

Electronic Supplementary Information

A polyoxometalate-assisted approach for synthesis of Pd nanoparticles on graphene nanosheets: Synergistic behaviour for enhanced electrocatalytic activity

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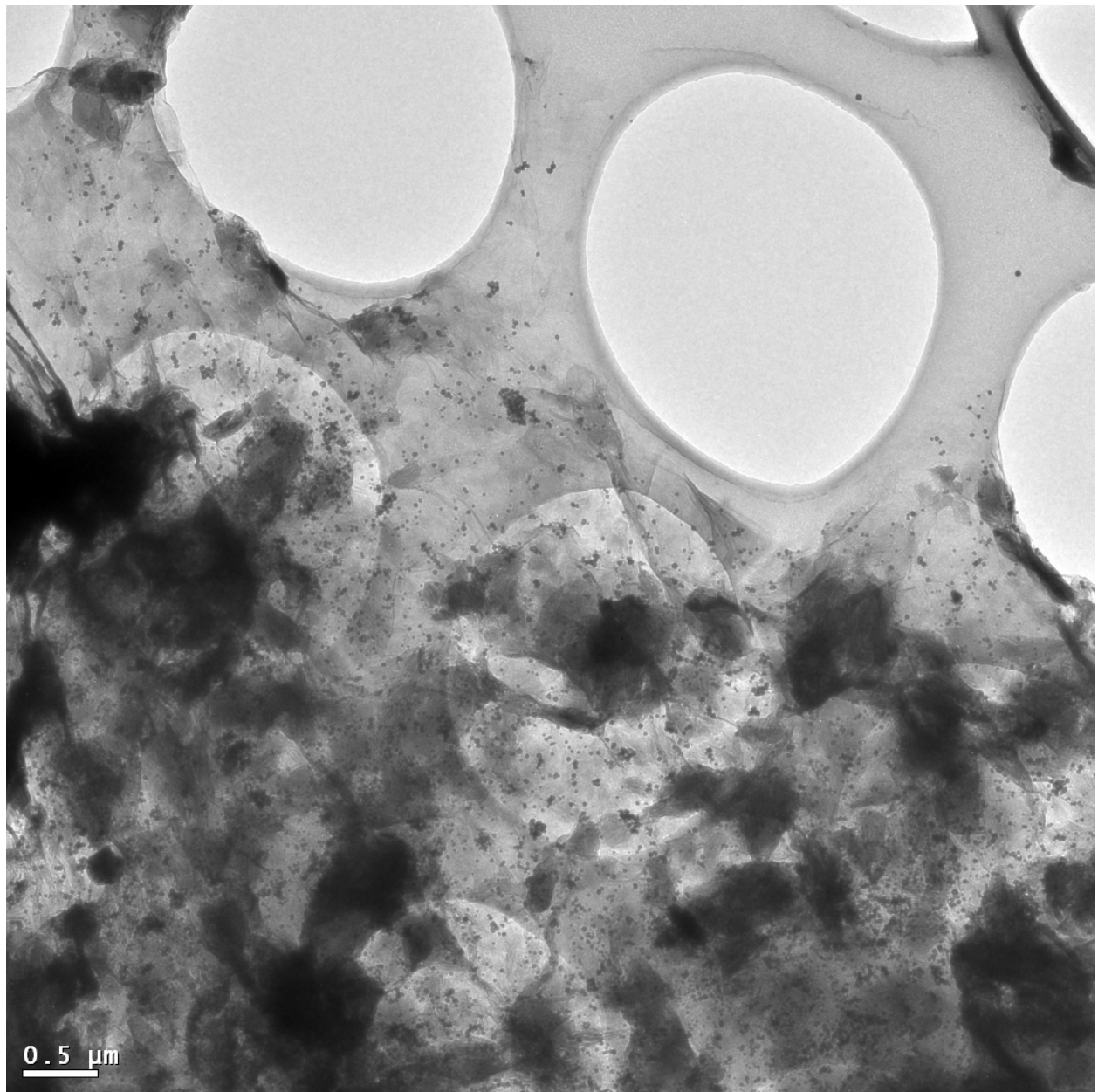
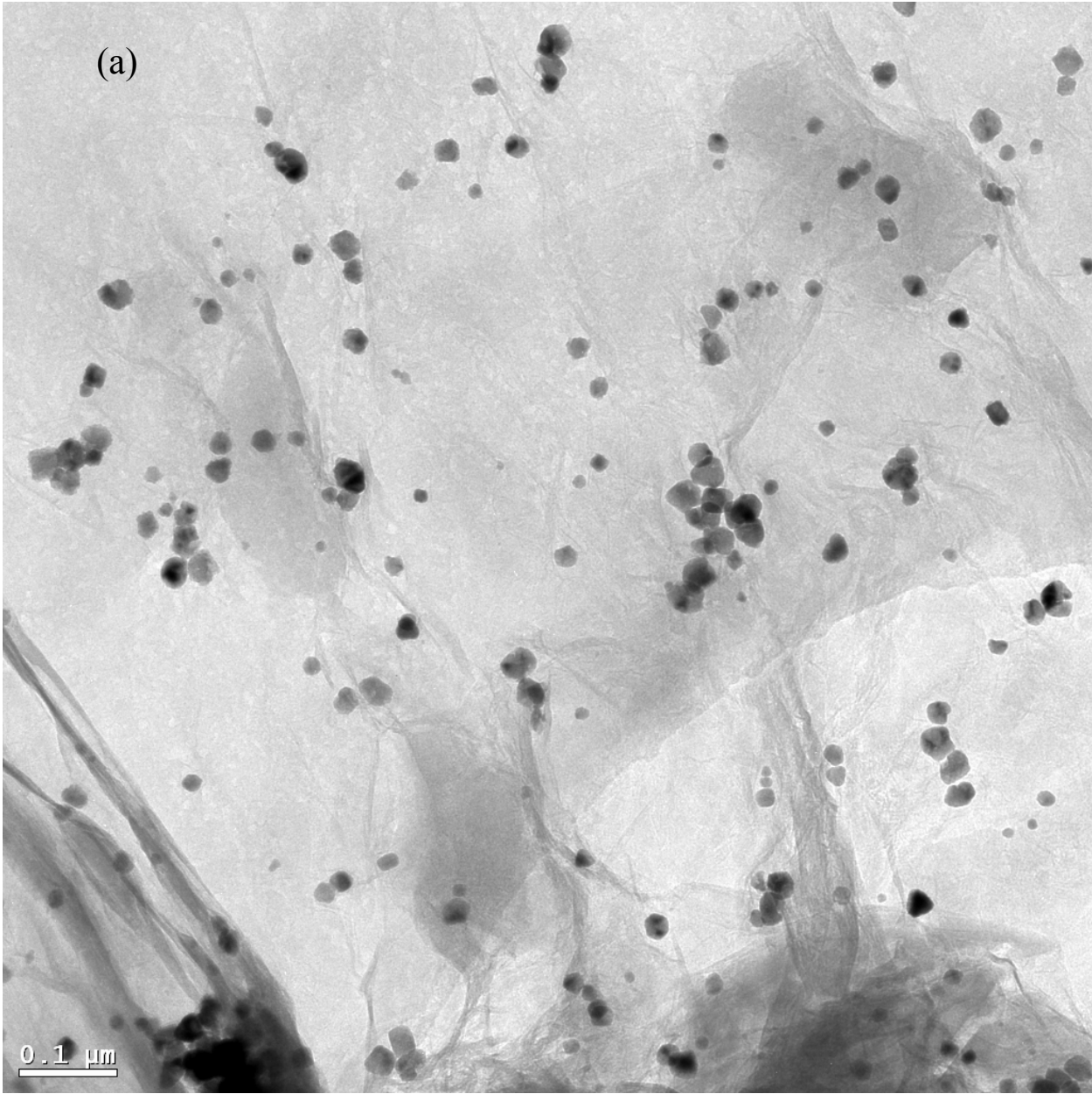
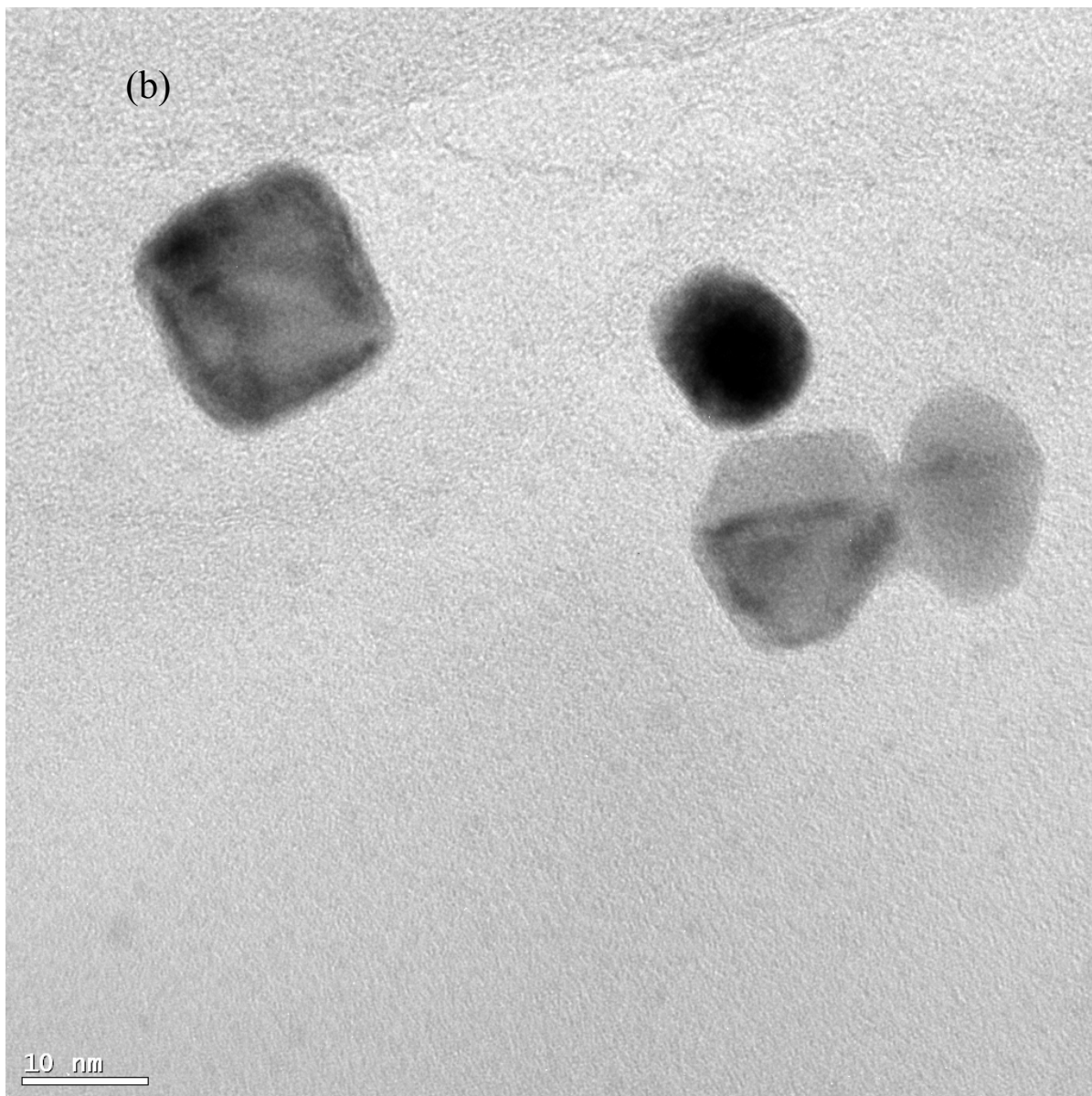
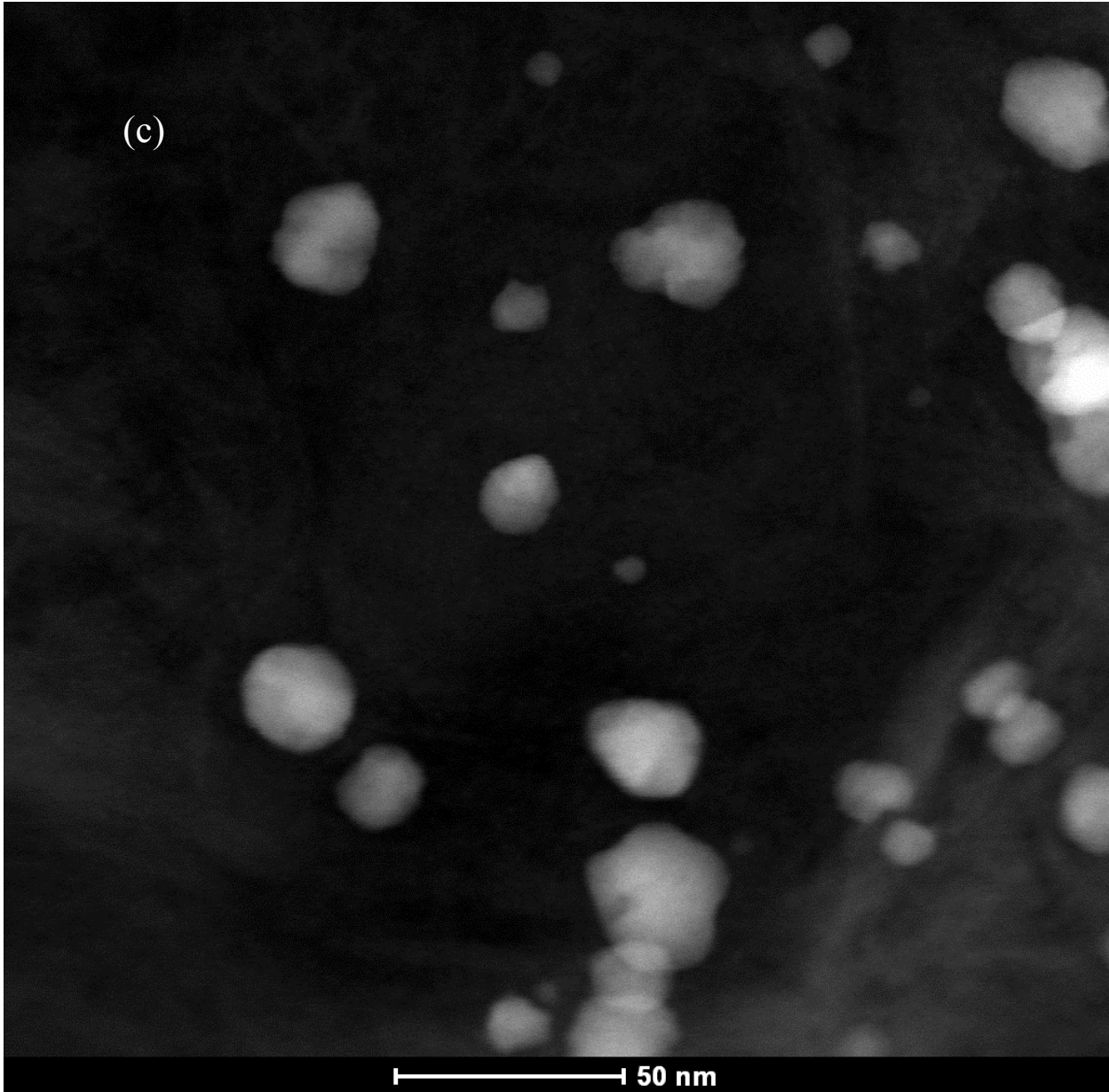


