



FIGURE 2S. From top to bottom: evolution of cell edges, β angle and $a\sin\beta$ at 298 K as a function of the average cation size at the M1-site of $\text{LiMe}^{3+}\text{Si}_2\text{O}_6$ clinopyroxenes and $(\text{Li}_{0.85}\text{Mg}_{0.09}\text{Fe}_{0.06}^{2+})(\text{Fe}_{0.85}^{3+}\text{Mg}_{0.15})\text{Si}_2\text{O}_6$; filled and open symbols indicate C2/c and P2₁/c clinopyroxenes, respectively. Symbols are those of Fig. 7. The relative variations (%) are calculated as: (max-min)/max.