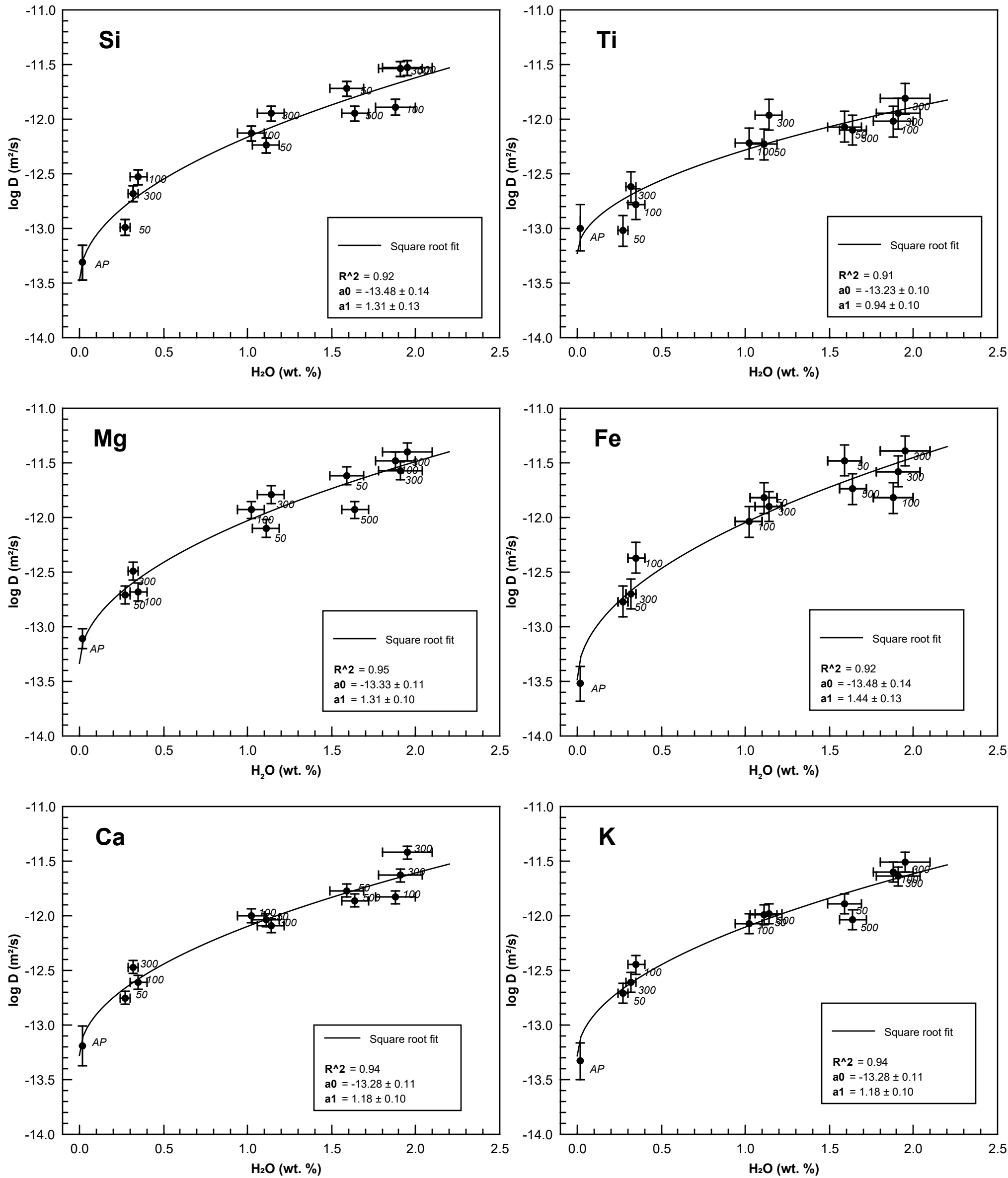
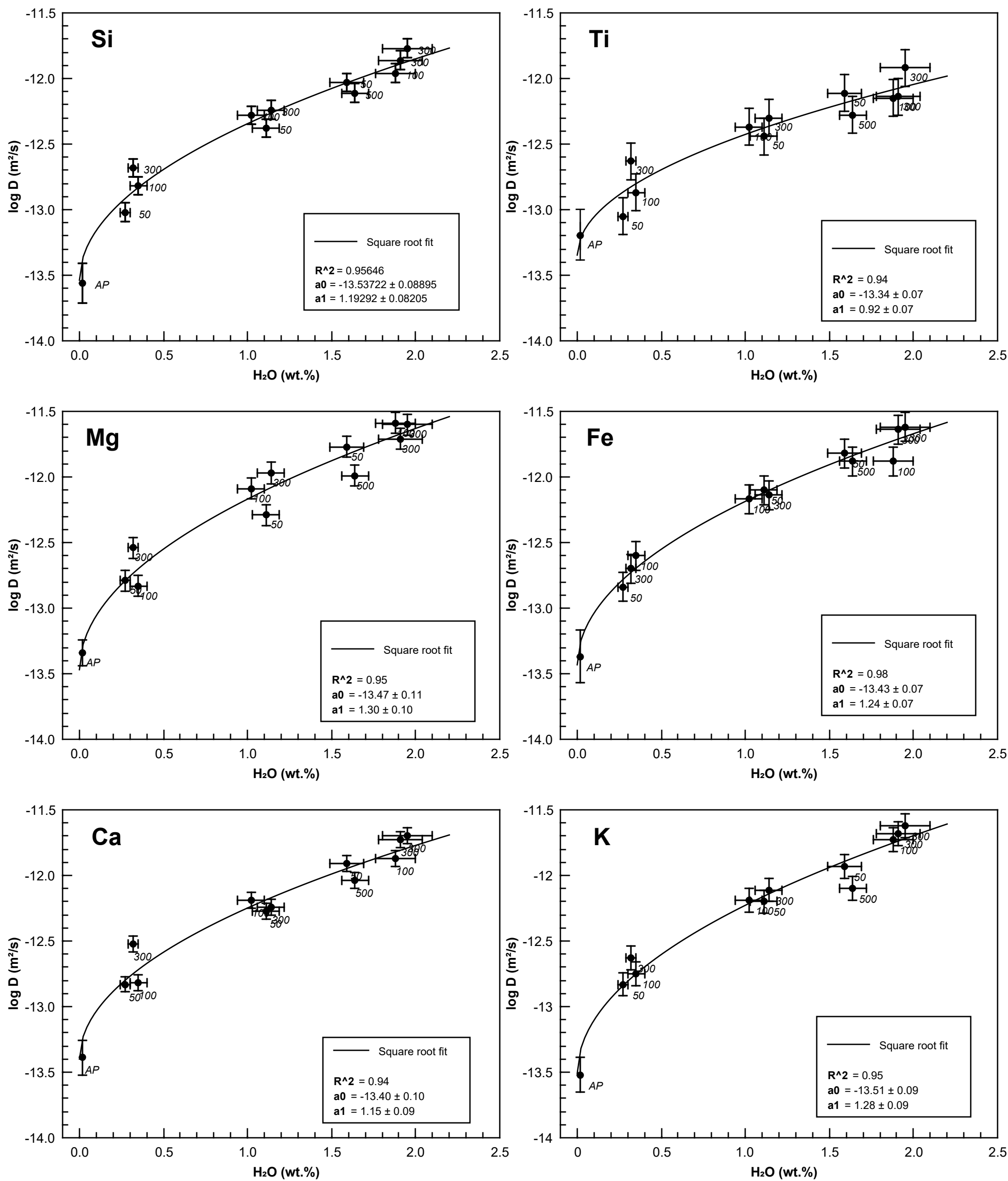


**Supplementary Figure 2.** Complete set of plots relating water content and elemental diffusivity in dry (this work) and hydrous melts (González-García et al., 2017) for **(a)** Lt<sub>58</sub>, **(b)** Tr<sub>62</sub>, **(c)** Tr<sub>66</sub> and **(d)** Rh<sub>70</sub> melt compositions. Subscripts denote silica content of the corresponding melt. Pressure is given next to each data point (values in MPa; AP = atmospheric pressure). A fitting following the equation  $\log D = a_0 + a_1 * w^{0.5}$  ( $D$ : effective binary diffusion coefficient in m<sup>2</sup>/s;  $w$ : water content in wt.%) is plotted and parameters are given in each panel. Fits were calculated with qtiPlot software using a least-squares Levenberg-Marquadt algorithm.

