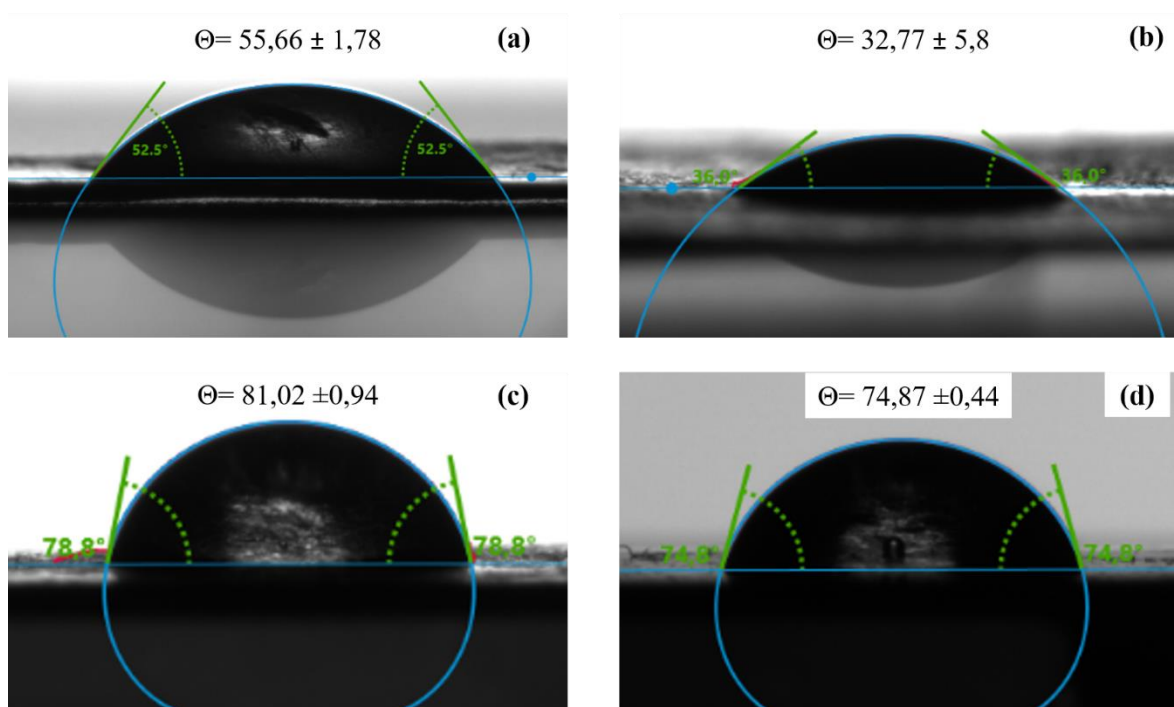


Figure S4: Contact angle images for (a) NF90, (b) NF270, (c) NF90-Ppy-CNTs and (d) NF270-Ppy-CNTs.