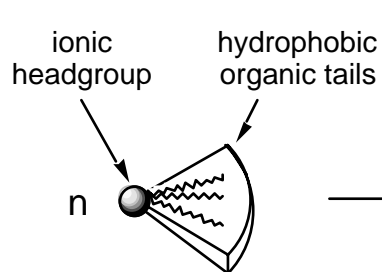
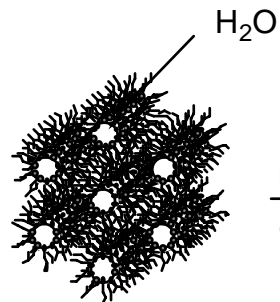
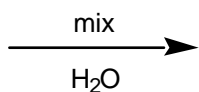


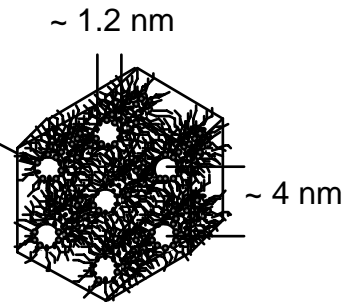
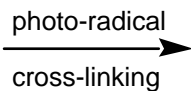
Development of Lyotropic Liquid Crystal NF Membranes



"taper-shaped"
LLC monomer

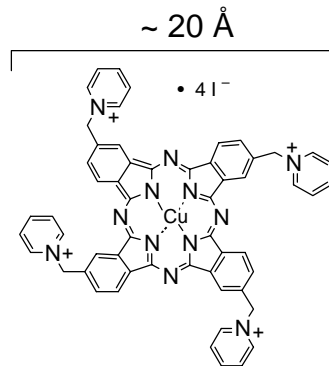
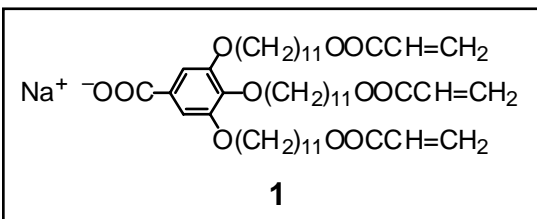
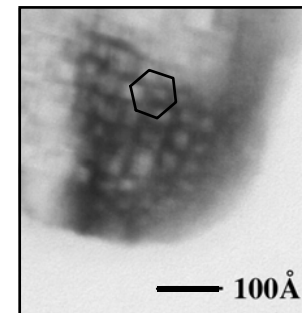


H_{II} phase



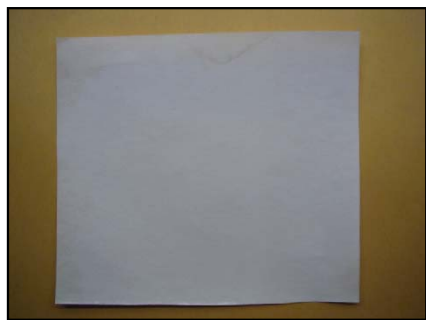
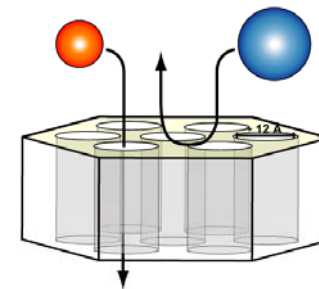
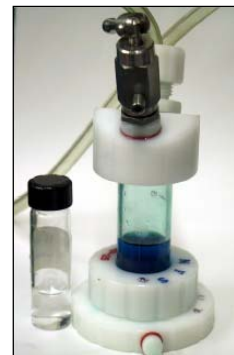
nanostructured
polymer network

TEM photo of cross-linked 1



Alcian Blue, py variant
(larger than the nanopores)

Goal: molecular size-
selective nanofiltration



PAN film coated with H_{II} phase of 1