

Supporting Information

Polybenzimidazole based film forming polymeric ionic liquids: Synthesis and effects of cation-anion variation on their physical properties

Rupesh S. Bhavsar, Santosh C. Kumbharkar, Anita S. Rewar and Ulhas K. Kharul*

Polymer Science and Engineering Division, CSIR-National Chemical Laboratory, Dr. Homi Bhabha Road, Pune- 411008, INDIA. Tel: +91-20-25902180, Fax: +91-20-25902618

Email: uk.kharul@ncl.res.in

Film forming ability of PILs

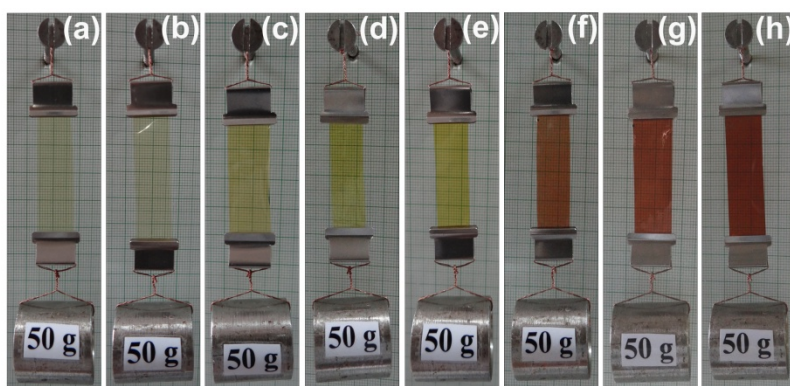


Fig. S1 Photograph of film forming PILs (a: [TMPBI-I][Tf₂N]; b: [TMPBI-BuI][Tf₂N]; c: [TMPBI-BuI][TFAc]; d: [TMPBI-BuI][HFB]; e: [TMPBI-BuI][MS]; f: [TMPBI-BuI][TFMS], g: [TMPBI-BuI][PTS] h: [TMPBI-BuI][NO₃])

This figure shows photograph of PILs films those are not covered in the Fig. 5 of the main manuscript.

UV-VIS spectra of PILs

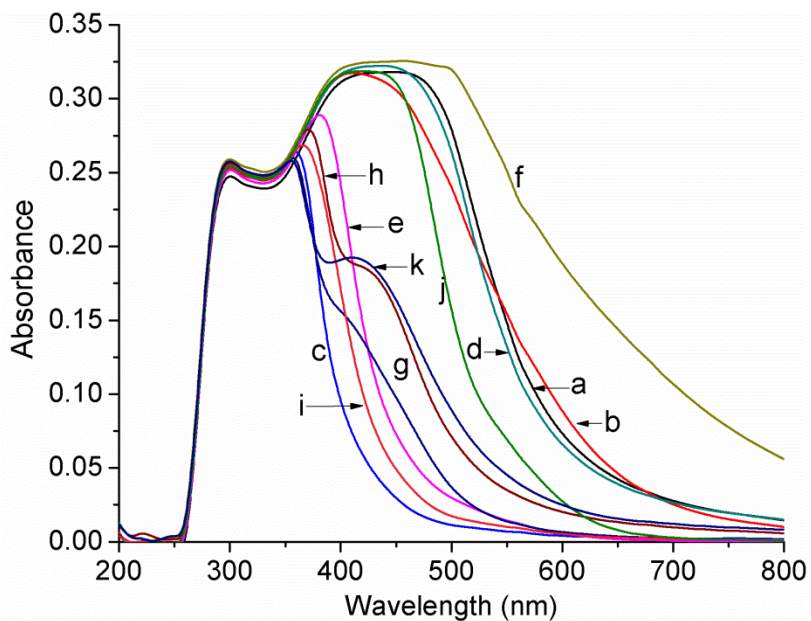


Fig. S2 UV-vis spectra of PILs possessing common polycation (a: [TMPBI-BuI][Ac]; b: [TMPBI-BuI][Bz]; c: [TMPBI-BuI][HFB]; d: [TMPBI-BuI][TFAc]; e: [TMPBI-BuI][BF₄]; f: [TMPBI-BuI][NO₃]; g: [TMPBI-BuI][MS]; h: [TMPBI-BuI][PTS]; i: [TMPBI-BuI][Tf₂N]; j: [TMPBI-BuI][I]; k: [TMPBI-BuI][TFMS]).