

Supporting information:

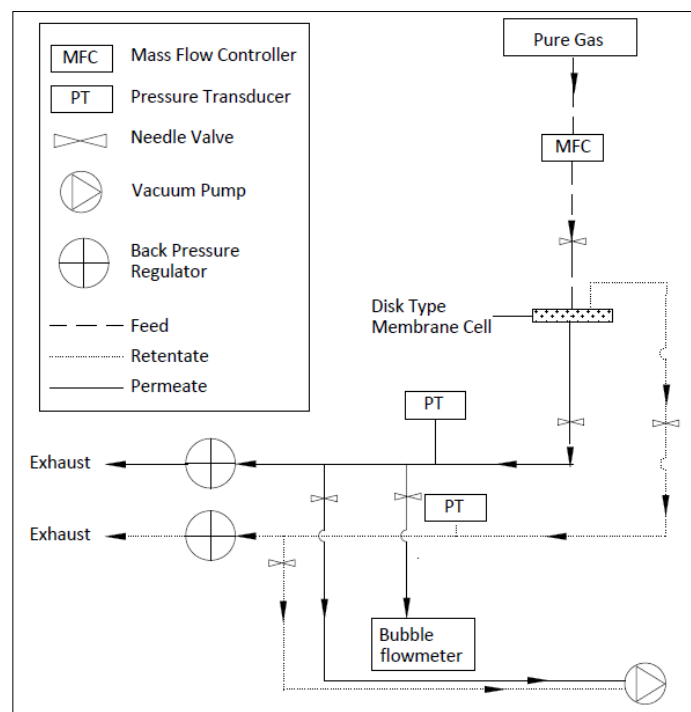


Fig. S1 Schematic of the gas permeation setup.

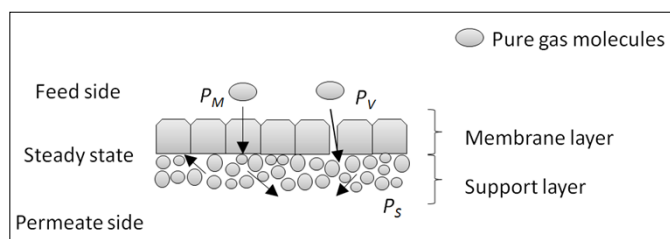


Fig. S2 Illustration of single gas permeation through ZIF-8 membrane layer, intercrystalline pores and support layer.