

FIGURES

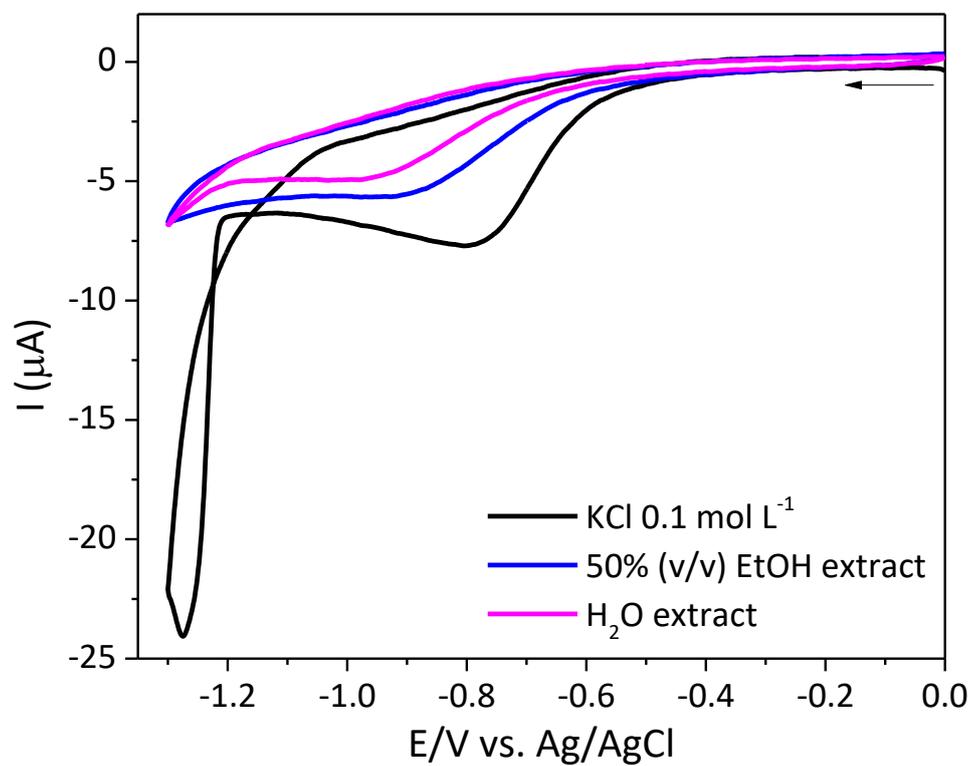


Fig. 1

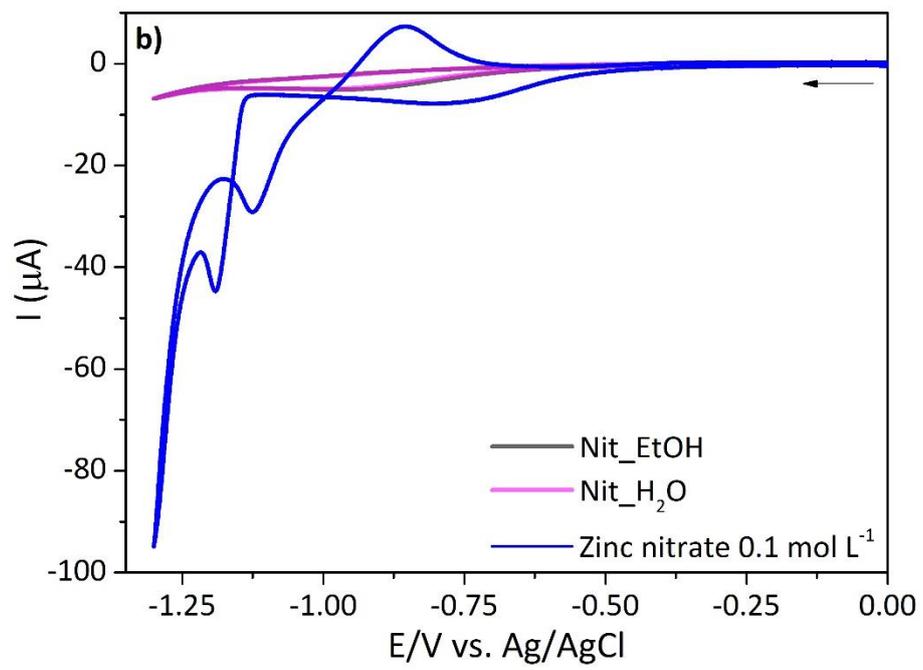
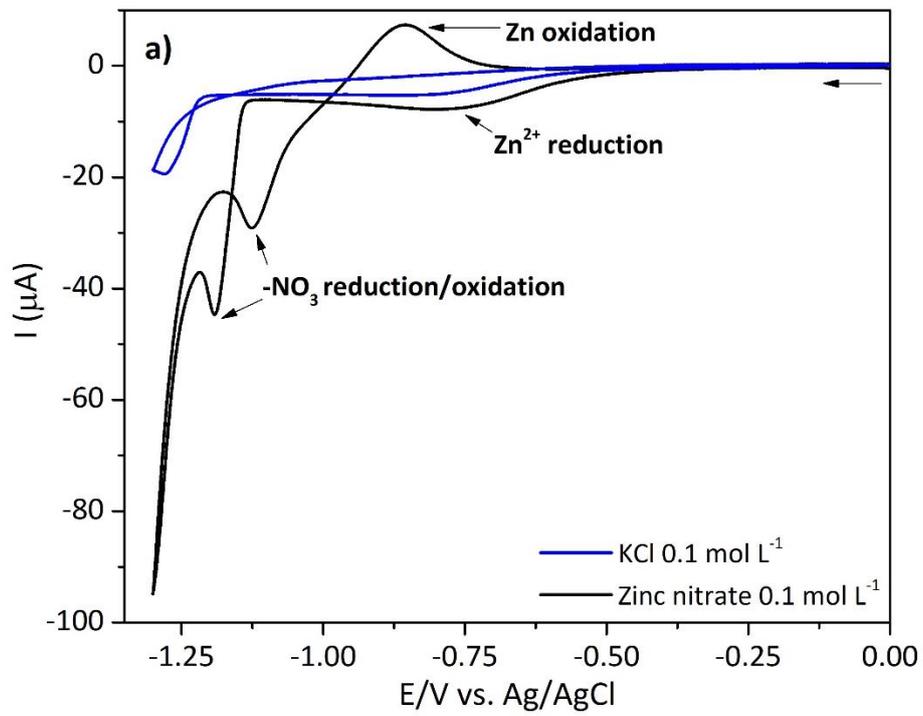


