

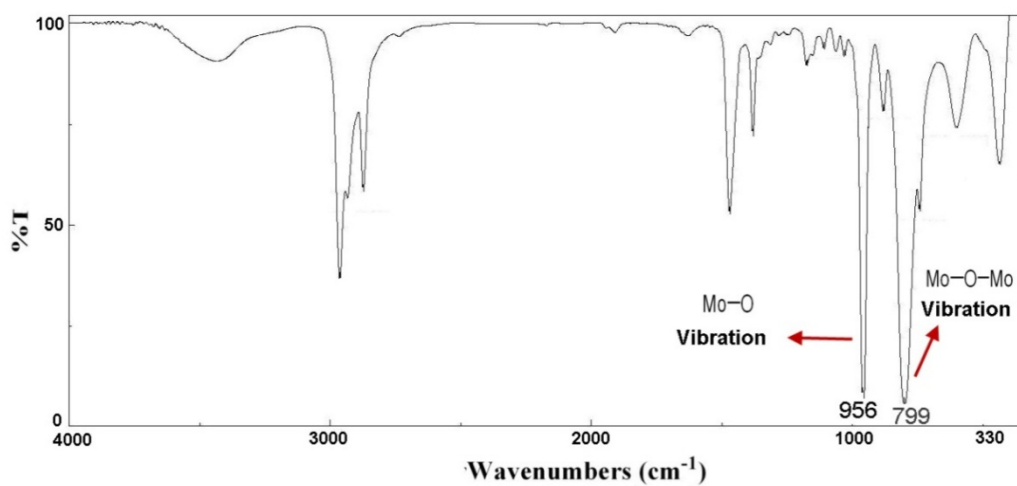
Electronic Supplementary Information (ESI)

**Synthesis and characterization of a new porphyrin–polyoxometalate
hybrid material and investigation of its catalytic activity**

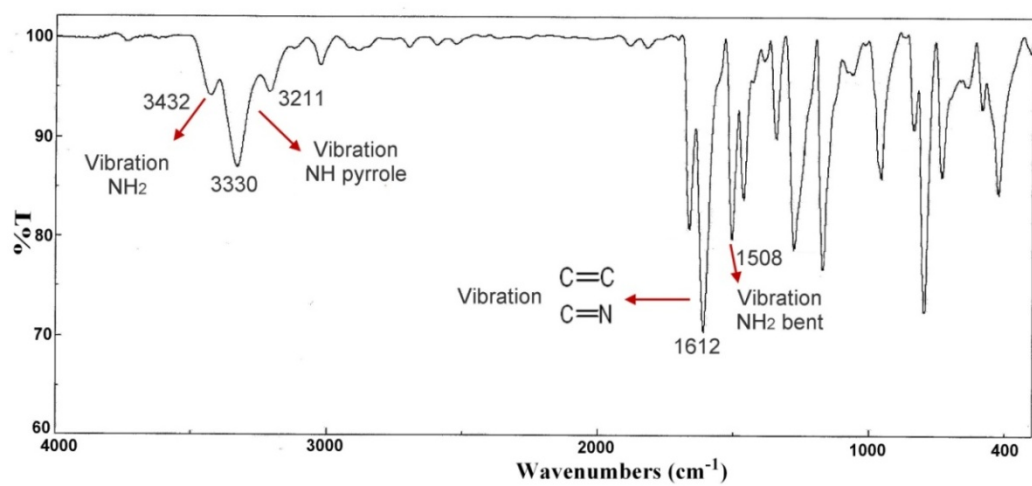
Mehdi Araghi, Valiollah Mirkhani,* Majid Moghadam,* Shahram Tangestaninejad, Iraj
Mohammdpoor-Baltork

Department of Chemistry, Catalysis Division, University of Isfahan, Isfahan 81746-73441, Iran

