

Fig. A.1

Stratigraphic cross-sections in the mantle section of the Nakhl, Sumail and Wadi Tayin massifs

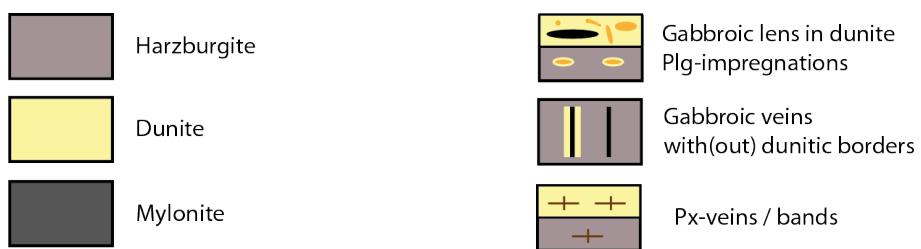
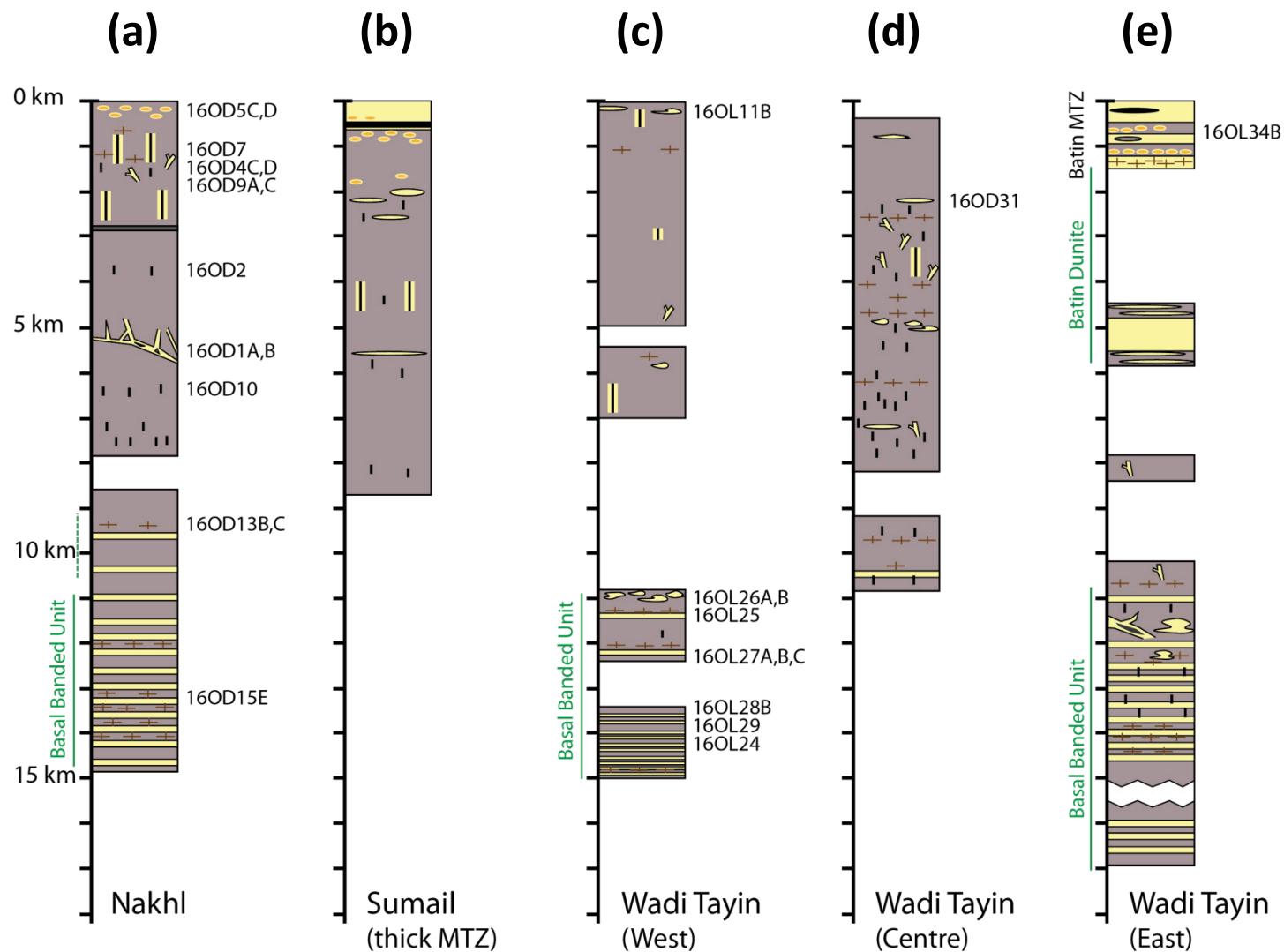
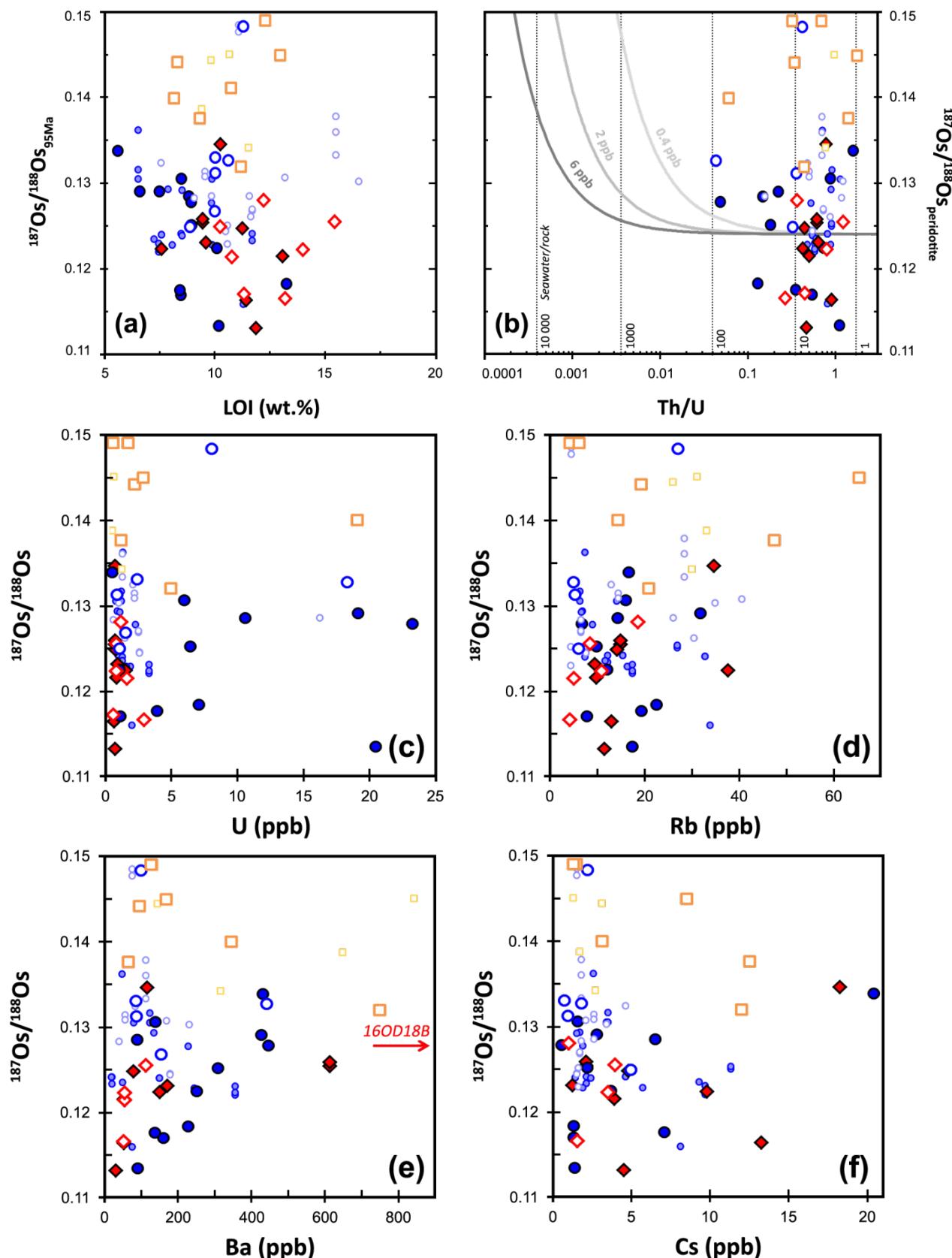


