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Electronic supplementary information

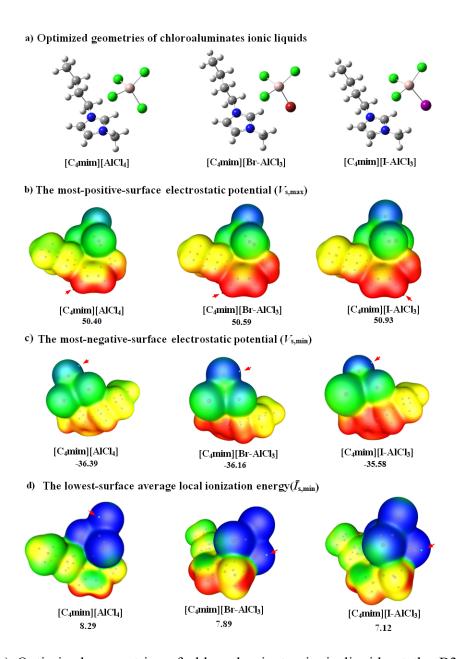


Fig. S1 (a) Optimized geometries of chloroaluminates ionic liquids at the B3LYP/aug-cc-pvdz level; (b) electrostatic potential at the 0.001 au contour of the electron density and its maximum $V_{\rm s,max}$ on the ILs; (c) electrostatic potential at the 0.001 au contour of the electron density and its minimum $V_{\rm s,min}$ on the ILs; (d) average local ionization energy at the 0.001 au contour of the electron density and its minimum $\bar{I}_{\rm s,min}$ on the ILs. Color ranges for electrostatic potential, in kcal/mol: blue < -30.0 < green < -4 < yellow < 20 < red. Color ranges for average local ionization energy, in eV: blue < 10 < green < 12 < yellow < 14 < red. The positions of $V_{\rm s,m}$ and $\bar{I}_{\rm s,min}$ are marked by the red arrow on the surface.

$$+O = C + \frac{O}{C} + \frac{O}{$$

Fig. S2 The proposed mechanism for the degradation of PET catalyzed by [amim][ZnCl₃].