Figure S1. Impedance plots of (a) the pure Li₆PS₅Cl, (b-f) the (1-x) Li₆PS₅Cl – x CaS (x = 0.01, 0.02, 0.03, 0.05, and 0.1) and (g) the 0.98 Li₆PS₅Cl – 0.02 YCl₃ samples.
Figure S2. FE-SEM and EDX images of 0.98 Li$_6$PS$_5$Cl – 0.02 AlCl$_3$. 
Figure S3. (a) TEM image, (b) the HCDF image, (c) selected area electron diffraction patterns and (d) the corresponding intensity profiles of 0.9 Li$_6$PS$_5$Cl – 0.1 YCl$_3$ with the XRD patterns of Li$_6$PS$_5$Cl (ICSD #259205).