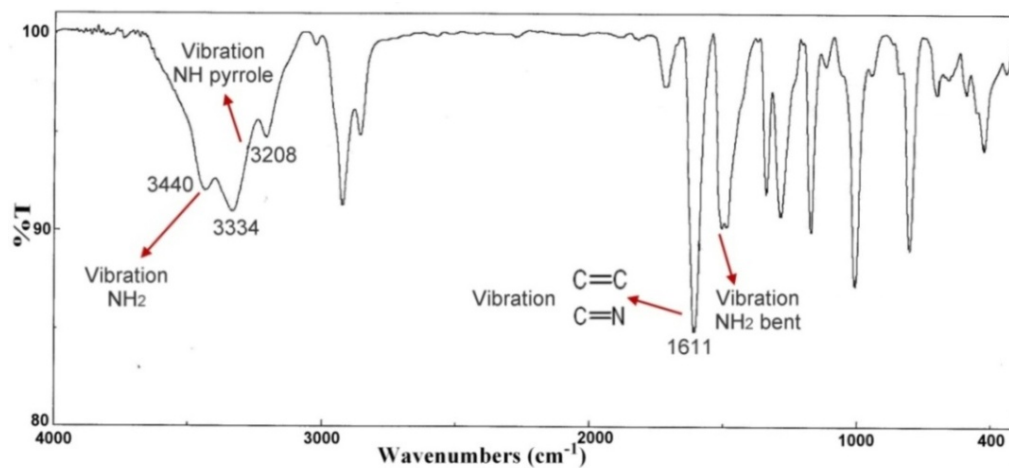
*Corresponding authors: Tel: +98-311-7932713; Fax: +98-311-6689732; E-mails: mirkhani@sci.ui.ac.ir (V. Mirkhani); moghadamm@sci.ui.ac.ir (M. Moghadam).



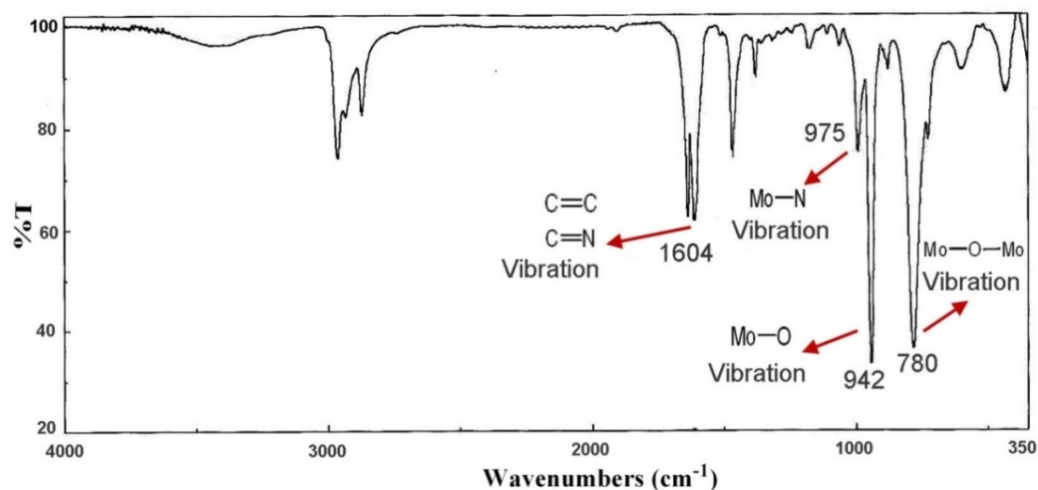
(A)



