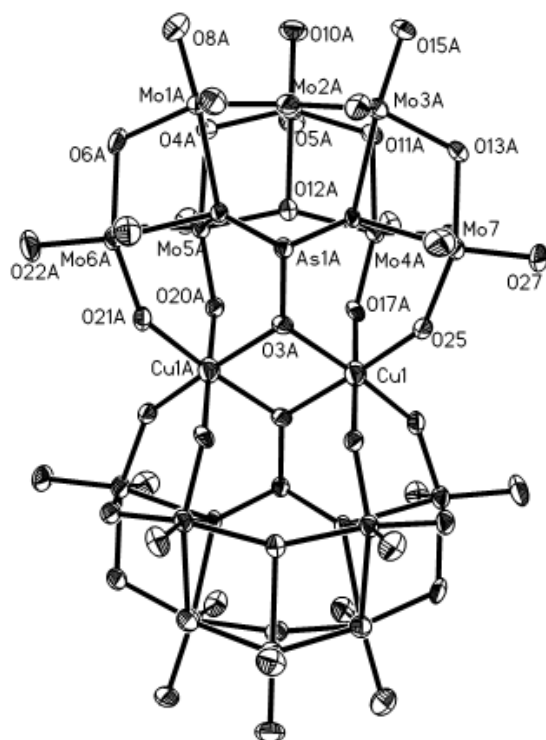


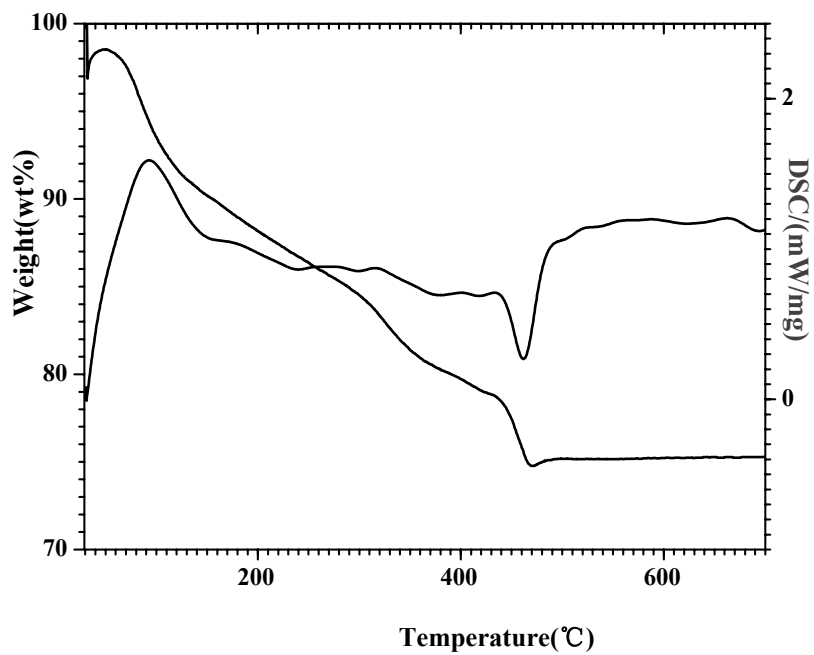
**Table S1** Selected Bond Lengths (Å) and Bond Angles (deg) for Compounds **1** and **2**

