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SUPPORTING INFORMATION

ZIRCONIUM (IV) TETRAMER/OCTAMER HYDROLYSIS EQUILIBRIUM IN AQUEOUS HYDROCHLORIC ACID SOLUTION**A. Singhal, L. M. Toth,* J. S. Lin,[†] and K. Affholter***Chemical Technology Division, [‡]Oak Ridge National Laboratory, Oak Ridge, TN 37831**[†]Solid State Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831*Calculated values of the R_g and the number of electrons in the tetramer and the octamer

Species	Number of electrons	R_g (Å) with background electron correction	Number of excess electrons
$[\text{Zr}_4(\text{OH})_8(\text{H}_2\text{O})_{16}\text{Cl}_6]^{2+}$	454	3.7	237
$\text{Zr}_8(\text{OH})_{20}(\text{H}_2\text{O})_{24}\text{Cl}_{12}$ (sheet)	876	5.4	464
$\text{Zr}_8(\text{OH})_{20}(\text{H}_2\text{O})_{24}\text{Cl}_{12}$ (stacked)	876	5.0	464