

Supporting information

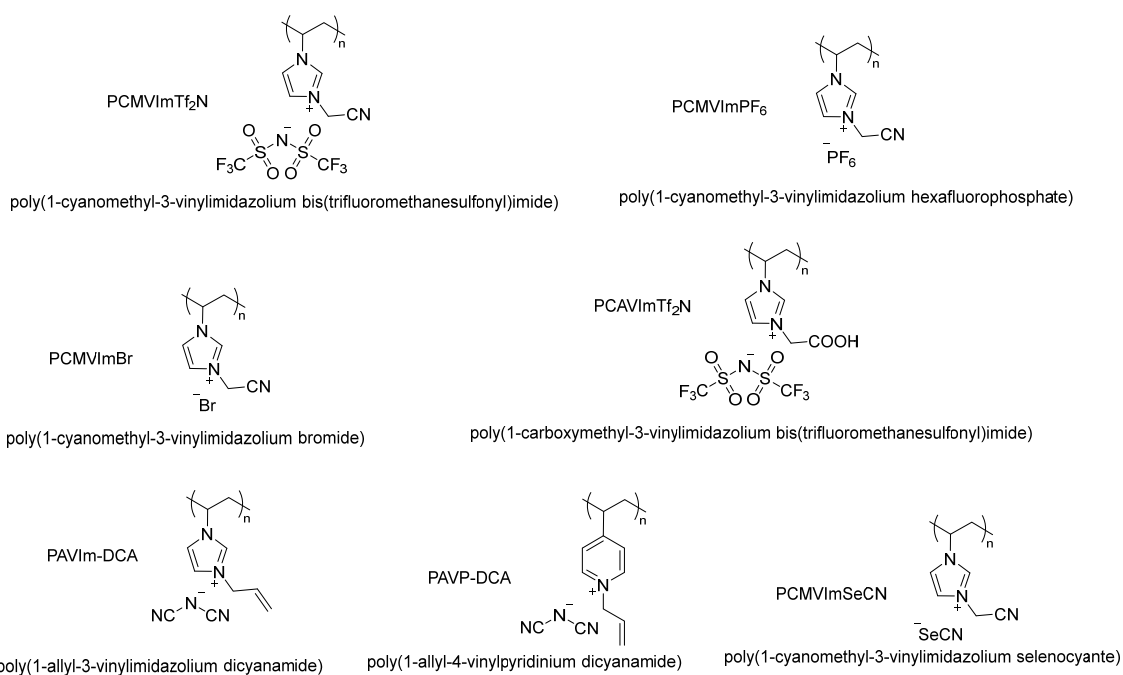


Figure S1. Structural information of PILs used for heteroatom doped porous carbon membranes.

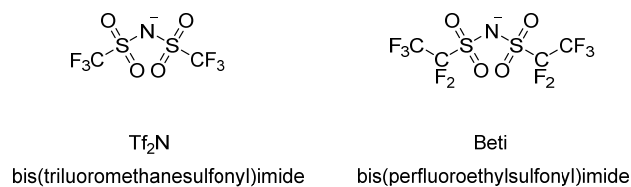


Figure S2. Chemical structures of the two anions Tf₂N and Beti.



Figure S3. Chemical structures of ILs used for the construction of micro/mesoporosity.