SUPPLEMENTARY INFORMATION:

Physicochemical Properties Determined by $\Delta pK_a$ for Protic Ionic Liquids Based on an Organic Super-strong base with Various Brønsted Acids

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Figure S1. $^1$H Chemical shift of N-H proton in the [DBU]-based PILs as a function of $\Delta pK_a$ of the constituents at two different temperatures. NMR spectra were recorded by using double tube (inner: PIL, outer: DMSO as solvent). Sample was taken inside an Ar atmosphere glove box.
Figure S2. DSC curves of [DBU]-based PILs. DSC thermograms were recorded during reheating steps. Sample was sealed inside an Al pan under an Ar atmosphere in the glove box.
Figure S3. Time-dependent isothermal TG for [DBU][\((\text{CF}_3\text{SO}_2)\text{N}\)] at two different temperatures for 5 h under an N\(_2\) atmosphere. Dash line in the plots is a guide for eyes.