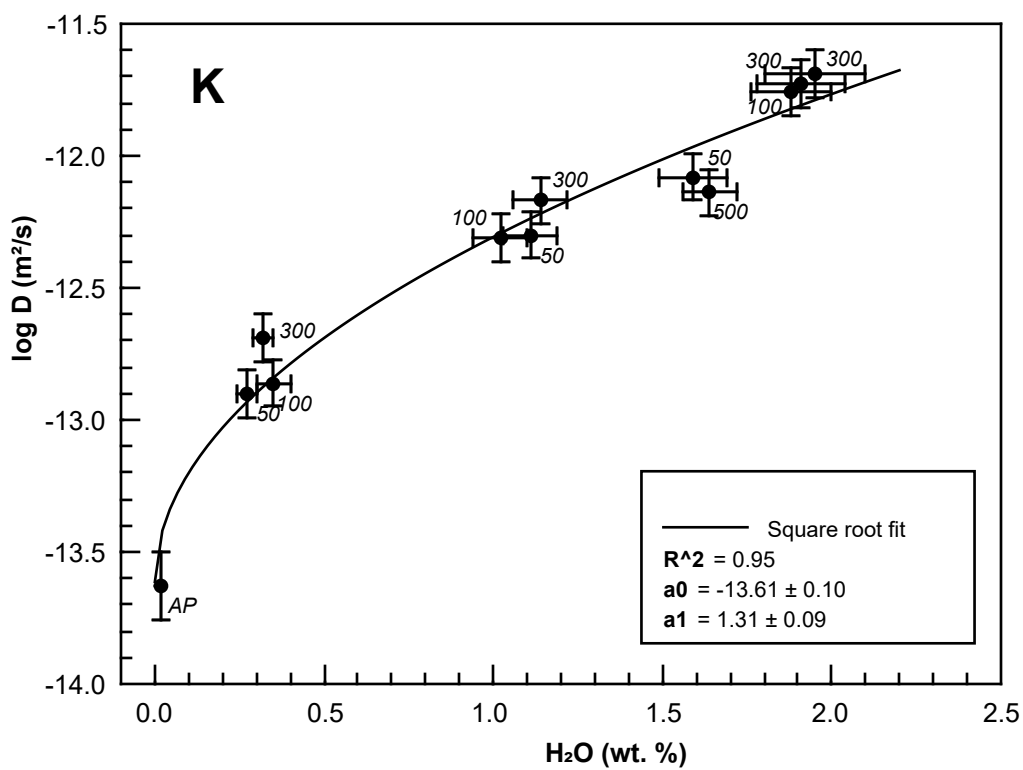
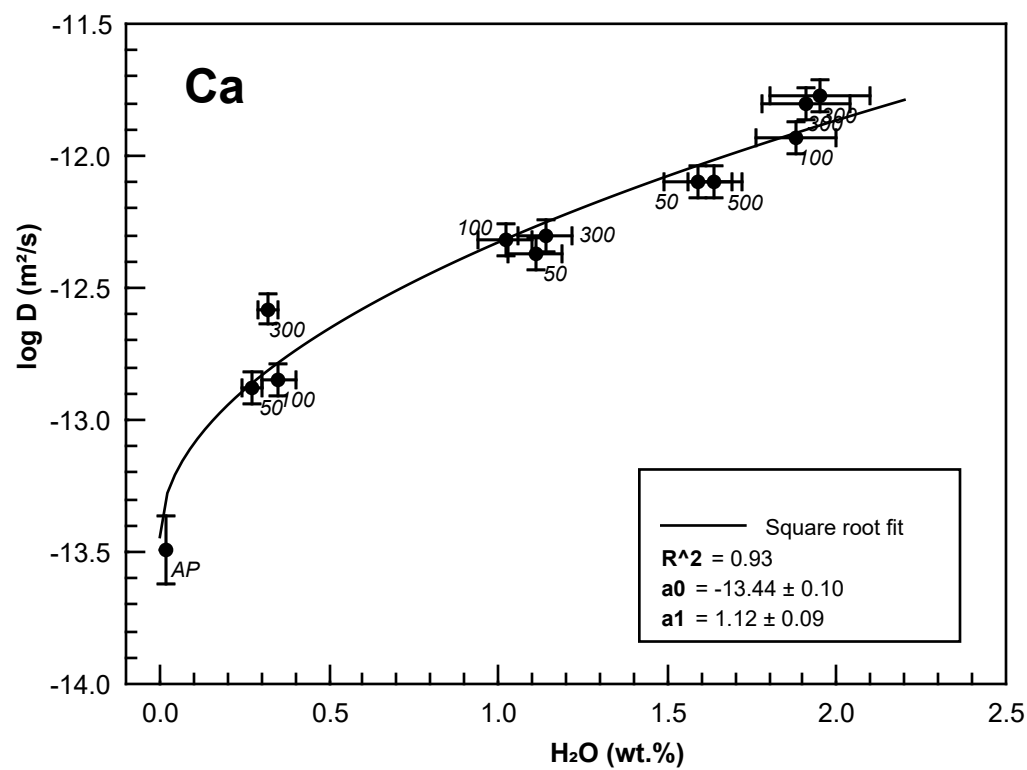
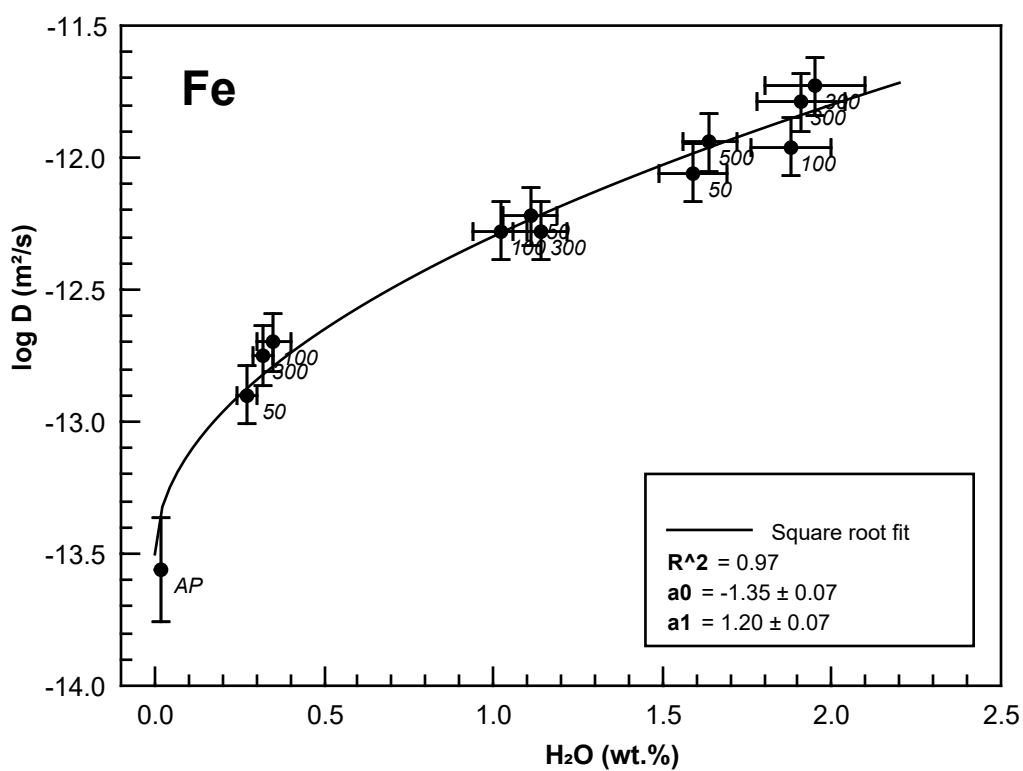