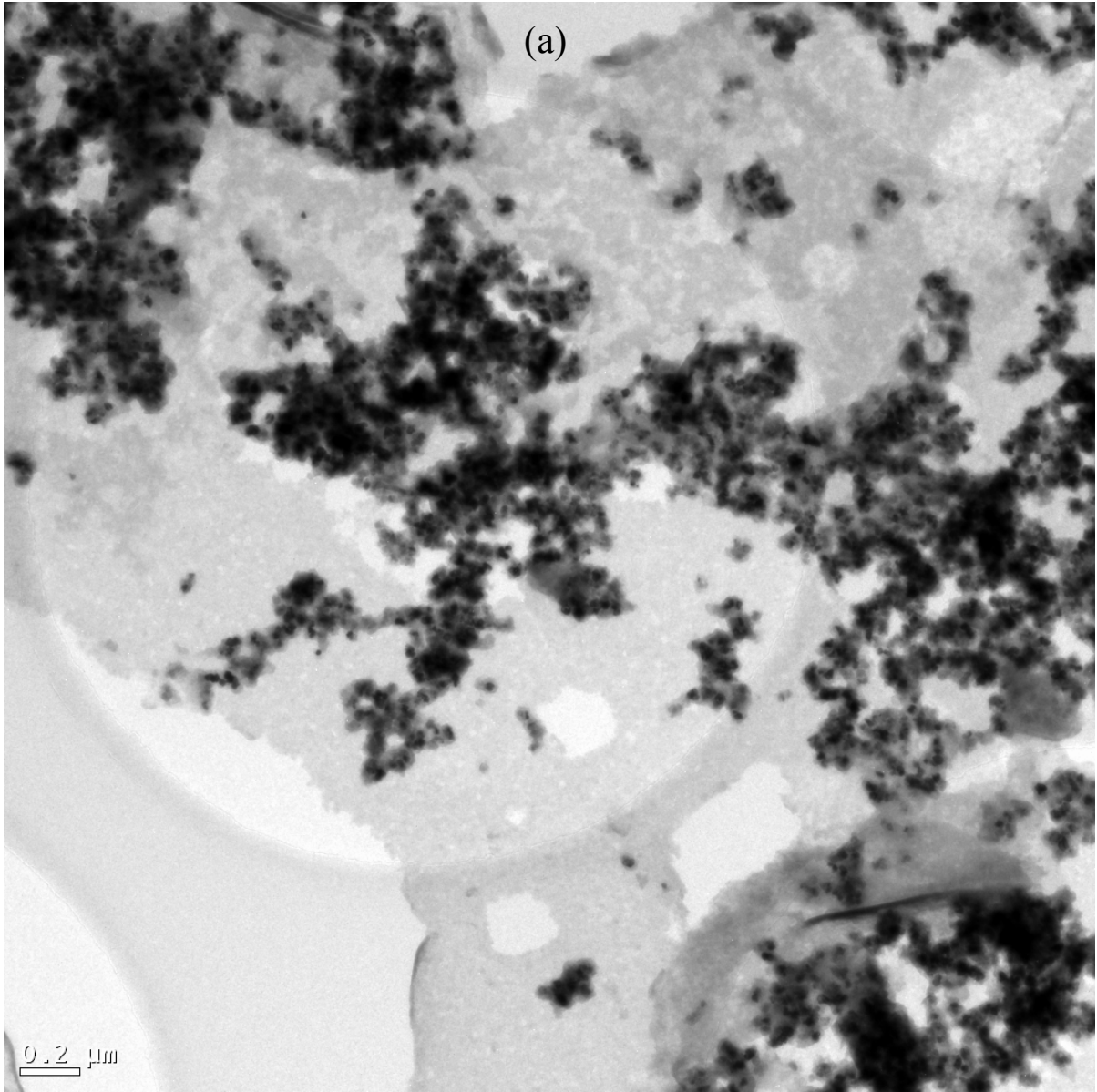
Fig. S1: TEM image of 30% Pd/PMo₁₂/GNSs.



