

Supporting Information

**Synergistically electrocatalytic activity of nanocomposite
polyoxometalate/carbon nanotube/gold nanoparticle towards reduction of H₂O₂**

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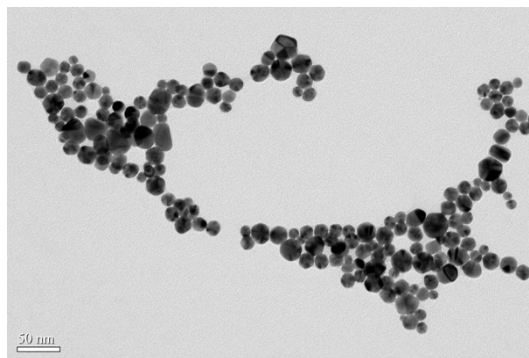


Fig. S1. TEM image of AuNPs (scale bar: 50 nm).

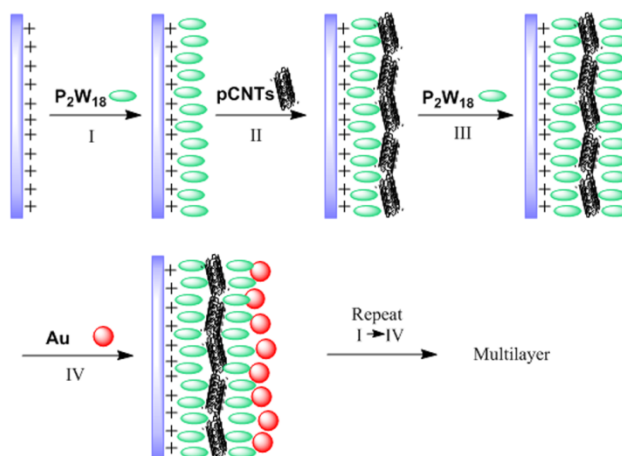


Fig. S2. Schematics of the self-assembly of a $(\text{P}_2\text{W}_{18}/\text{CNTs}/\text{P}_2\text{W}_{18}/\text{Au})_2$ film.

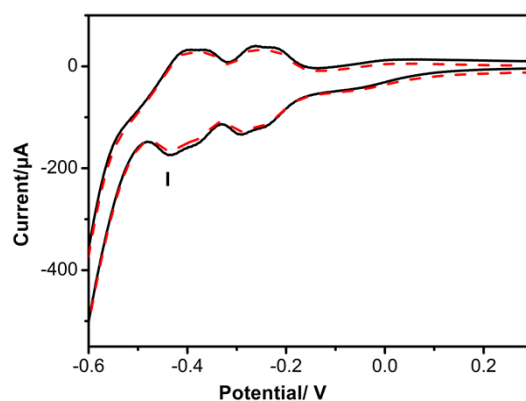


Fig. S3 CVs of the $(\text{P}_2\text{W}_{18}/\text{CNTs}/\text{P}_2\text{W}_{18}/\text{Au})_4$ modified electrode in blank solution at initial test (solid line) and tested after 50 continuous cycle scans (dashed line).

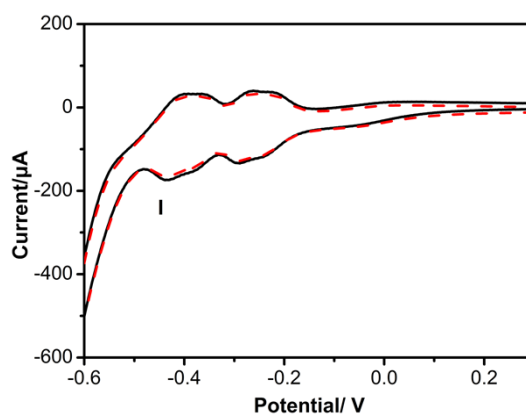


Fig. S4 CVs of the $(\text{P}_2\text{W}_{18}/\text{CNTs}/\text{P}_2\text{W}_{18}/\text{Au})_4$ modified electrode in blank solution at initial test (solid line) and tested after 20 days (dashed line).

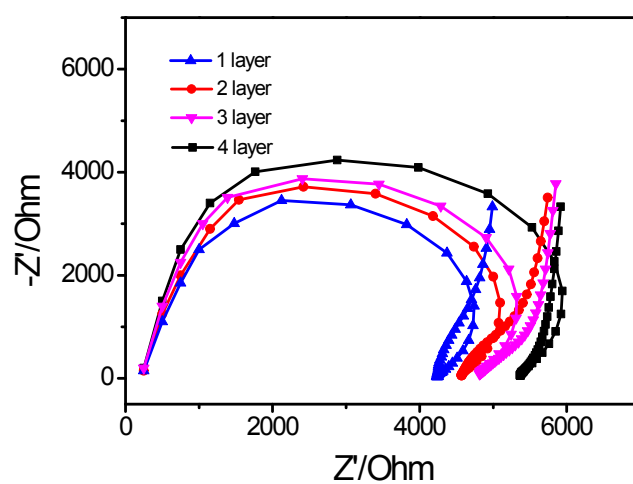


Fig. S5 EIS responses of $(P_2W_{18}/CNTs/P_2W_{18}/Au)_n$ on ITO-coated glass surface $n = 1, 2, 3, 4$.