



Figure OM1: (a) [001] projection of the apatite structure differentiating Ca(1) (red) and Ca(2) (orange) cation sites (image modified after Hughes and Rakovan, 2015). Unit cell indicated by heavy black line. (b) 9-coordinated or $^{[VI+III]}$ Ca(1) site, simplified 6-coordinated Ca(1) model and ball-and-stick model. (c) 7-coordinated or $^{[VII]}$ Ca(2) site, simplified 6-coordinated Ca(2) model and ball-and-stick model.