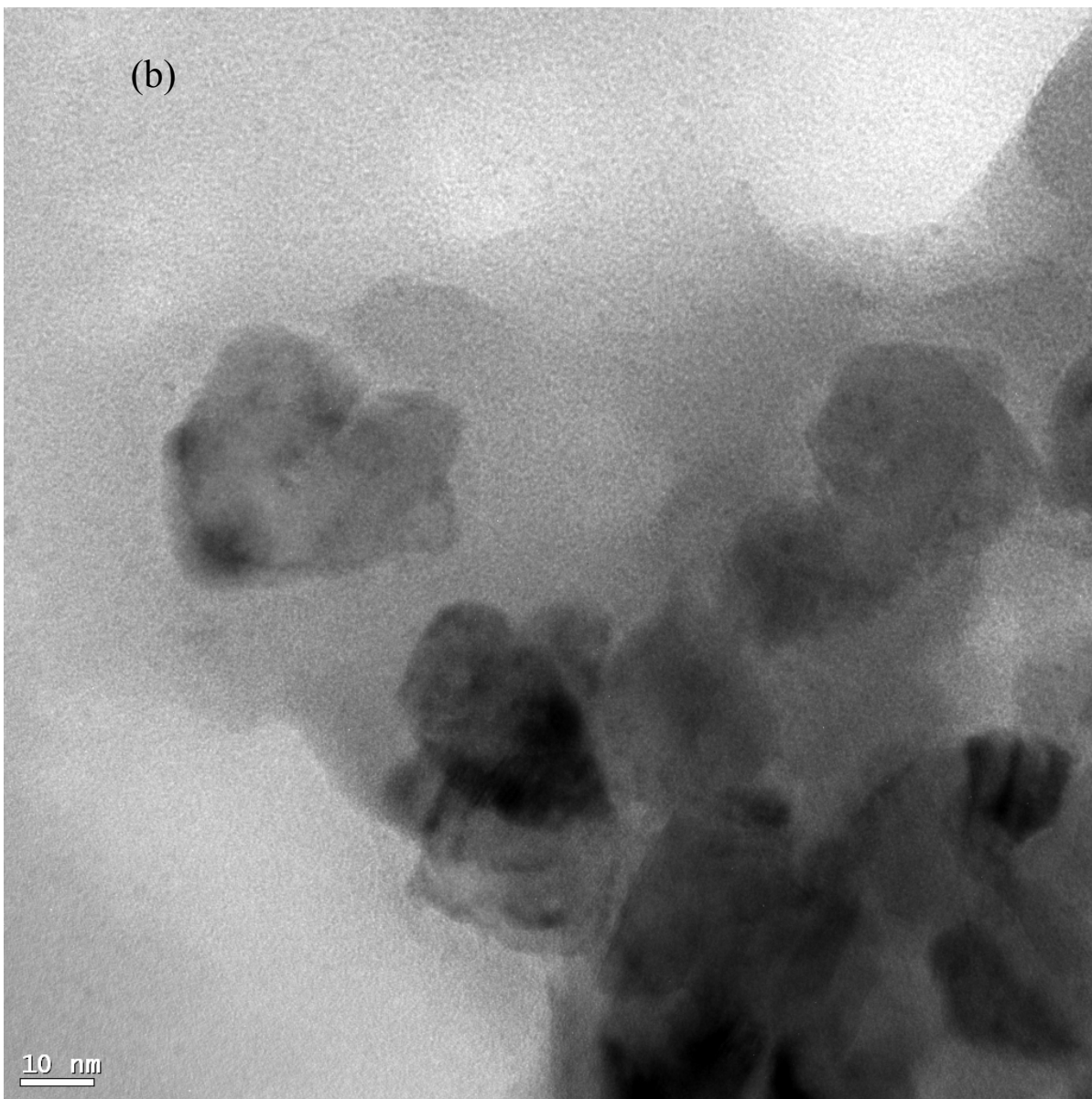
(b)



