



Figure S2 The long-term reaction rates (reacted/unreacted fractions) of $^{256}\text{Zr}^{2+}$
The Zr reaction rates were calculated by multiplication of secondary ionization yield of Zr ($\sim 1.4\%$)
and $^{96}\text{Zr}({}^{14}\text{N}^1\text{H})_2({}^{14}\text{N}^1\text{H}_3)_8^{2+}$ reaction rate ($\sim 5.2\%$)