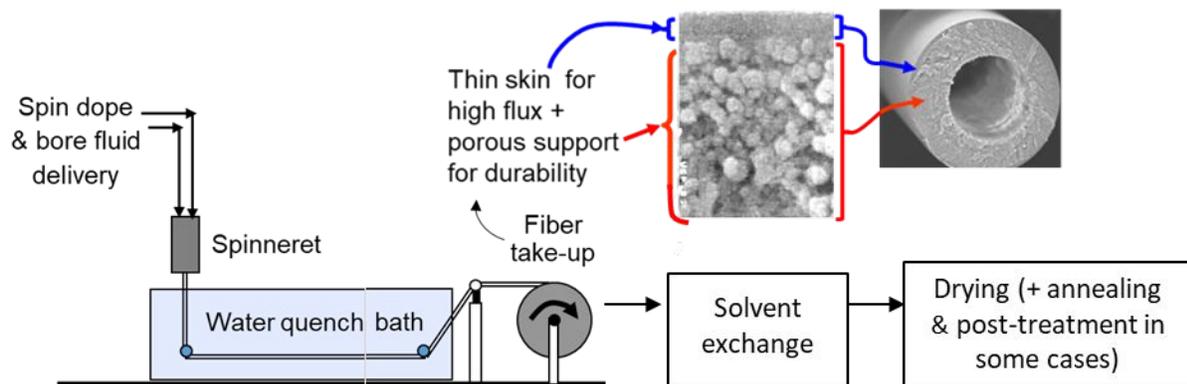


## Supporting Information

### How to Get the Best Gas Separation Membranes from State-of-the-Art Glassy Polymers

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Figure S-1: Schematic illustration of integrated state of the art hollow fiber gas separation membrane formation process. SEM reproduced with permission from ref 1. Copyright © 2003 John Wiley and Sons.



Asymmetric separation membrane morphologies such as that shown here (1) created during membrane formation amplify tendencies for (i) plasticization; (ii) antiplasticization; (iii) dual mode, and (iv) free volume distribution vectoring—especially for high free volume materials.

#### Reference:

1. Carruthers, S. B.; Ramos, G. L.; Koros, W. J. Morphology of integral-skin layers in hollow-fiber gas-separation membranes. *J Appl Polym Sci* **2003**, 90.

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