SUPPORTING INFORMATION

A Family of Octahedral Rhenium Cluster Complexes $[\text{Re}_6\text{Q}_8(\text{H}_2\text{O})_n(\text{OH})_{6-n}]^{n-4}$ (Q = S, Se; $n = 0\div 6$): Structural and pH-Dependent Spectroscopic Studies

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Table. The pH-Dependences of the Emission Lifetimes of $[\text{Re}_6\text{Q}_8(\text{OH})_6]^{4-}$ (Q = S or Se) in Aqueous Solutions

pH	$[\text{Re}_6\text{S}_8(\text{OH})_6]^{4-}$		$[\text{Re}_6\text{Se}_8(\text{OH})_6]^{4-}$	
	$\tau_{\text{em}}(I) / \mu\text{s} (A)$	$\tau_{\text{em}}(s) / \mu\text{s} (A)$	$\tau_{\text{em}}(I) / \mu\text{s} (A)$	$\tau_{\text{em}}(s) / \mu\text{s} (A)$
0.10			0.17 (1.00)	
1.0	2.35 (1.00)		0.74 (0.70)	0.16 (0.30)
2.0	2.3 (0.85)	0.24 (0.15)	1.6 (0.84)	0.10 (0.16)
4.0	2.2 (0.78)	0.12 (0.22)	0.80 (0.79)	0.21 (0.21)
5.0	2.1 (0.81)	0.15 (0.19)	0.25 (0.57)	0.04 (0.43)
5.86	1.8 (0.73)	0.28 (0.27)		
5.93	2.2 (0.75)	0.37 (0.25)		
5.96	1.8 (0.79)	0.23 (0.21)		
6.3	1.9 (0.67)	0.40 (0.33)		
7.0	1.1 (1.00)			
8.1	0.51 (1.00)			
9.2	1.2 (0.50)	0.30 (0.50)		
10.1	1.4 (0.82)	0.23 (0.18)	0.15 (1.00)	
10.6	1.6 (0.91)	0.10 (0.09)		
11.0	1.8 (1.00)		0.55 (1.00)	
11.5	1.9 (1.00)			
12.0	2.0 (1.00)		0.84 (1.00)	
13.0	2.2 (1.00)		1.8 (0.88)	0.45 (0.12)
13.9	2.1 (1.00)			
~14.0	1.9 (1.00)		2.8 (0.84)	0.39 (0.16)