



Fig. S1 Temperature dependence of the conductivities of the 70Li₂S-30P₂S₅ glass and glass ceramic. Conductivities of the samples including those listed in Table 1 and the glass sample before the crystallisation were measured at various temperatures and are plotted as a function of reciprocal absolute temperature in this figure. Electric conductivities at 25 °C and activation energies for conduction were calculated by fitting Arrhenius equation to the conductivity data and are plotted against the degree of crystallisation in Fig. 8 in the main text.