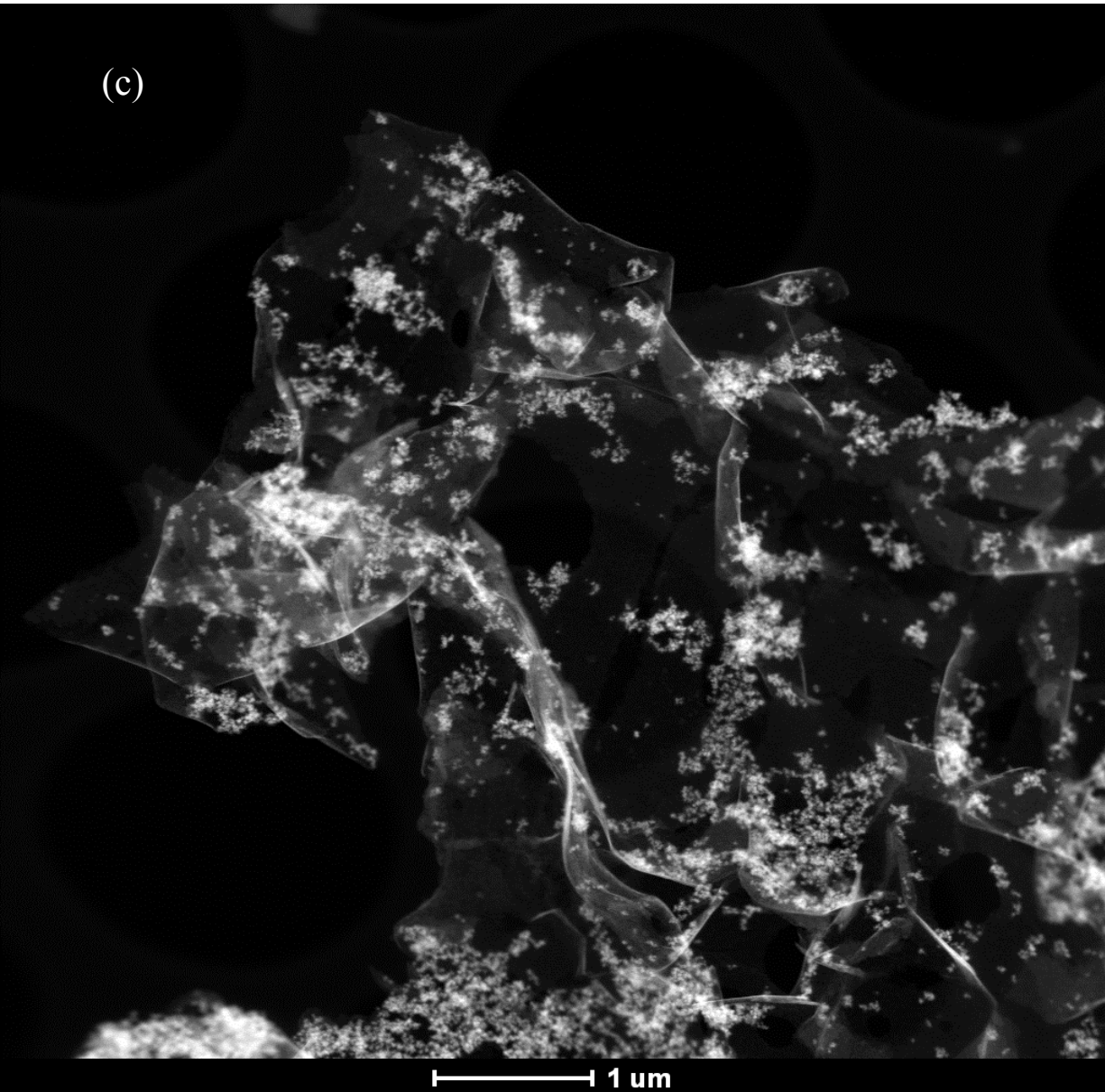




(b)

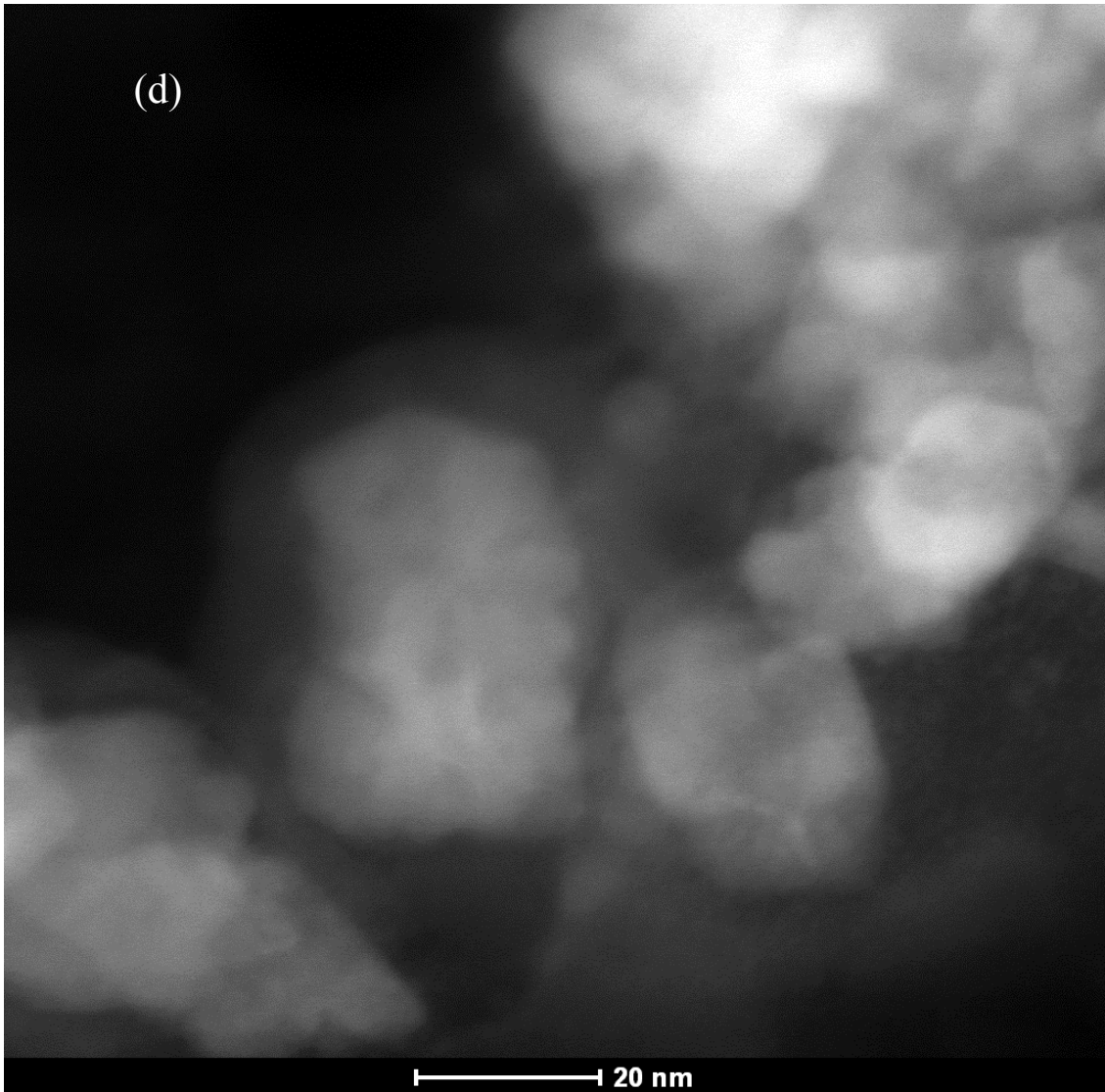


(c)



1 μm

(d)