Fig. A.2

Os isotopes vs. seawater contamination tracers

Highly mobile elements vs. $^{187}\text{Os}/^{188}\text{Os}$



This study	Main mantle section (MMS) peridotites	Basal mantle section peridotites	Literature data
MTZ peridotites Dunite	Main mantle section (MMS) peridotites Harzburgite Dunite	Basal mantle section peridotites Harzburgite Dunite	Literature data MTZ Dunite MMS Harzburgite MMS Dunite

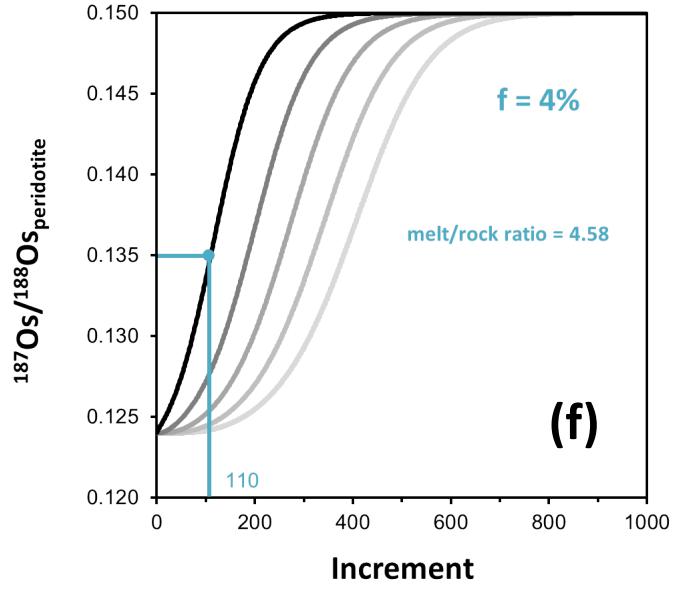