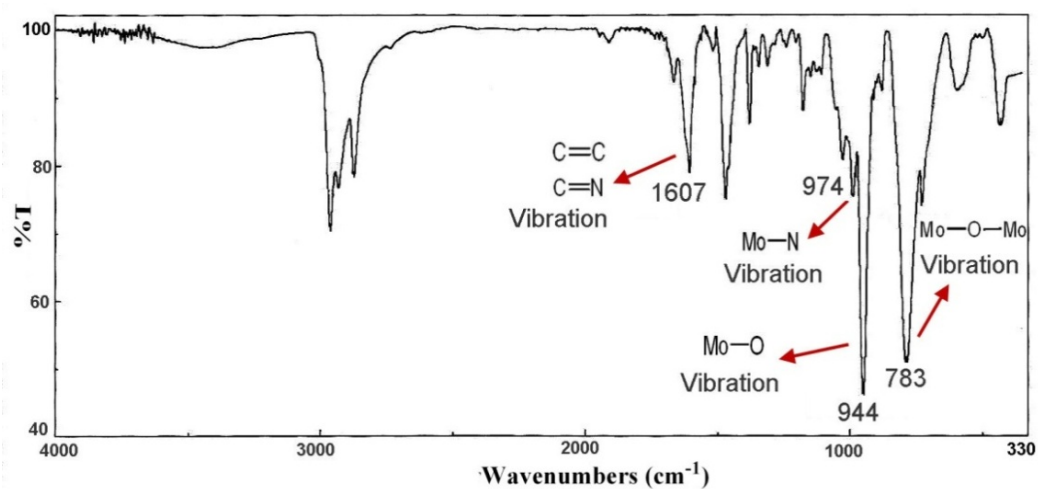
(B)



(C)

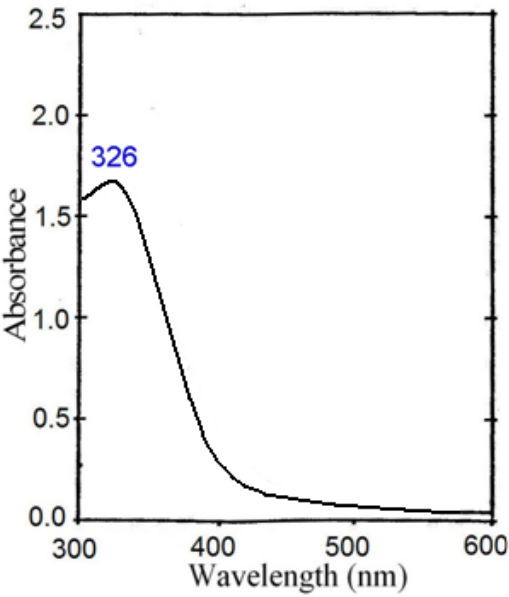


(D)

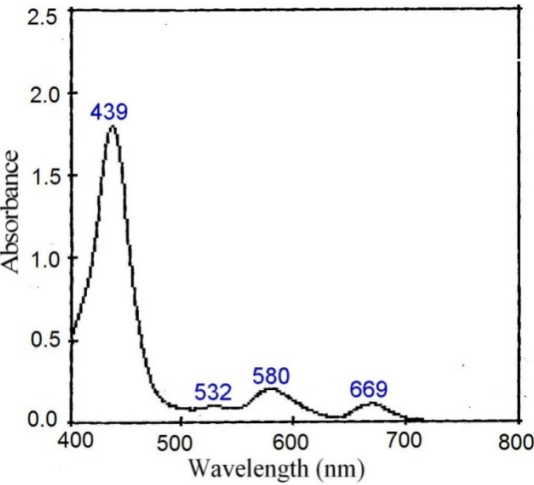


(E)

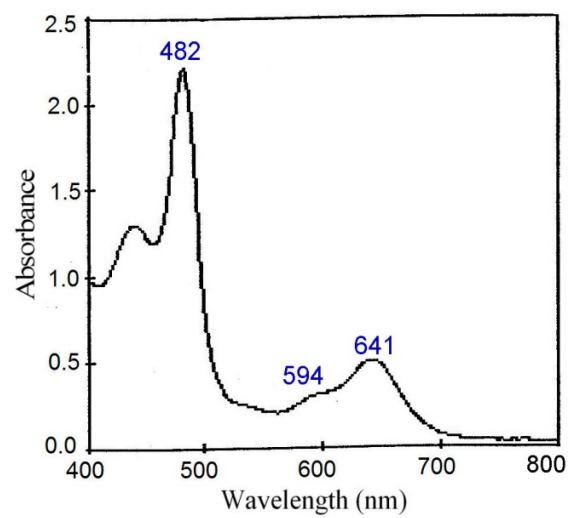
Fig. S1. FT IR spectra of: (A) Tetrabutylammonium hexamolybdate, [(C₄H₉)₄N]₂[Mo₆O₁₉]; (B) 5,10,15,20-*tetrakis*(4-aminophenyl)porphyrin (**1**); (C) 5,10,15,20-*tetrakis*(4-aminophenyl)porphyrinatomanganese(III) chloride (**2**); (D) hybrid compound (**1a**); (E) hybrid compound (**2a**).