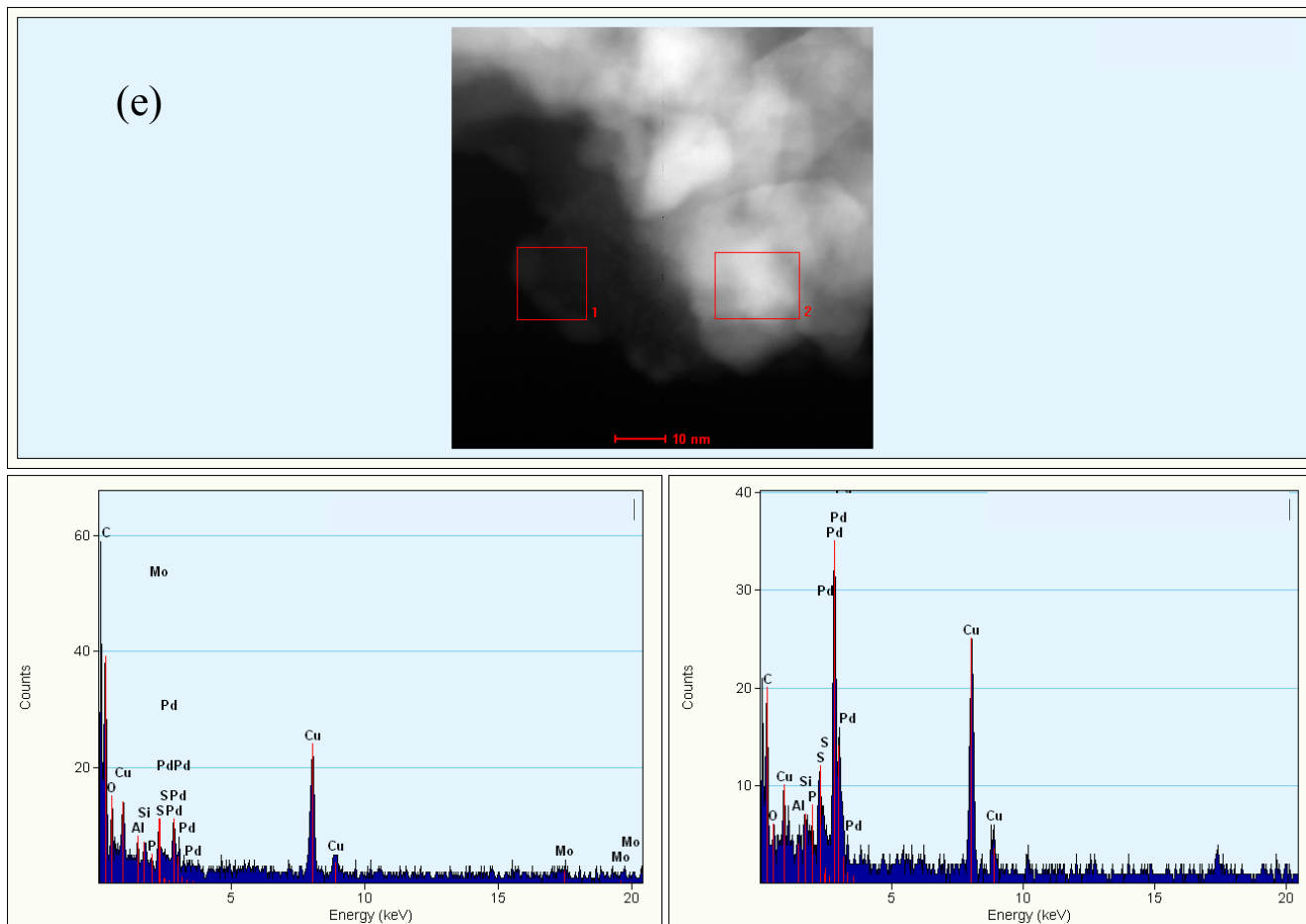
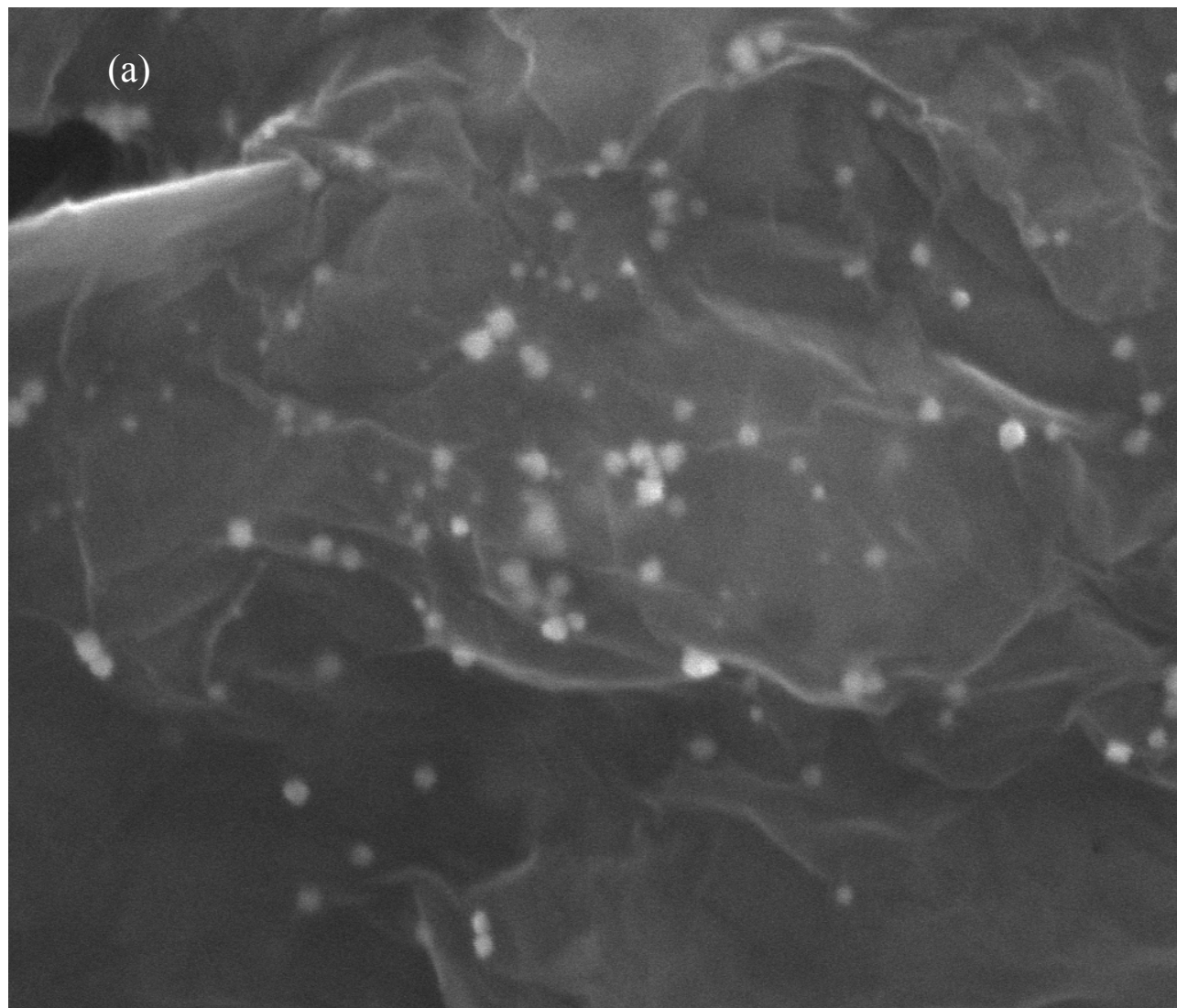
