Fig. S1 Cyclic Voltammograms of (A) single metal layer (I) Pd/p1,2-DAAQ/GC and (II) Pt/p1,2-DAAQ/GC and (B) bimetallic layer (I) Pt/Pd/p1,2-DAAQ/GC and (II) Pd/Pt/p1,2-DAAQ/GC in 1.0M NaOH at scan rate of 0.05 V s\(^{-1}\).
Fig. S2 EDX results for (A) Pd/p1,2-DAAQ/GC, (B) Pt/p1,2-DAAQ/GC, (C) Pd/Pt/p1,2-DAAQ/GC and (D) Pt/Pd/p1,2-DAAQ/GC electrodes.
(A)

(B)
**Fig. S3** Electrooxidation of (A) 0.3 M MeOH (B) 1.0 M EtOH and (C) 0.5 M EG at Pt/Pd/p1,2-DAAQ/GC nanocatalyst electrode in 1.0 M NaOH at varied sweep rates.
Fig. S4  Effect of upper potential limits on the electrooxidation of (A) 0.3 M MeOH, (B) 1.0 M EtOH and (C) 0.5 M EG in 1.0 M NaOH solution at Pt/Pd/p1,2-DAAQ/GC nanocatalyst electrode at scan rate 0.05 V s$^{-1}$. 