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Supporting information:

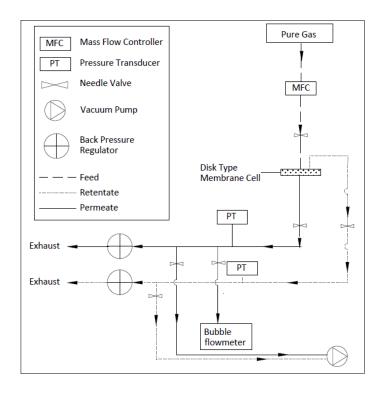


Fig. S1 Schematic of the gas permeation setup.

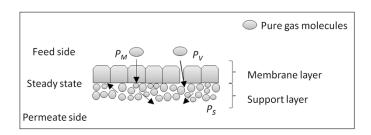


Fig. S2 Illustration of single gas permeation through ZIF-8 membrane layer, intercrystalline pores and support layer.