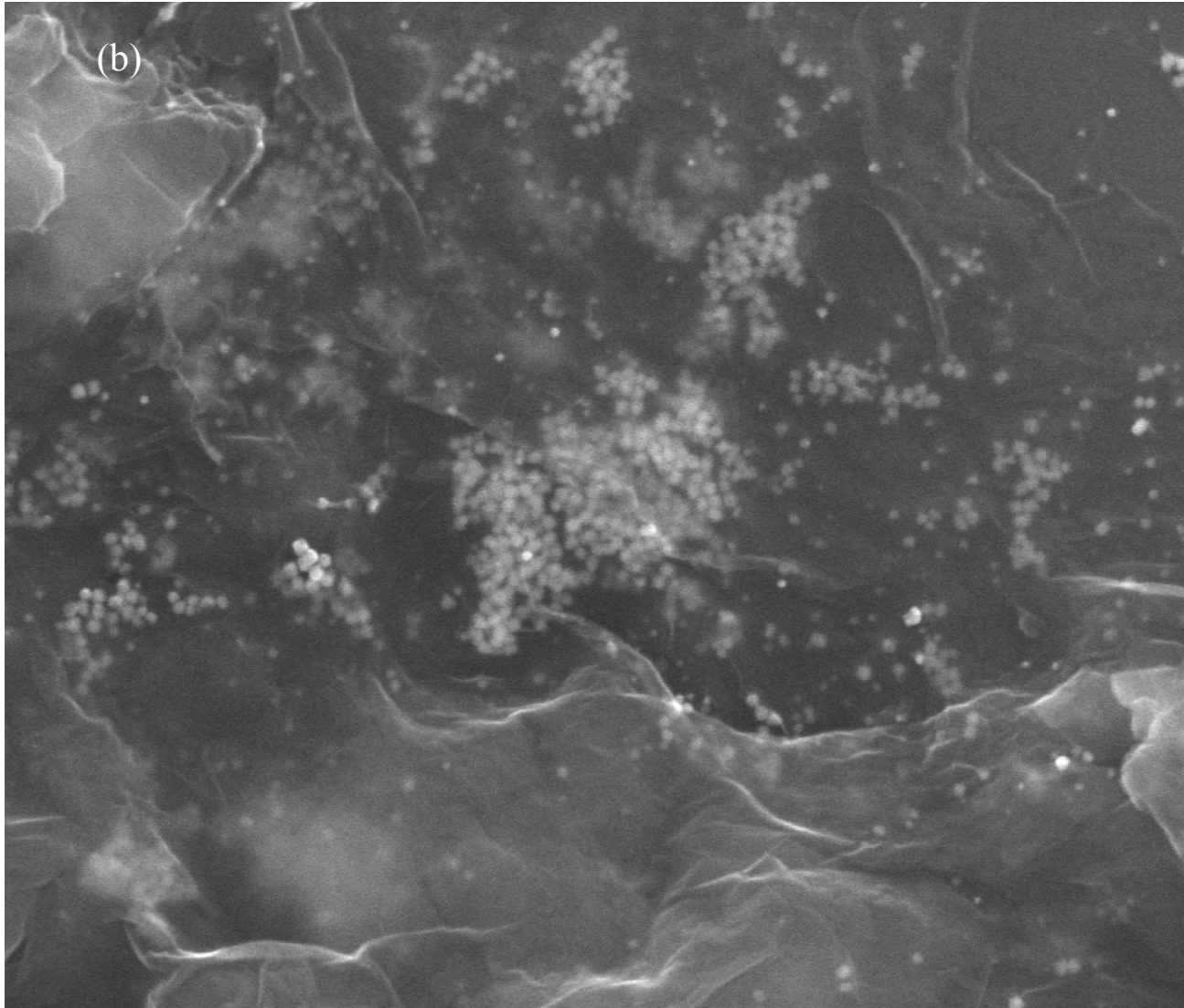


