Electronic Supplementary Information

Investigation of \textit{para}-sulfonatocalix[n]arenes \( n = 6, 8 \) as potential chelates for \(^{230}\text{U}\)

Gilles Montavon, Urska Repinc, Christos Apostolidis, Frank Bruchertseifer, Kamel Abbas, Alfred Morgenstern
Figure SM-1: Complexation of U(VI) by L6. Speciation diagram as a function of pH according to the work of Sonoda et al. $^{11}$, considering (B) or not considering (A) the formation of hydrolysed species (hyd. Species; notably (UO$_2$)$_2$OH$^{3+}$ and (UO$_2$)$_2$(OH)$_2$$^{2+}$).
Figure SM-2: Complexation of U(VI) by L6. Speciation diagram calculated with the parameters determined in this work (Table 1) as a function of the pH in the conditions of Figure 5C, i.e. [NaClO₄]=0.1 M, [U(VI)]ₜot=1.5 × 10⁻⁶ M and [L₆]=10⁻⁵ M.