

One step preparation of 'ready to use' Au@Pd nanoparticle modified surface using Deep eutectic solvents and a study of its electrocatalytic properties in methanol oxidation reaction.

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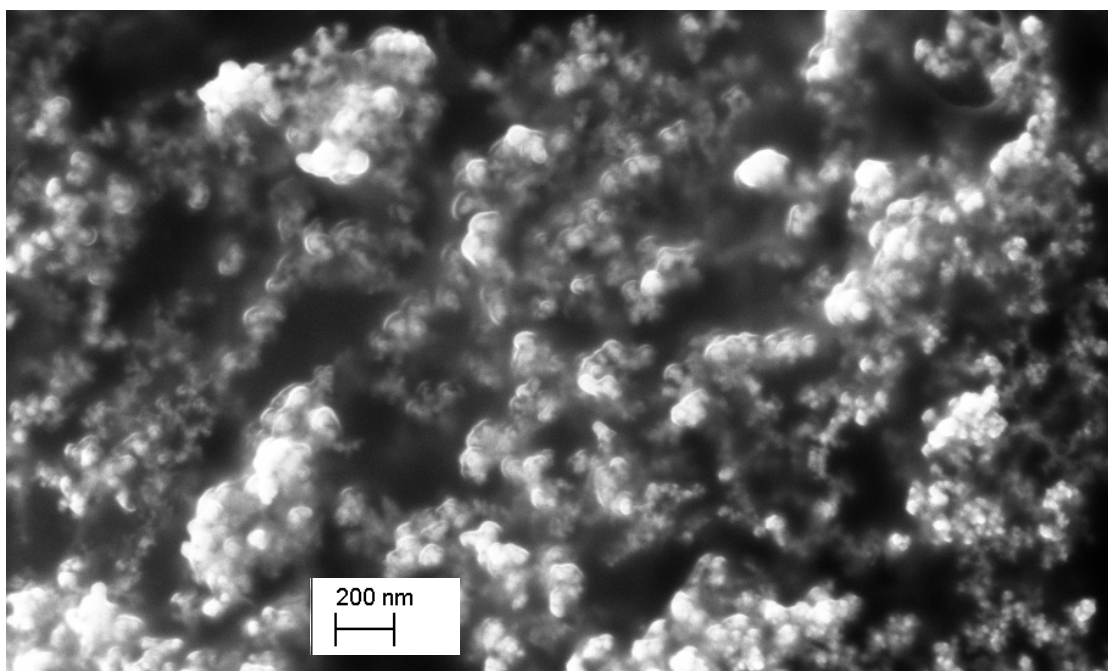


Fig.S1: SEM images of graphite rod modified with Au@Pd NPs

Table S1: Elemental composition of as prepared Au@Pd nanoparticles

Element	Weight%
C K	29
N K	12.59
O K	3.48
Cl K	7.33
Pd L	47.60
Totals	100.00

Table S2: Elemental composition of electrochemically pretreated Au@Pd nanoparticles

