

Figure S1

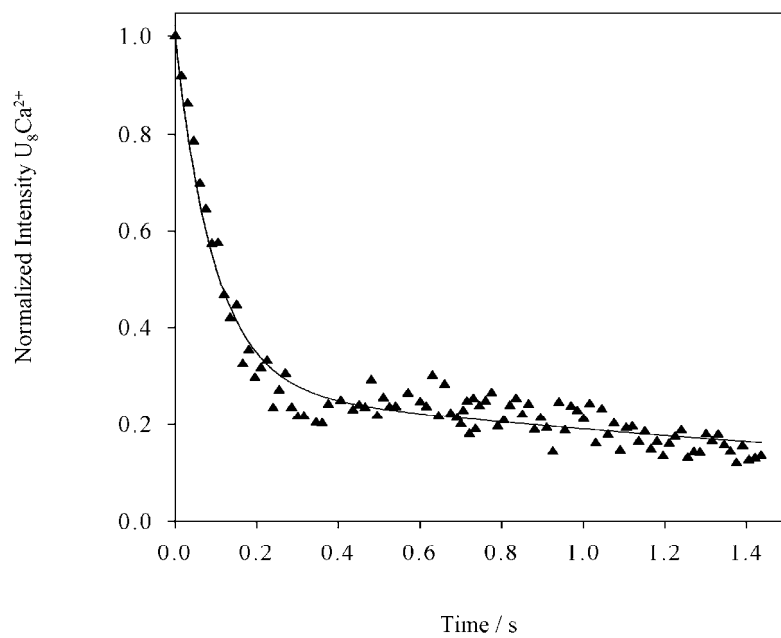


Figure S1. IRMPD kinetics for U<sub>8</sub>Ca<sup>2+</sup>.

Figure S2

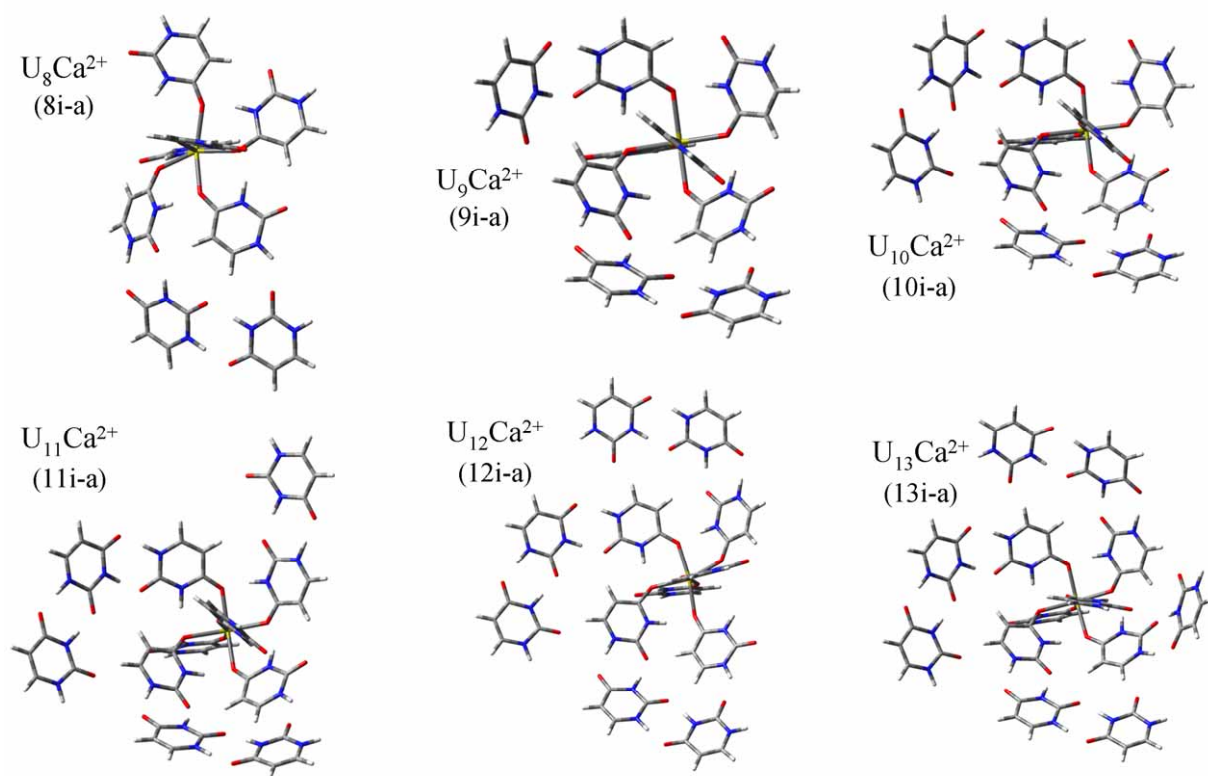


Figure S2. Proposed structures for  $U_nCa^{2+}$  with  $n = 8-13$ .

Figure S3

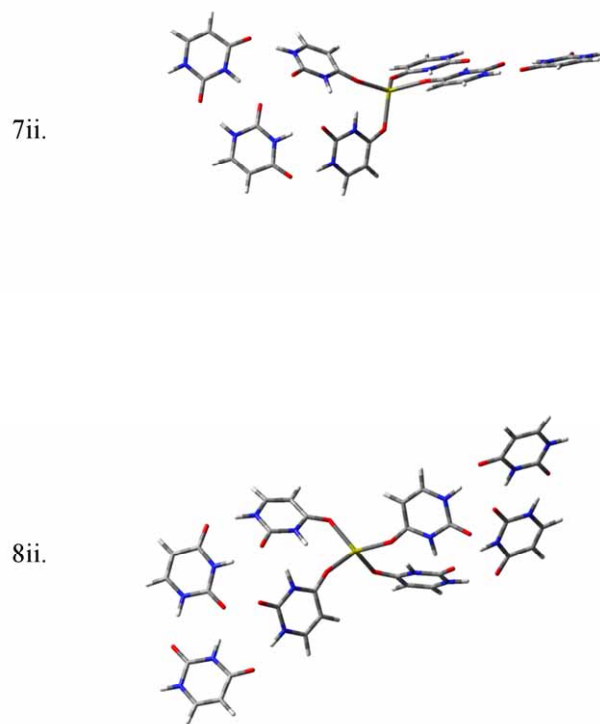


Figure S3. Proposed structures for  $U_nCa^{2+}$  with  $n = 7-8$  obtained by adding uracil molecules to the tetrahedral based inner core structure, 4ii.