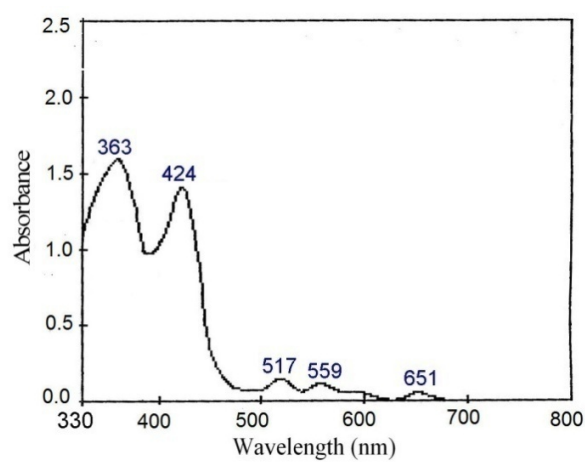
(A)



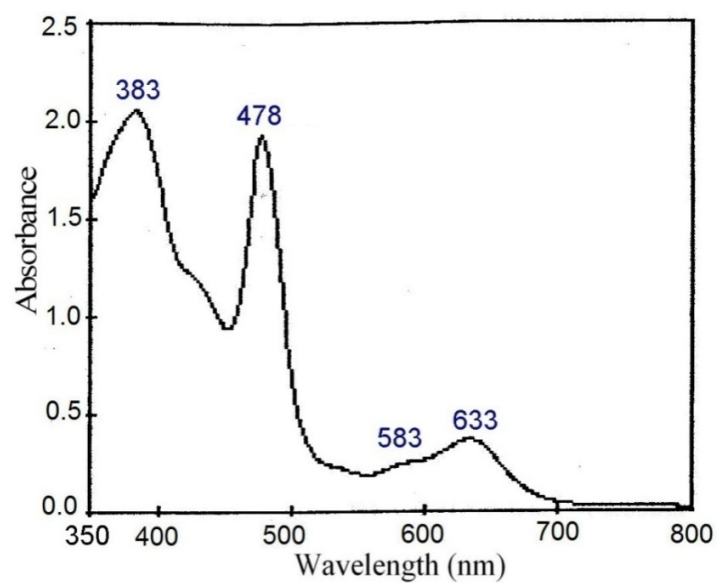
(B)



(C)

