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Design and Synthesis of Functional Ionic Liquids Based on Pyrrolidinium Cations Bearing Alkyl Nitrile Moieties

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Fig. S1. ¹HNMR spectra of CMMPI, CMMPPF₆ and CMMPTFSI, respectively.



Fig. S2. ¹HNMR spectra of CEMPI, CEMPPF₆ and CEMPTFSI, respectively.



Fig. S3. ¹HNMR spectra of CPMPI, CPMPPF₆ and CPMPTFSI, respectively.



Fig. S4. All of the photographs of synthesized compounds in this work: (a) CMMPI, CEMPI and CPMPI, (b) CMMPPF₆, CEMPF₆ and CPMPPF₆, and (c) CMMPTFSI, CEMPTFSI and CPMPTFSI, respectively.



Fig. S5 FTIR spectra of (a) CMMPI, CEMPI and CPMPI; (b) CMMPPF₆, CEMPPF₆ and CPMPPF₆; (c) CMMPTFSI, CEMPTFSI and CPMPTFSI, respectively.



Fig. S6 TGA curves of (a) CMMPI, CMMPPF₆ and CMMPTFSI; (b) CEMPI, CEMPPF₆ and CEMPTFSI, respectively.