Compound 1			
<i>Lengths</i>		<i>Angles</i>	
Mo(7)–O(12)	1.718(6)	O(1)-As(1)-O(2)	98.2(2)
Mo(7)–O(13)	1.734(7)	O(2)-As(1)-O(3)	98.5(2)
Mo(7)–O(9)	1.797(6)	O(1)-As(1)-O(3)	102.8(3)
Mo(7)–O(22)	2.024(7)	O(8)-Cr(1)-O(1)	89.0(3)
Mo(7)–O(11)	2.184(7)	O(8)-Cr(1)-O(1)#2	90.5(3)
Mo(7)–O(3)	2.305(5)	O(8)-Cr(1)-O(9)	90.2(3)
As(1)–O(1)	1.768(6)	O(8)-Cr(1)-O(15)#2	89.0(3)
As(1)–O(2)	1.804(6)	O(1)-Cr(1)-O(14)#2	91.3(3)
As(1)–O(3)	1.817(6)	O(1)#2-Cr(1)-O(14)#2	90.2(3)
Cr(1)–O(15)	1.942(6)	O(9)-Cr(1)-O(14)#2	89.1(3)
Cr(1)–O(14)	1.945(6)	O(5)#2-Cr(1)-O(14)#2	90.7(3)
Cr(1)–O(8)	1.952(6)	O(1)-Cr(1)-O(1)#2	80.2(3)
Cr(1)–O(9)	1.964(6)	O(1)#2-Cr(1)-O(15)#2	95.6(3)
Cr(1)–O(1) #2	1.989(6)	O(9)-Cr(1)-O(15)#2	89.3(3)
Cr(1)–O(1)	1.998(6)	O(1)-Cr(1)-O(9)	95.0(3)
Symmetry transformations used to generate equivalent atoms: #1 x-0.5, -y+0.5, z+0.5    #2 -x+1.5, y+0.5, -z+1.5			
Compound 2			
<i>Lengths</i>		<i>Angles</i>	
Mo(2)–O(10)	1.711(10)	O(3)-As(1)-O(2)	98.0(4)
Mo(2)–O(9)	1.733(10)	O(3)-As(1)-O(1)	99.1(4)
Mo(2)–O(11)	1.943(9)	O(2)-As(1)-O(3)	102.5(4)
Mo(2)–O(4)	1.948(9)	O(25)-Cu(1)-O(21)	91.8(4)
Mo(2)–O(5)	2.205(10)	O(25)-Cu(1)-O(17)#2	91.0(4)
Mo(2)–O(12)	2.207(9)	O(21)-Cu(1)-O(17)#2	90.6(4)
As(1)–O(3)	1.753(8)	O(25)-Cu(1)-O(20)	89.6(4)
As(1)–O(1)	1.790(9)	O(21)-Cu(1)-O(20)	90.0(4)
As(1)–O(2)	1.794(8)	O(21)-Cu(1)-O(3)	93.7(4)
Cu(1)–O(25)	1.942(9)	O(17)#2 -Cu(1)-O(3)	91.9(3)
Cu(1)–O(21)	1.976(9)	O(20) -Cu(1)-O(3)	87.4(3)
Cu(1)–O(17)#2	1.978(9)	O(25)-Cu(1)-O(3)#2	94.4(4)
Cu(1)–O(20)	1.994(9)	O(17)#2-Cu(1)-O(3)#2	88.5(4)
Cu(1)–O(3)	2.033(9)	O(20)-Cu(1)-O(3)#2	90.8(4)
Cu(1)–O(3)#2	2.044(9)	O(3)-Cu(1)-O(3)#2	80.1(4)
Symmetry transformations used to generate equivalent atoms: #1 x, y, 1+z    #2 -x+1, -y, -z+1			

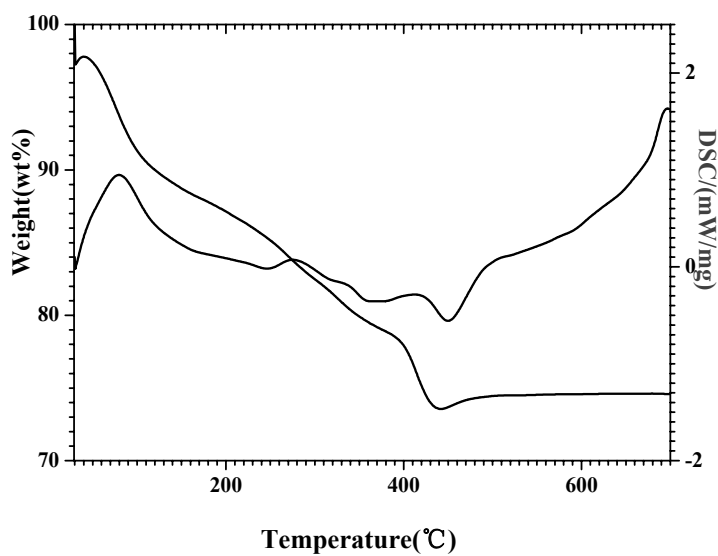
**Fig. S1** ORTEP representation for the structure of **2a**, with displacement ellipsoids shown at 30% probability level.