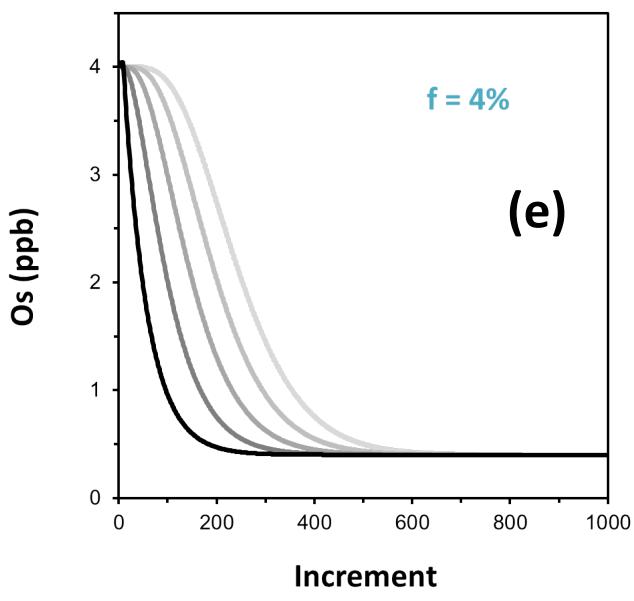
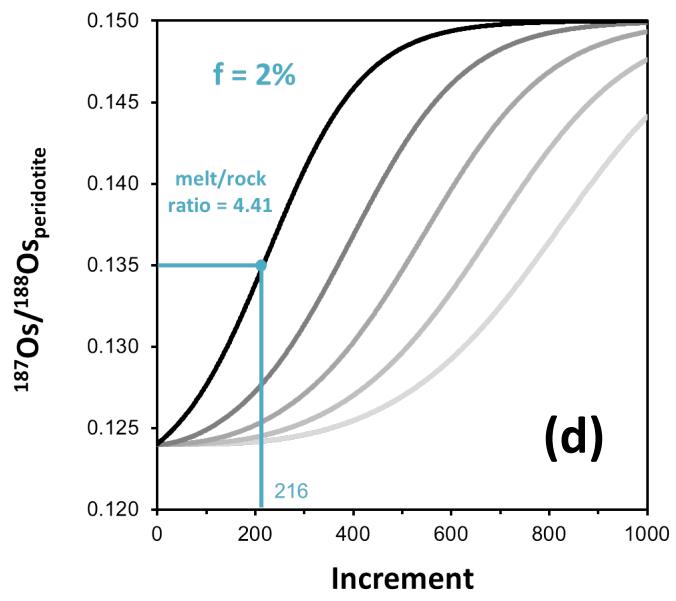
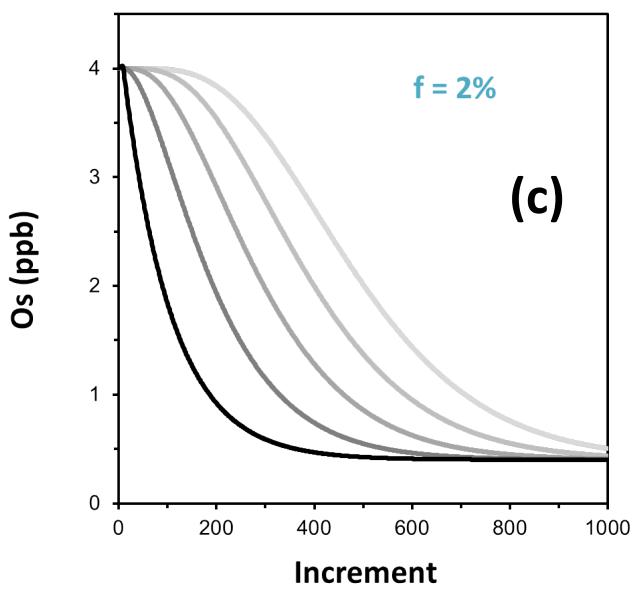
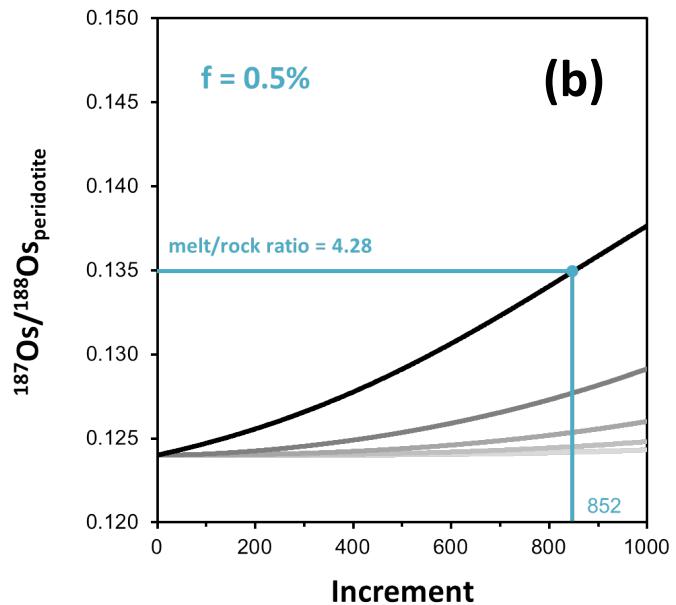
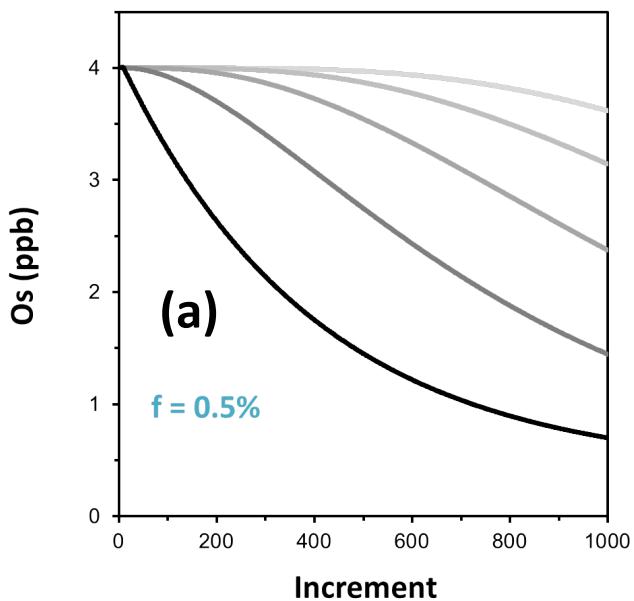
