

Figure 2: Aluminum appears to rise then fall as it is incorporated into crystal structures as silica content increases. Upwards of 50 wt% SiO₂ Aluminum decreases as it seems to leave conditions in which it is favorable as a constituent of a lattice. Al-bearing minerals include pyroxenes, amphiboles, feldspars, clays, and olivines.

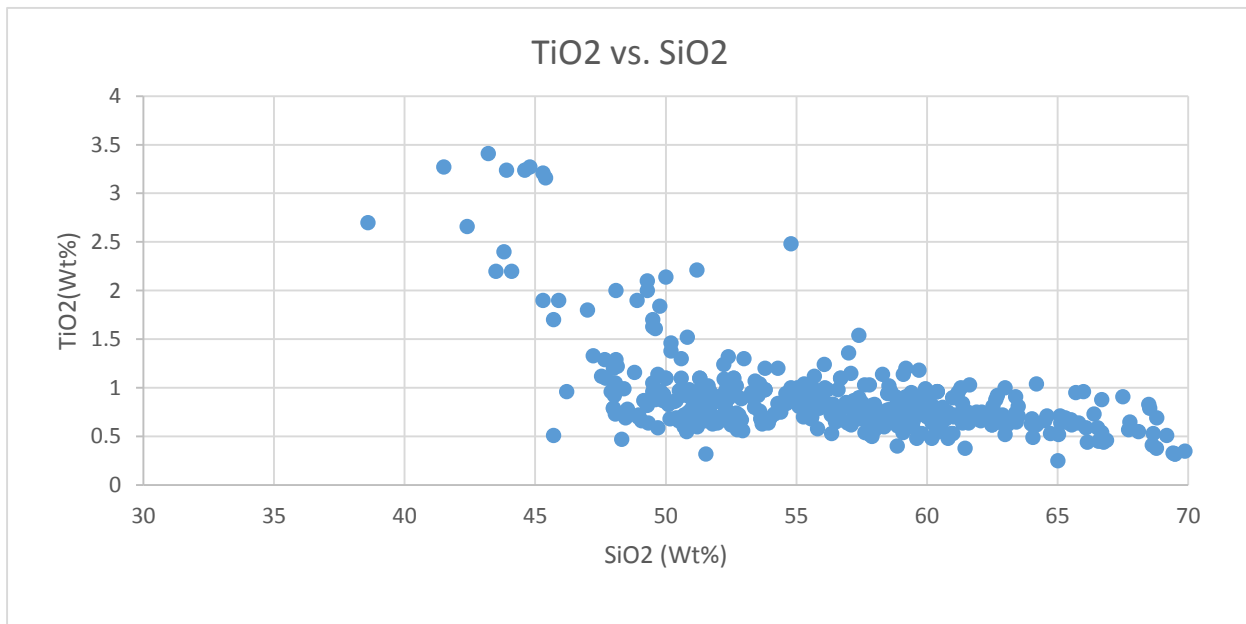


Figure 1: Titanium appears to have a shallow downward sloping trend indicating that is compatible. The negative trend means that Ti is incorporated into lattice structures easily at lower silica contents/when the first crystals formed. The trend begins around 45 wt%. Illmenite is a titanium bearing igneous mineral that may be a phase responsible for the consumption of Ti.