**Fig. S2** (a) TG-DSC Curve of **1** (b) TG-DSC Curve of **2**



(a)

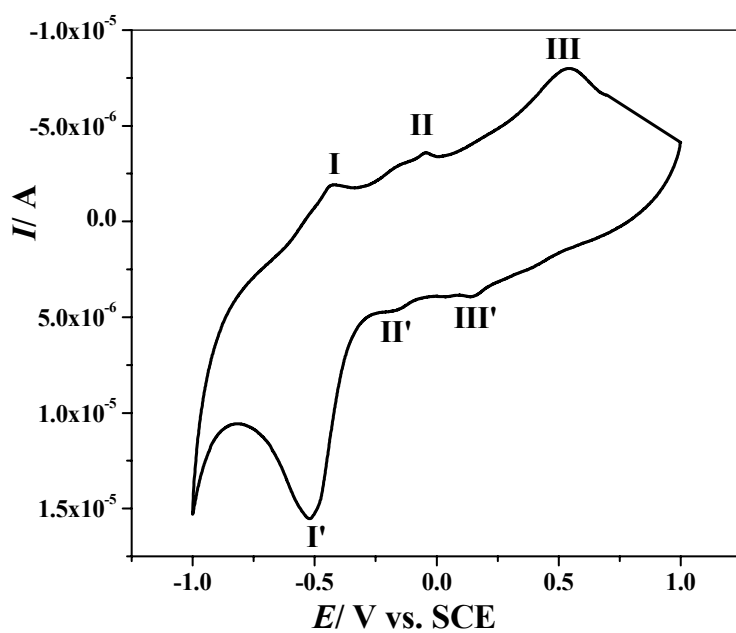


(b)

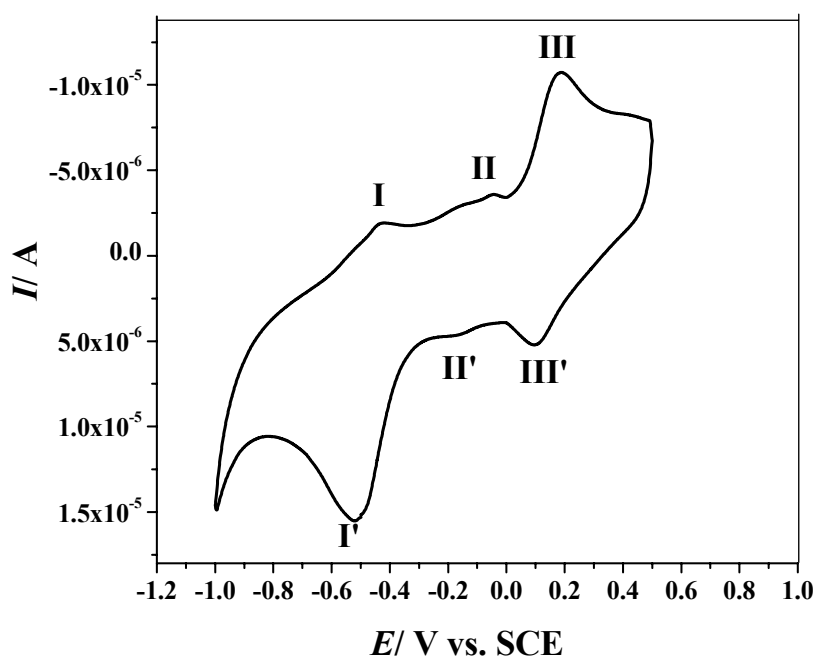
**Fig. S3** Cyclic voltammogram study of **1** and **2**. Scan rate:  $10 \text{ mV s}^{-1}$ ; working electrode: glassy carbon; reference electrode: SCE. For further details, see the text.

(a) Evolution of the voltammogram of a  $2 \times 10^{-4}$  solution of **1** at pH = 7

(b) Evolution of the voltammogram of a  $2 \times 10^{-4}$  solution of **2** at pH = 7



(a)



(b)