Fig. A.3**Parameter variation in the melt percolation model*****Porosity / instantaneous melt fraction (f)***

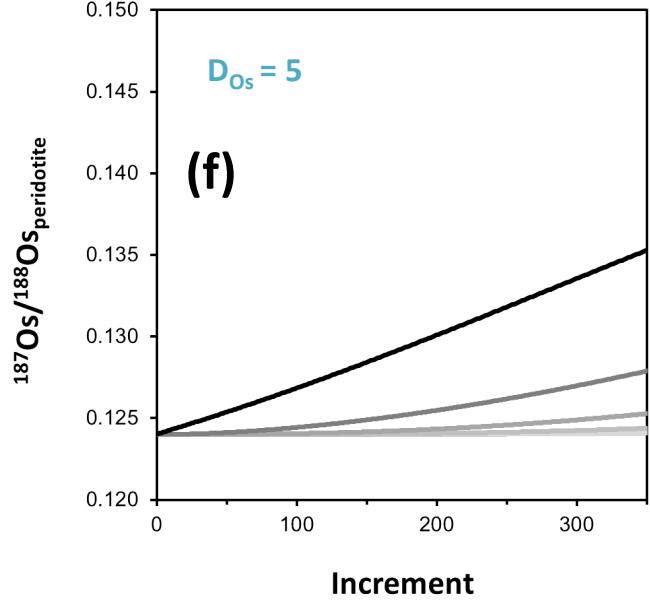
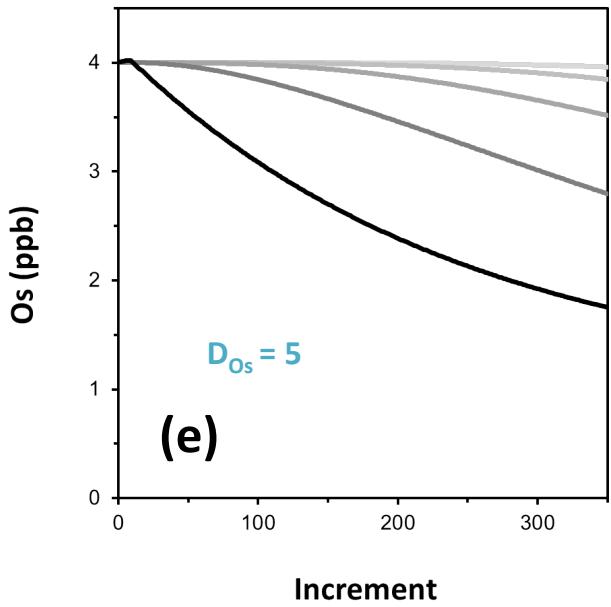
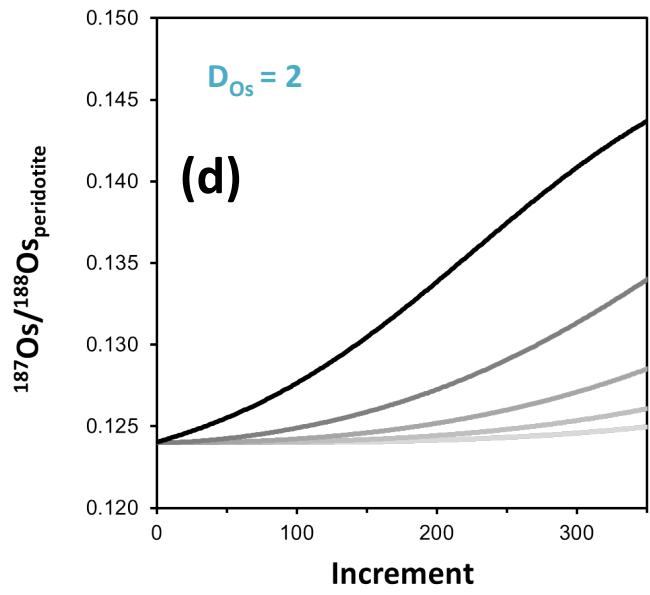
