

Supplemental Table 2 Crystallographic analysis

	Crystal 3 [Ta ₆ Br ₁₂] ²⁺			Crystal 4 EMTS	Crystal 5 K ₂ OsO ₄	Crystal 6 Native
Data collection						
Space group	P6 ₁ 22			P6 ₁ 22	P6 ₁ 22	P6 ₁ 22
Cell dimensions						
<i>a</i> , <i>b</i> , <i>c</i> (Å)	a=b=189.1, c=107.2			a=b=186.8, c=108.4	a=b=189.9, c=108.6	a=b=188.7, c=107.6
α , β , γ (°)	$\alpha=\beta=90^\circ$, $\gamma=120^\circ$			$\alpha=\beta=90^\circ$, $\gamma=120^\circ$	$\alpha=\beta=90^\circ$, $\gamma=120^\circ$	$\alpha=\beta=90^\circ$, $\gamma=120^\circ$
	<i>Ta Peak</i>	<i>Ta Inflection</i>	<i>Br Peak</i>	<i>Hg Peak</i>	<i>Os Peak</i>	
Wavelength	1.2552	1.2557	0.9202	1.0080	1.1401	0.9796
Resolution (Å)	20.0-3.90	20.0-3.90	20.0-4.10	20.0-4.00	20.0-4.90	20.0-3.15
<i>R</i> _{sym} or <i>R</i> _{merge}	9.9 (48.8)	7.5 (47.1)	8.5 (64.1)	10.7 (67.5)	6.4 (38.5)	6.1 (68.6)
<i>I</i> / σ <i>I</i>	19.0 (3.6)	23.6 (3.1)	21.6 (2.0)	12.5 (2.3)	24.4 (3.2)	28.4 (2.2)
Completeness (%)	99.5 (99.5)	99.2 (96.7)	96.8 (83.0)	94.1 (95.1)	95.5 (88.6)	99.6 (98.2)
Redundancy	7.4	7.4	12.9	7.4	8.3	4.8

*Highest-resolution shell is shown in parentheses.