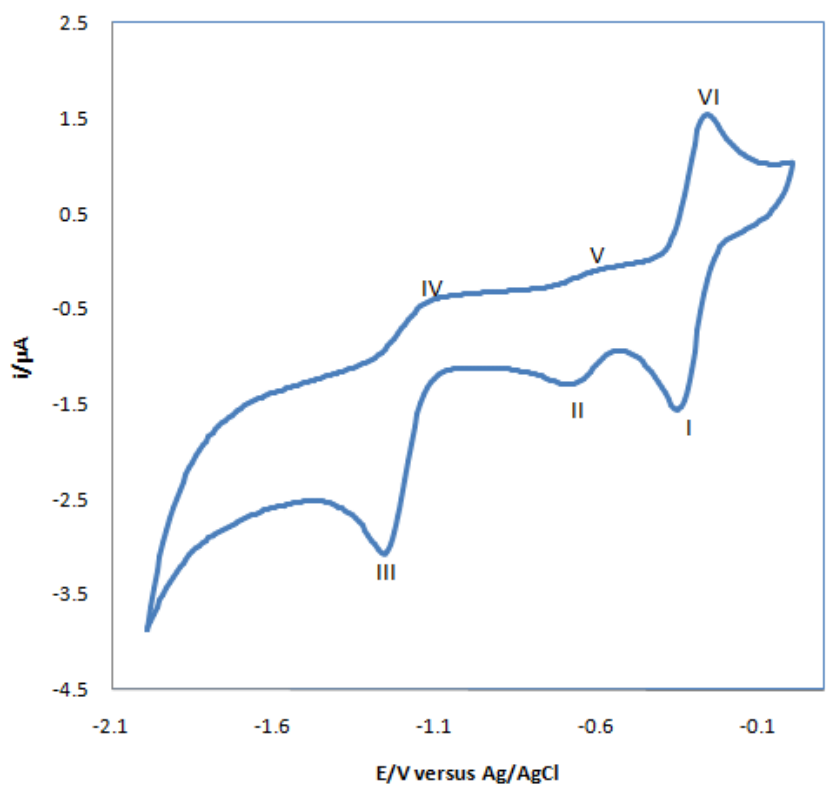


(D)

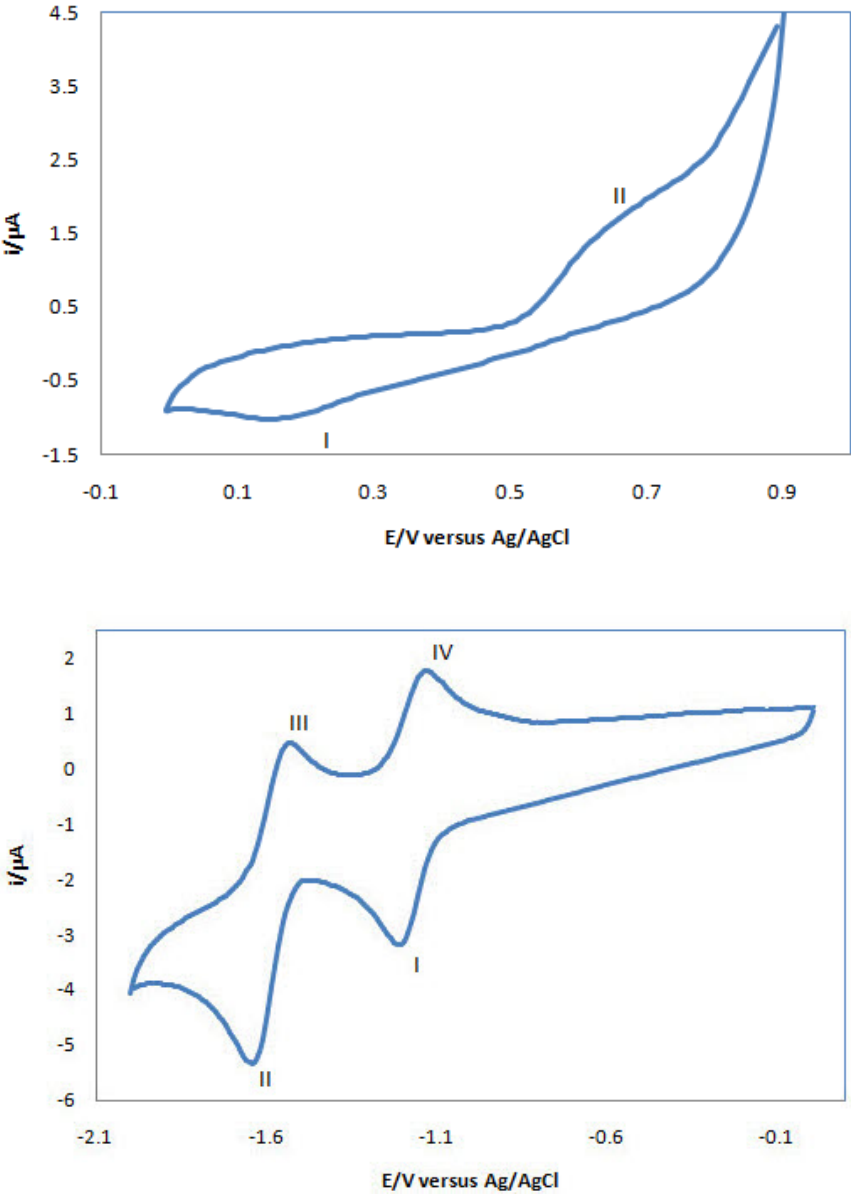


(E)