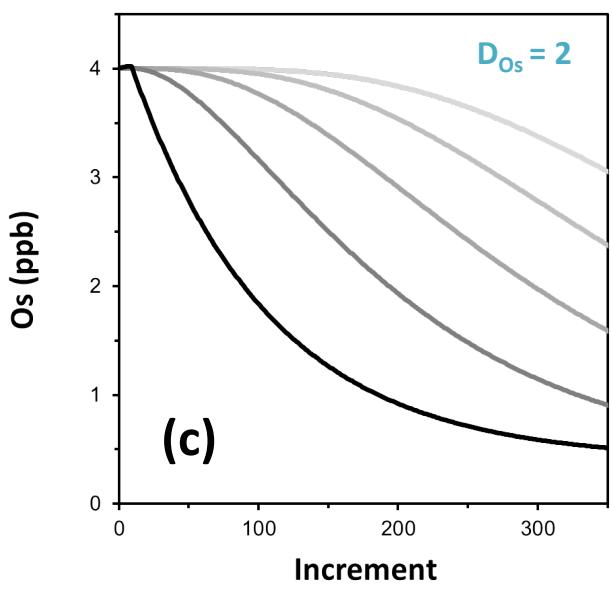
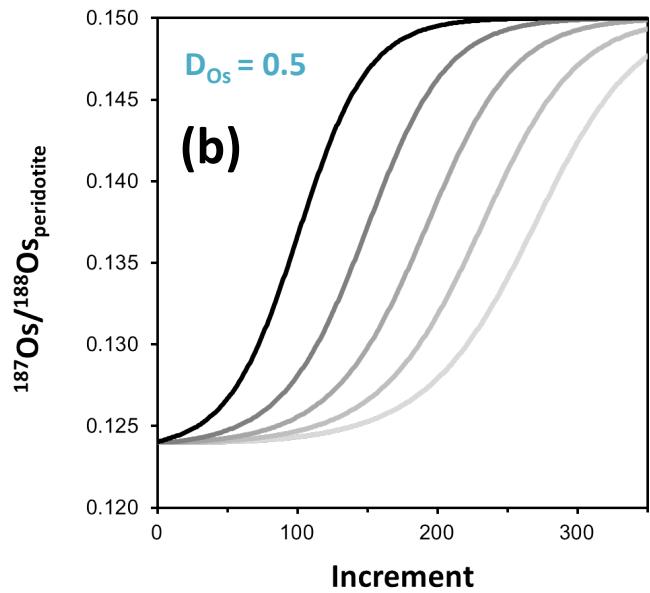
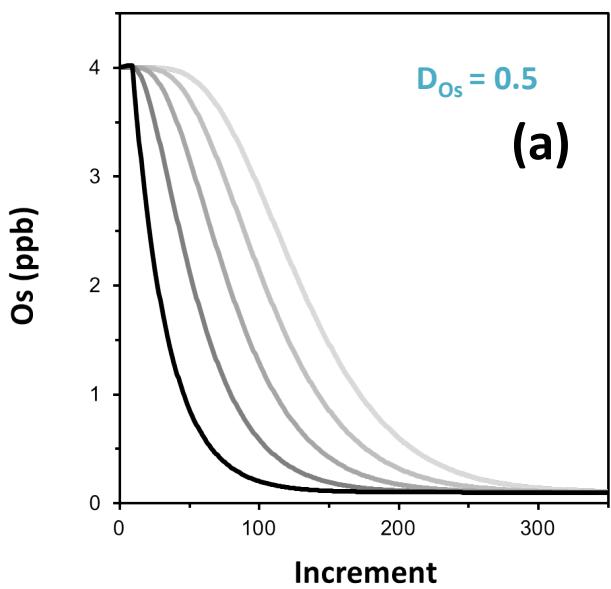
Fig. A.4**Parameter variation in the melt percolation model*****Os bulk partition coefficient for dunite (D_{Os})***

