Supporting info

Table S1. Crystallographic data for **UV-012**.

Compound	**UV-012**
Chemical formula	$C_{31}H_{30}Co_2N_4O_{12}$
Formula weight	768.45
Space group	orthorhombic
Crystal system	P*bnb*
Crystal size (mm^3)	0.15 x 0.125 x 0.025
Crystal color and shape	Violet plate
a(Å)	7.6879(1)
b(Å)	16.0216(4)
c(Å)	25.5781(6)
α(°)	90
β(°)	90
γ(°)	90
Volume ($Å^3$)	3150.5(12)
Formula units per cell, Z	4
δ_{calc} ($g\ cm^{-3}$)	1.584
μ (mm^{-1})	1.112
R (int)	0.0831
F(000)	1524
Temperature of measurement (K)	293(2)
θ Limits (°)	1.59–27.49
No. of reflections collected	29608
No. of independent reflections	3609
No. of observed reflections	2456
R [$F^2 > 2\sigma(F^2)$]	0.0687
wR (F^2)	0.2266
Goodness of fit, S	1.092
No. of parameters	227
$\Delta\rho_{min}$ ($e\ Å^{-3}$)	-0.544
$\Delta\rho_{max}$ ($e\ Å^{-3}$)	2.199

Table S2. Selected bond distances (Å) and bond angles (°) for **UV-012**.

Compound **2**	
Bond lengths (Å)	
Co1 – N1	2.084 (9)
Co1 – N2	2.156 (10)
Co1 – O2	2.459 (16)
Co1 – O1	2.032 (8)
Co1 – O5	2.339 (12)
Co1 – O3	1.964 (8)
Bond angles (°)	
N1-Co1-N2	99.31 (4)
N1-Co1-O1	143.01 (4)
N1-Co1-O5	88.25 (4)
N1-Co1-O3	105.82 (4)
N2-Co1-O1	95.62 (4)
N2-Co1-O5	172.41 (4)
N2-Co1-O3	99.34 (4)
O2-Co1-O5	78.52 (4)
O3-Co1-O5	77.76 (4)
O3-Co1-O1	104.9 (3)

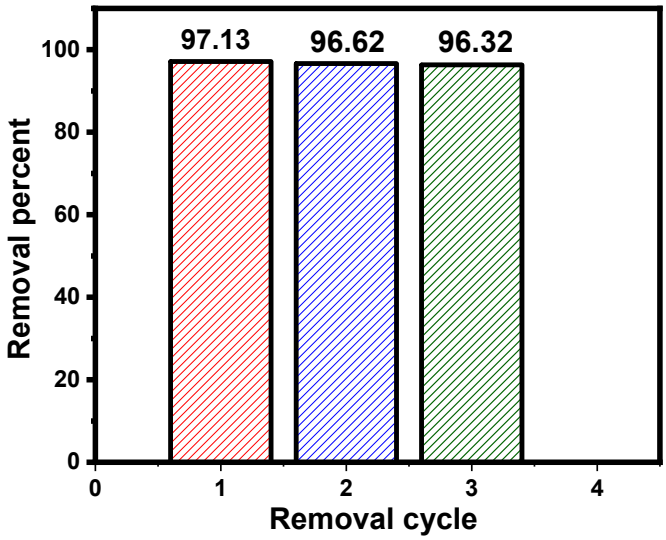

Figure S1) UV-012 reutilization cycles for MO adsorption.

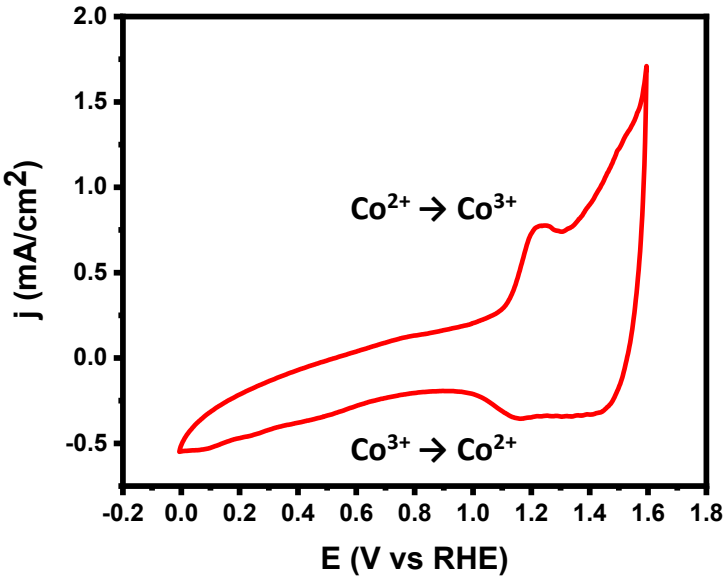

Figure S2) UV-012 cyclic voltammetry experiments