Fig. S3: TEM(a), HRTEM (b) and HAADF-STEM (c, d, e) and related EDS of 45% Pd/PMo₁₂/GNSs.



spot	HV	mag	det	tilt	HFW	mode	WD	
2.5	10.00 kV	240 000 x	ETD	0 °	1.24 μm	SE	10.4 mm	← 300 nm →



spot	HV	mag	det	tilt	HFW	mode	WD	— 500 nm —
2.5	10.00 kV	120 000 x	ETD	0 °	2.49 μm	SE	10.4 mm	

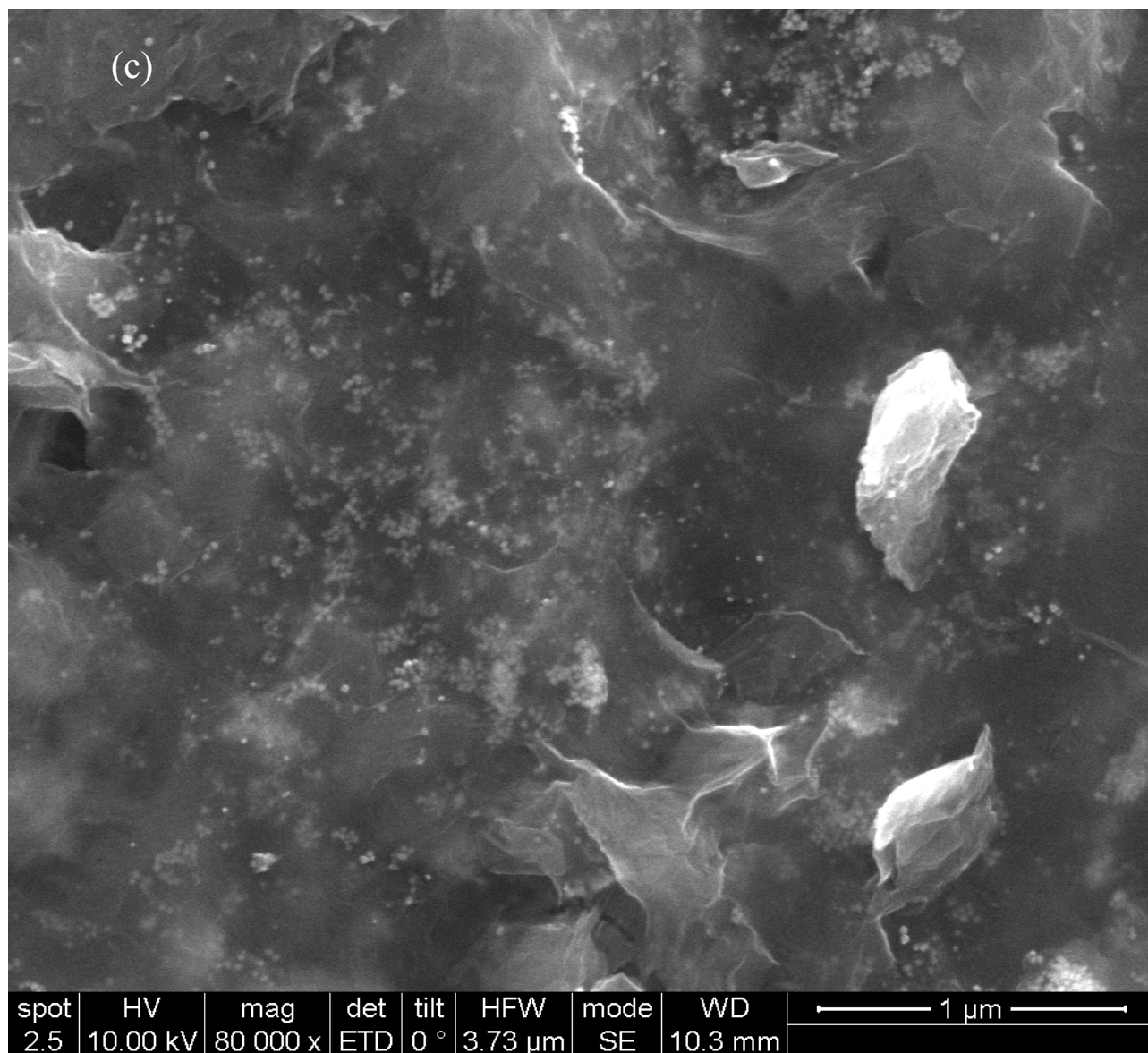


Fig. S4: SEM images of 15% (a), 30% (b) and 45% (c) of Pd/PMo₁₂/GNSs nanohybrids.

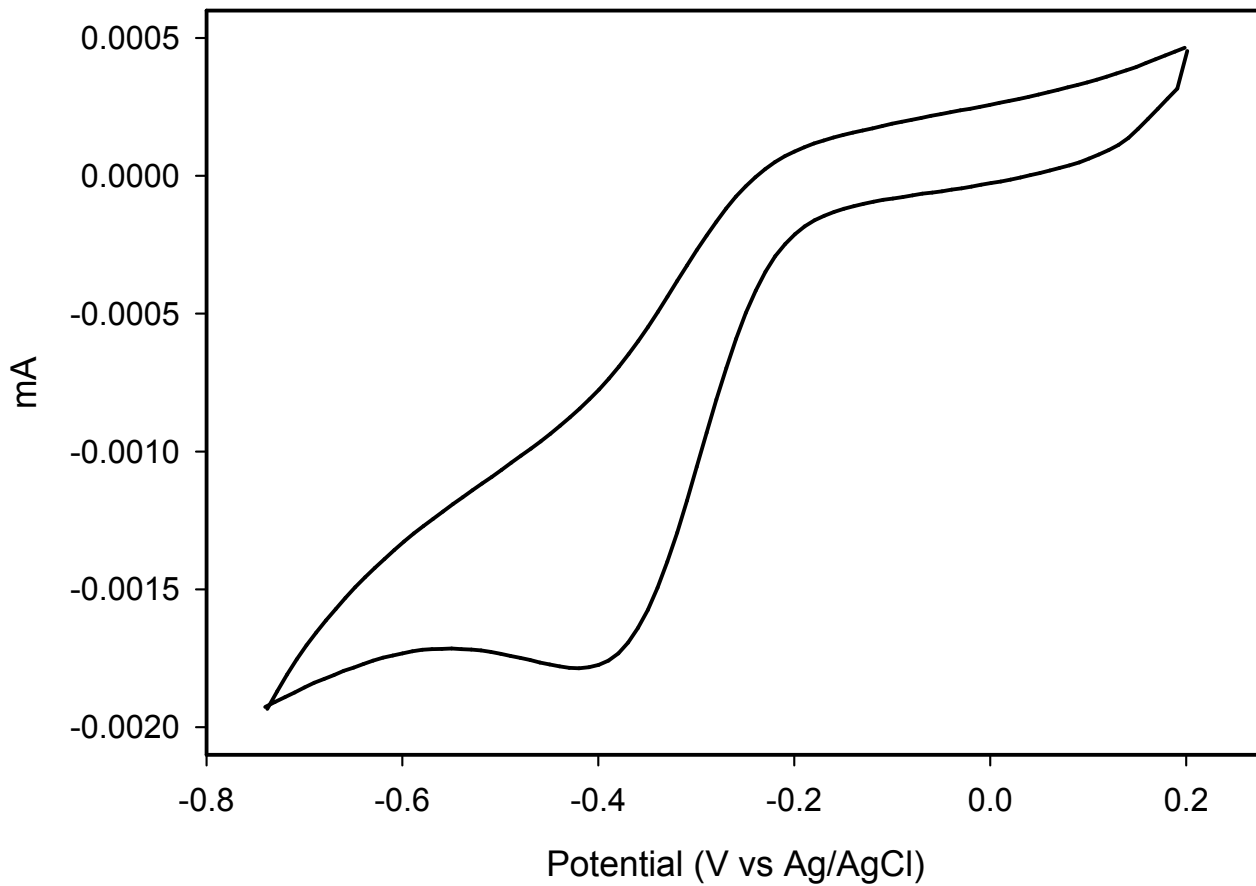


Fig. S5: Cyclic voltammogram (CV) in 1.0 M NaOH with 1.0 M ethanol, Scan rate: 50mVs^{-1} for grapheme oxide (GO).