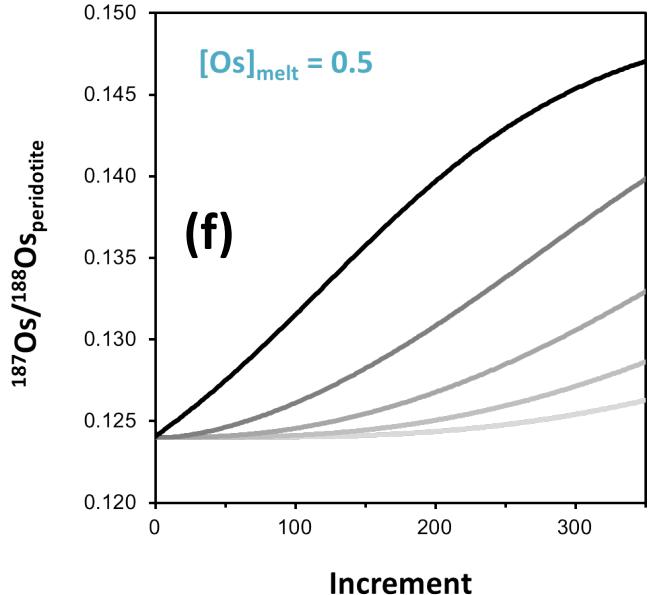
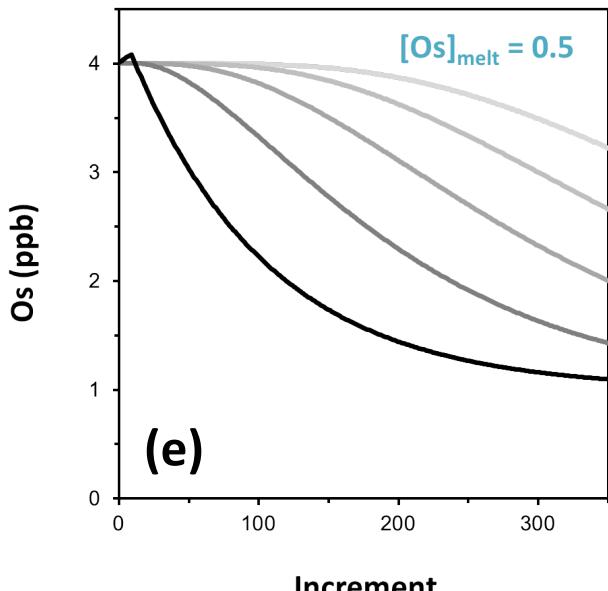
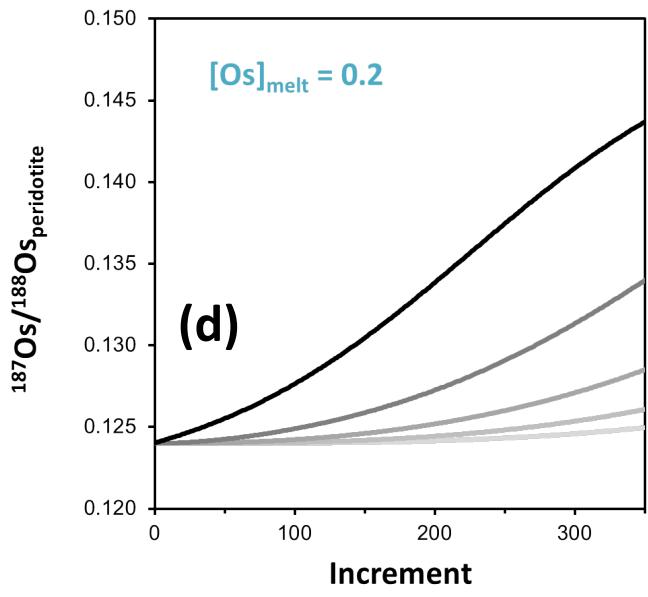
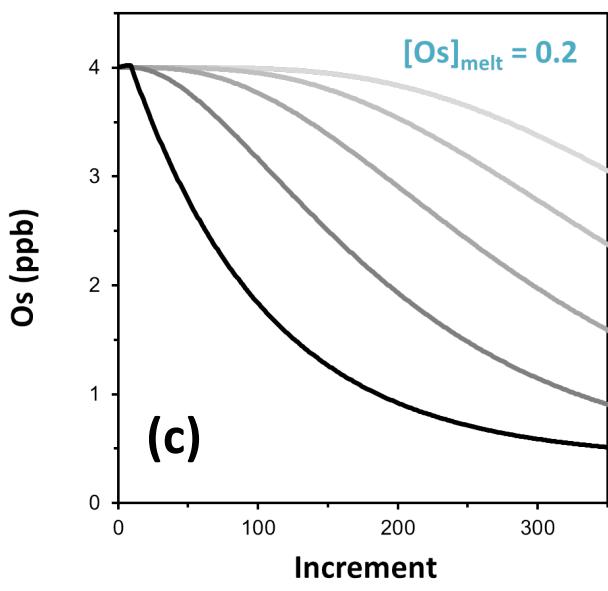
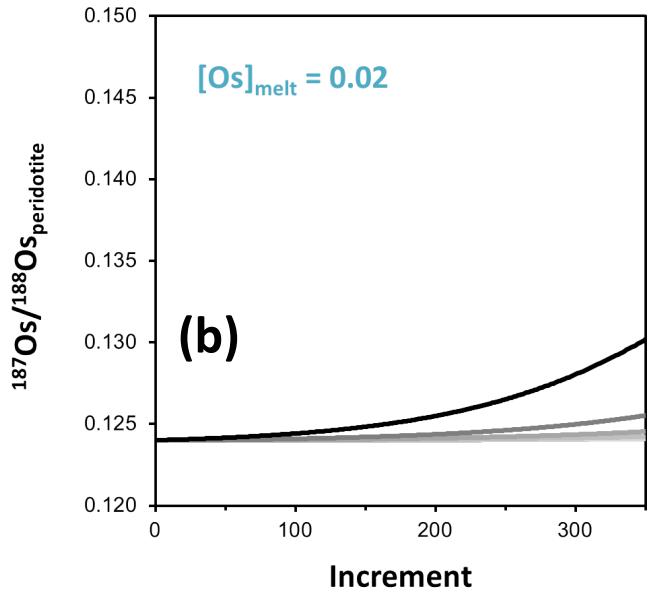
