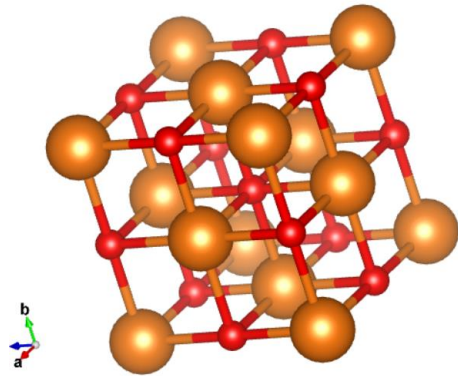


1.

(a)  $a=b=c=4.2112\text{\AA}$  ;  $\alpha = \beta = \gamma = 90^\circ$

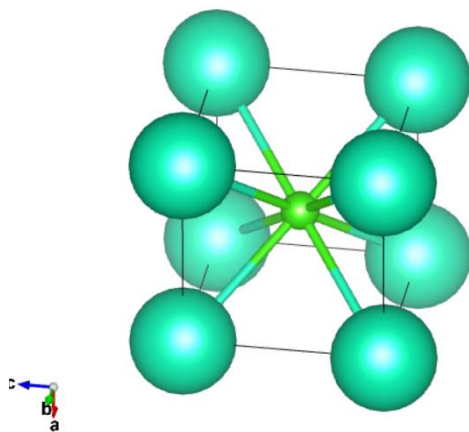
(b) Mg[(0,0,0); (0,0.5,0.5); (0,0.5,0); (0.5,0,0.5); (0.5,0.5,0)]  
 O[(0,0,0.5); (0,0.5,0); (0.5,0.5,0.5); (0.5,0,0)]



2.

(a)  $a=b=c=4.123\text{\AA}$  ;  $\alpha = \beta = \gamma = 90^\circ$

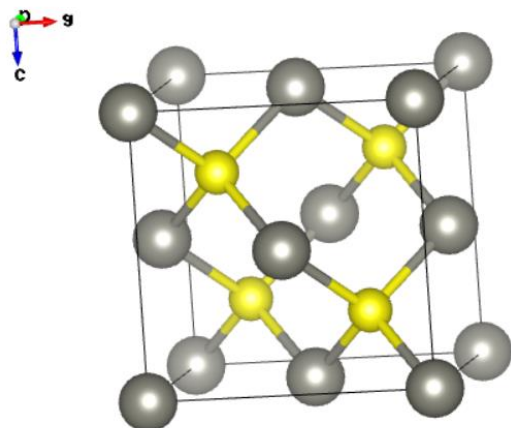
(b) Cs(0,0,0); Cl(0.5,0.5,0.5)



3.

(a)  $a=b=c=5.4093\text{\AA}$  ;  $\alpha = \beta = \gamma = 90^\circ$

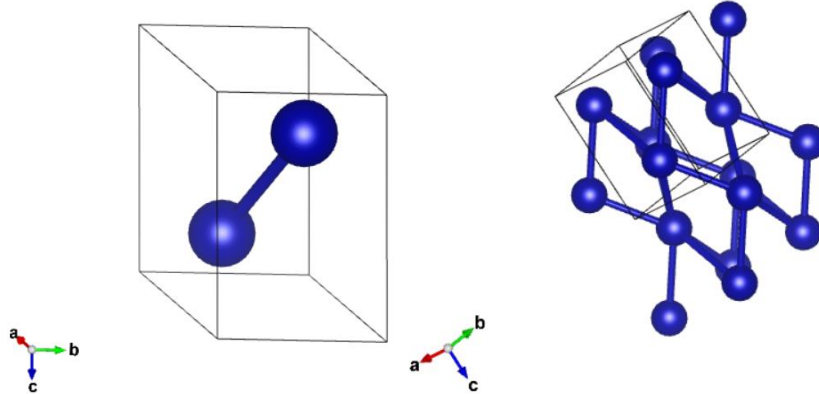
(b) Zn(0,0,0) ; S(0.25,0.25,0.25)



4.

(a)  $a=b=2.51\text{\AA}$ ;  $c=4.07\text{\AA}$ ;  $\alpha=\beta=90^\circ$ ;  $\gamma=120^\circ$

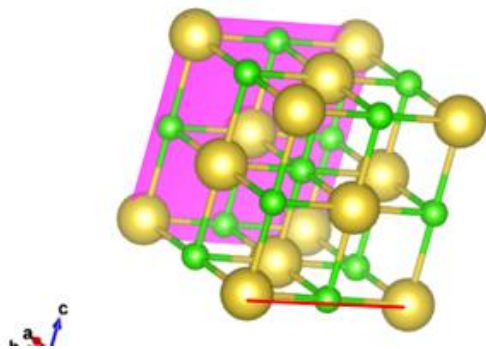
(b) Co(0.3333,0.6667,0.25); (0.6667,0.3333,0.75)



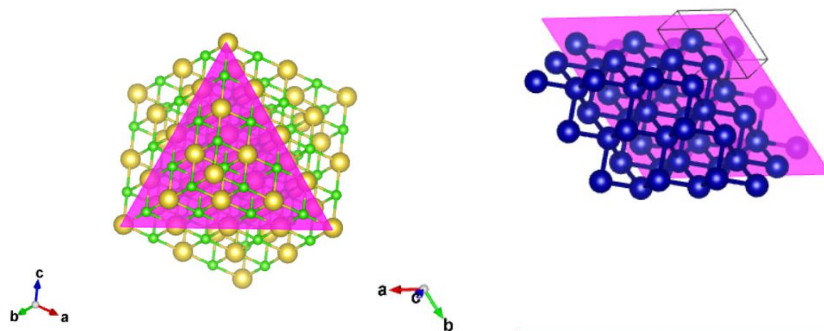
5.

(a)  $a=b=c=5.63\text{\AA}$ ;  $\alpha=\beta=\gamma=90^\circ$

(b) Na(0,0,0); Cl(0,0,0.5)



6.



1. 皆屬於最密堆積
2. 皆有高達 74%體積
3. 前者(fcc)為 A,B,C,A,B....;後者(hcp)為 A,B,A,B...