Element	Weight%
C K	60.81
O K	0.43
Cl K	1.18
Pd L	34.94
Au M	2.64

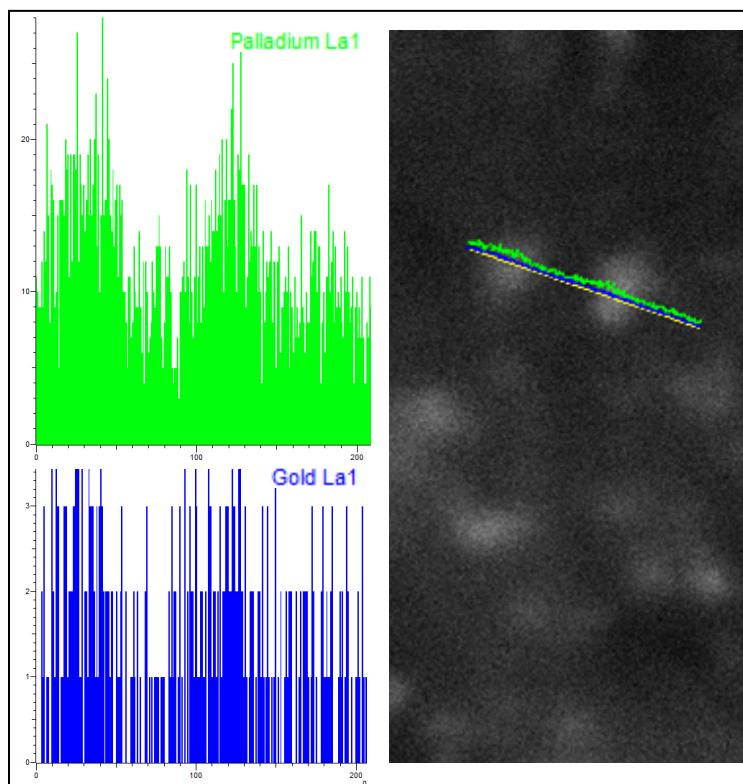


Fig.S2: EDAX line scan of electrochemically treated Au@Pd NPs on graphite

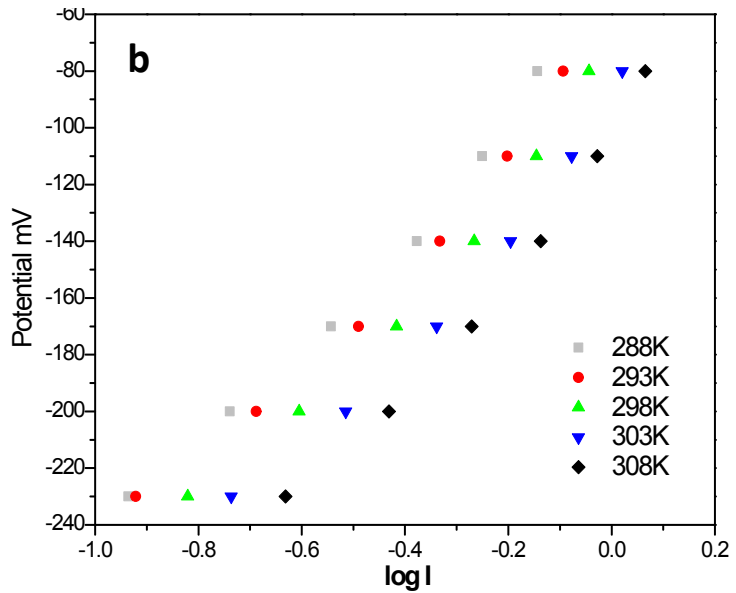
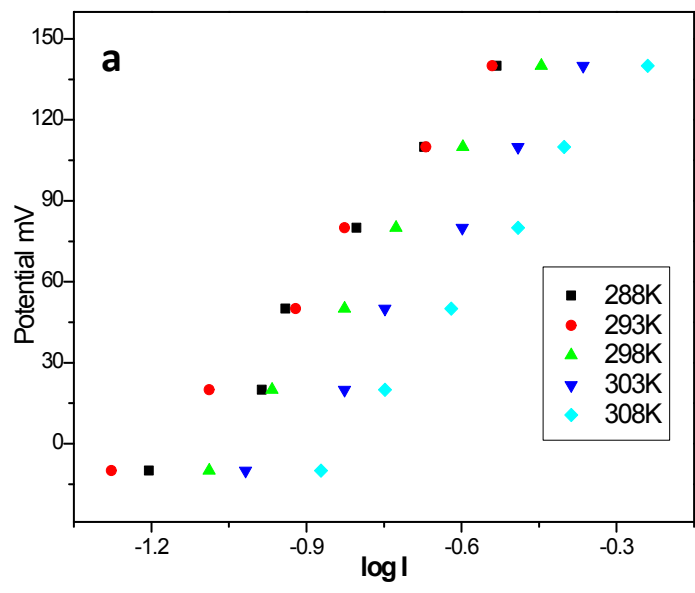


Fig.S3:Tafel plots of (a) Au NP (b)PdNP modified graphite rod in 2M MeOH / 0.5M NaOHVs Hg/HgO/1M NaOH at different temperature ranges

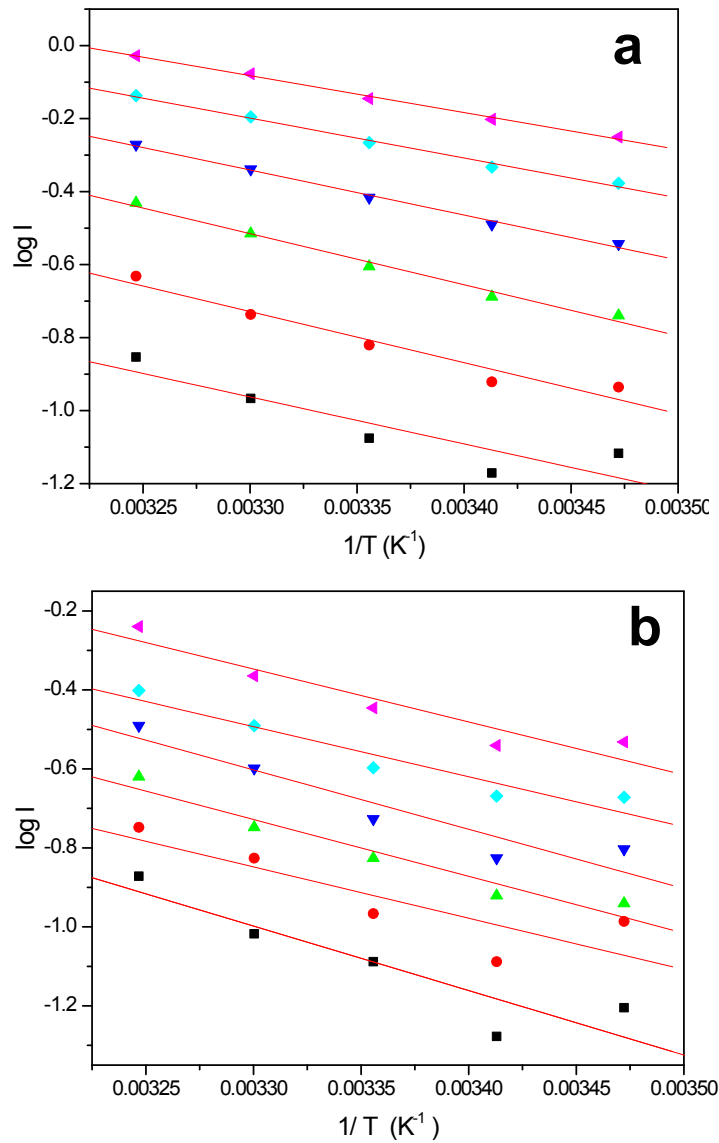


Fig.S4: Arrhenius plots for (a) Pd NP (b) Au NP modified graphite rod in 2M MeOH / 0.5M NaOH Vs Hg/HgO/1M NaOH at different potential ranges