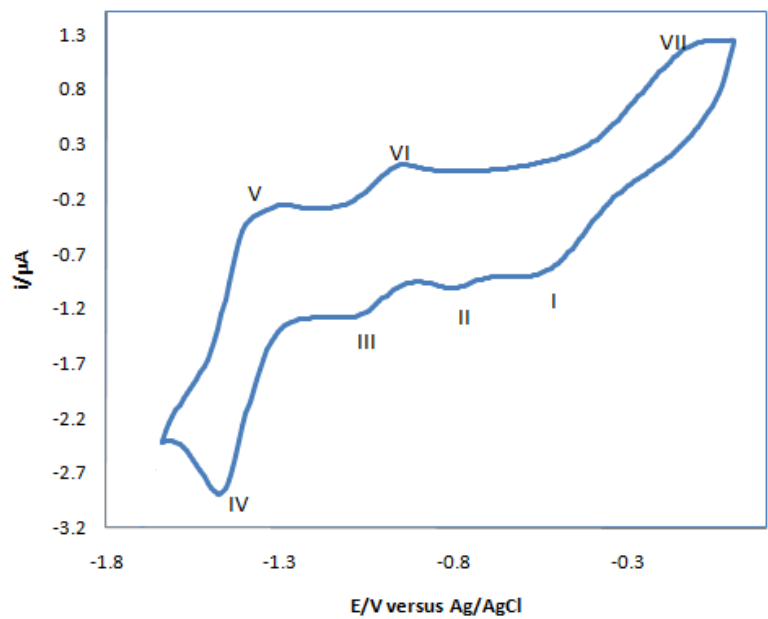
Fig. S2. UV-Vis spectra of : (A) Tetrabutylammonium hexamolybdate, $[(C_4H_9)_4N]_2[Mo_6O_{19}]$, (B) 5,10,15,20-*tetrakis*(4-aminophenyl)porphyrin (**1**); (C) 5,10,15,20-*tetrakis*(4-aminophenyl)-porphyrinatomanganese(III) chloride (**2**); (D) hybrid compound (**1a**); (E) hybrid compound (**2a**).



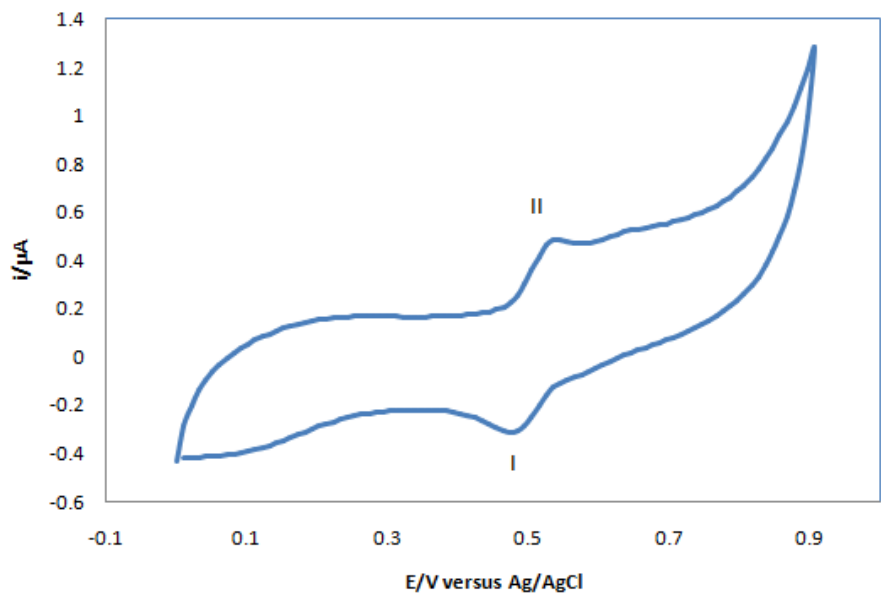
(A)