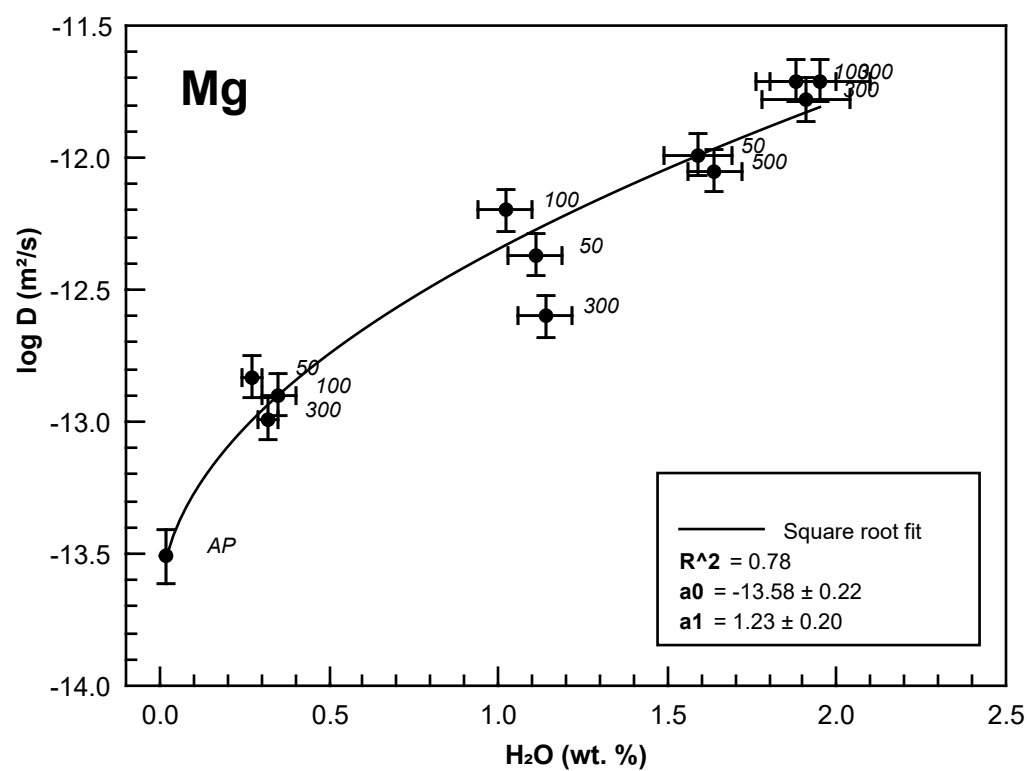
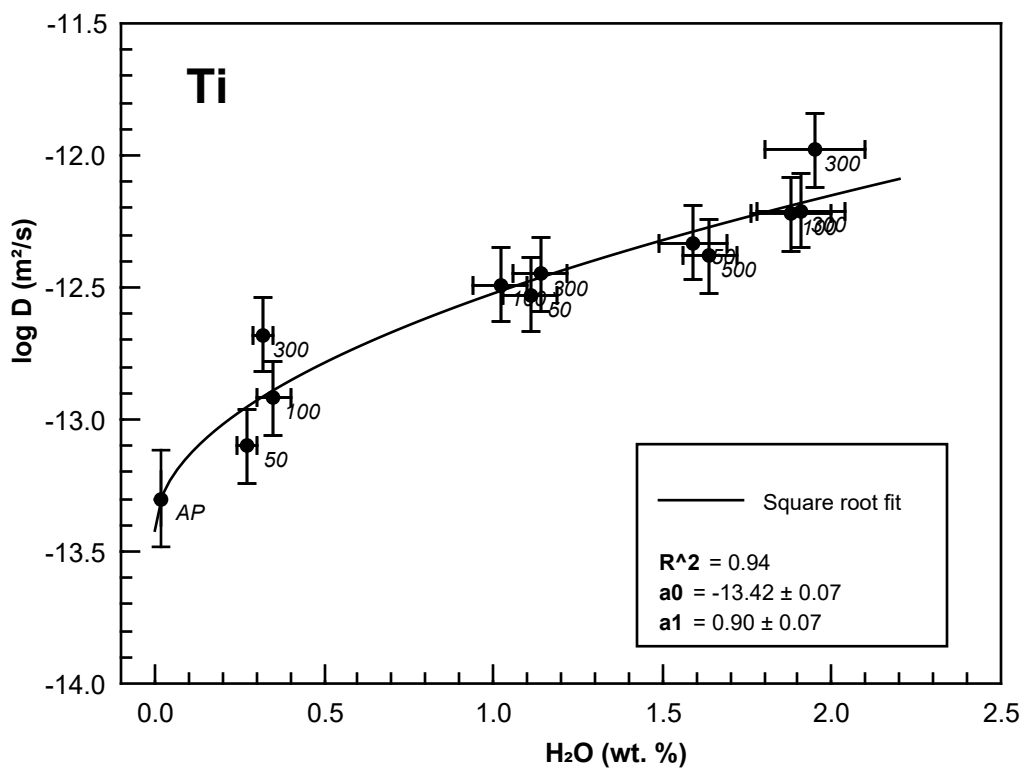
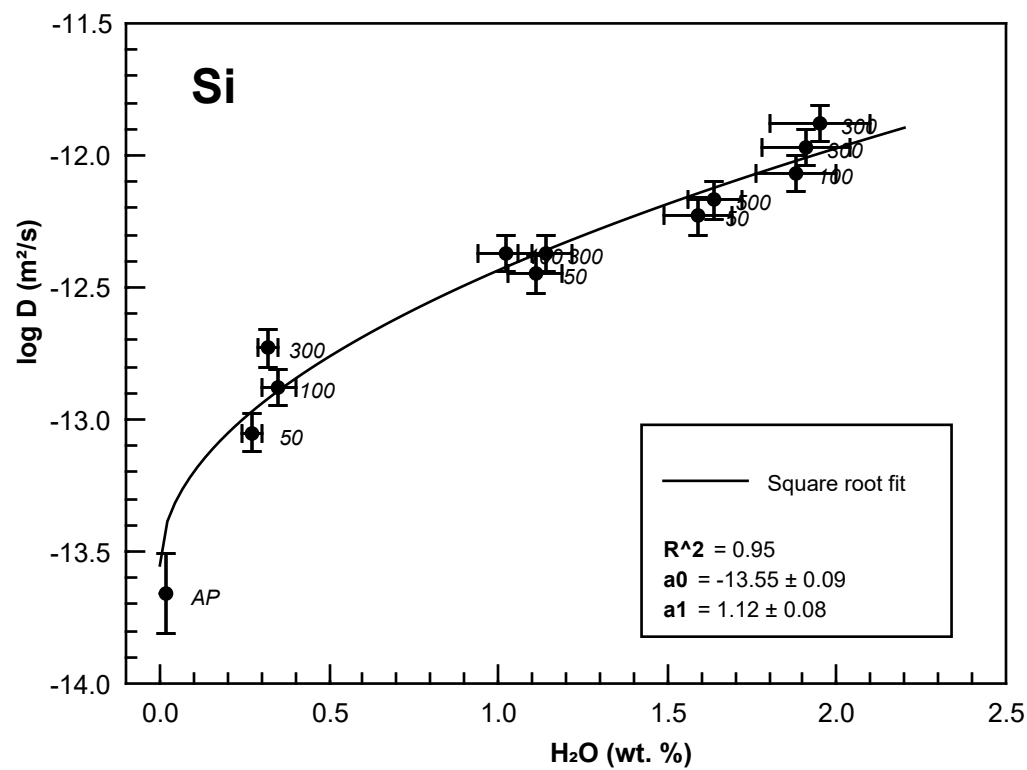
**a** Melt composition:  $\text{Lt}_{58}$   
 $T = 1200\text{ }^{\circ}\text{C}$



**b** Melt composition: Tr<sub>62</sub>  
T = 1200 °C



**c** Melt composition: Tr<sub>66</sub>  
T = 1200 °C



**d** Melt composition: Rh<sub>70</sub>  
T = 1200 °C

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