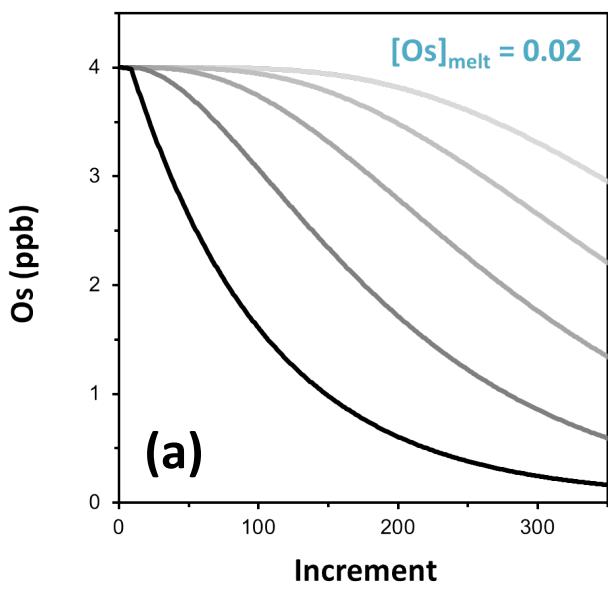
Fig. A.5**Parameter variation in the melt percolation model****Melt Os concentration**

Fig. A.6**Parameter variation in the melt percolation model****Melt $^{187}\text{Os}/^{188}\text{Os}$ ratio**