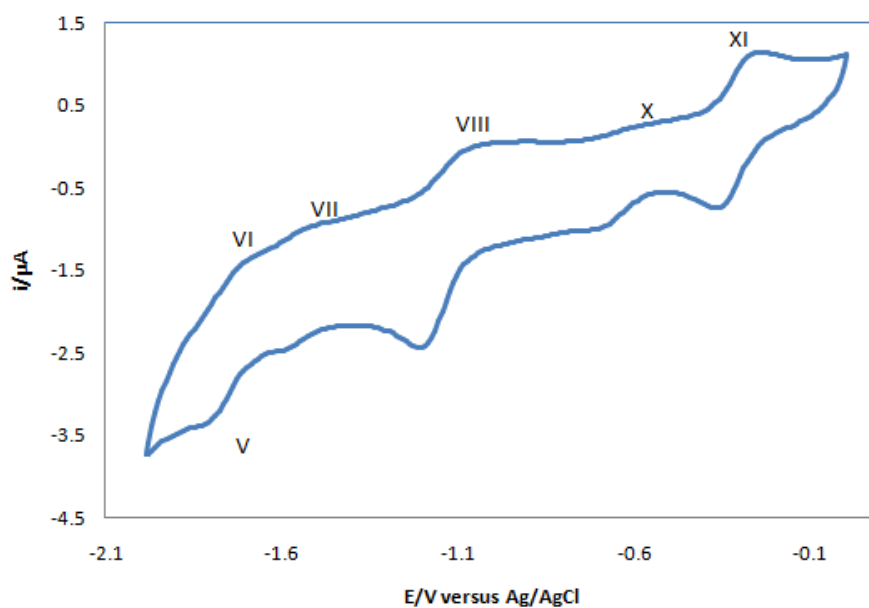


(B)

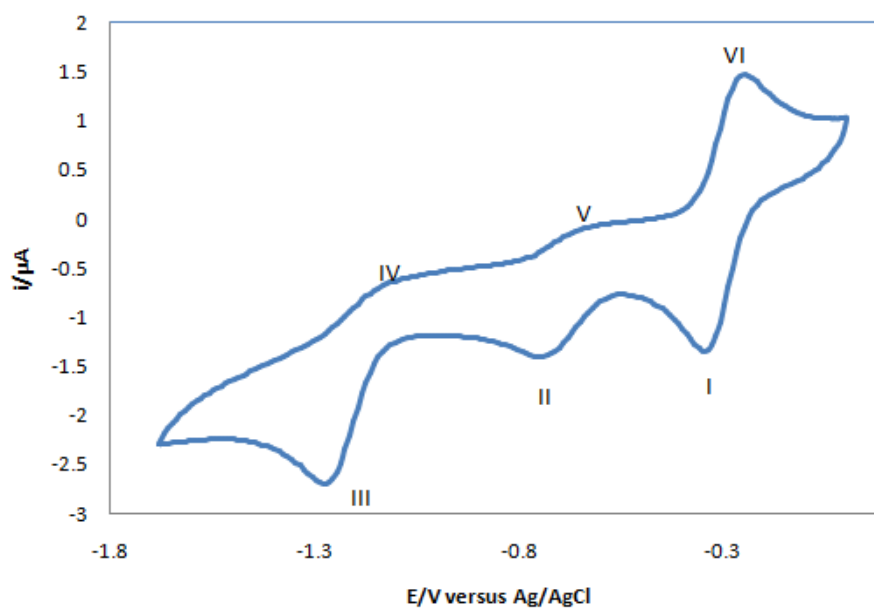


(C)





(D)



(E)

Fig. S3. Cyclic voltammetry of : (A) Tetrabutylammonium hexamolybdate, $[(C_4H_9)_4N]_2[Mo_6O_{19}]$; (B) 5,10,15,20-*tetrakis*(4-aminophenyl)porphyrin (**1**); (C) 5,10,15,20-*tetrakis*(4-aminophenyl)- porphyrinatomanganese(III) chloride (**2**); (D) hybrid compound (**1a**); (E) hybrid compound (**2a**).