Fig. 2

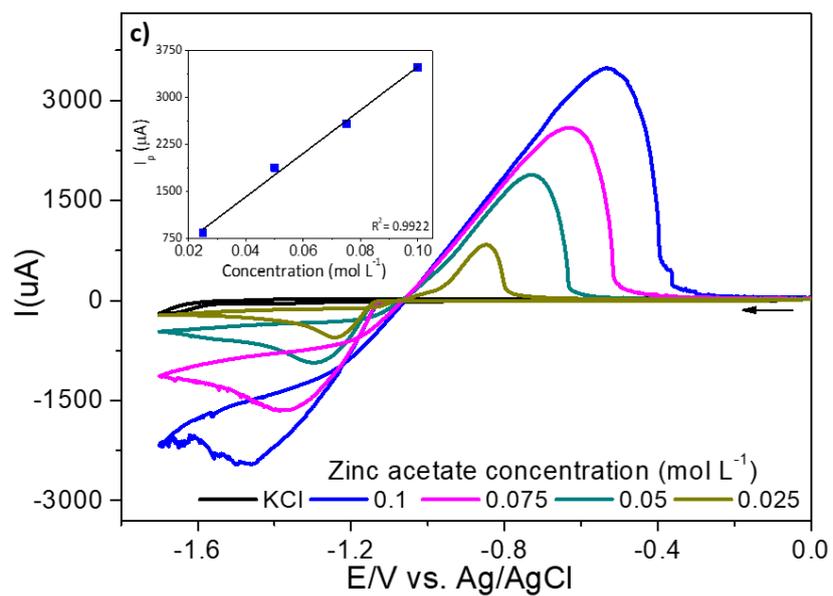
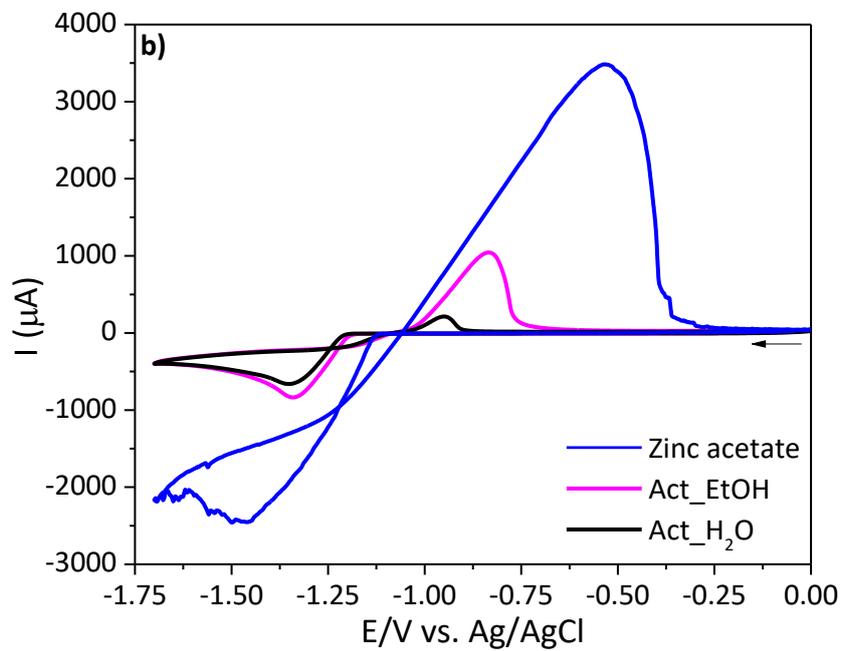
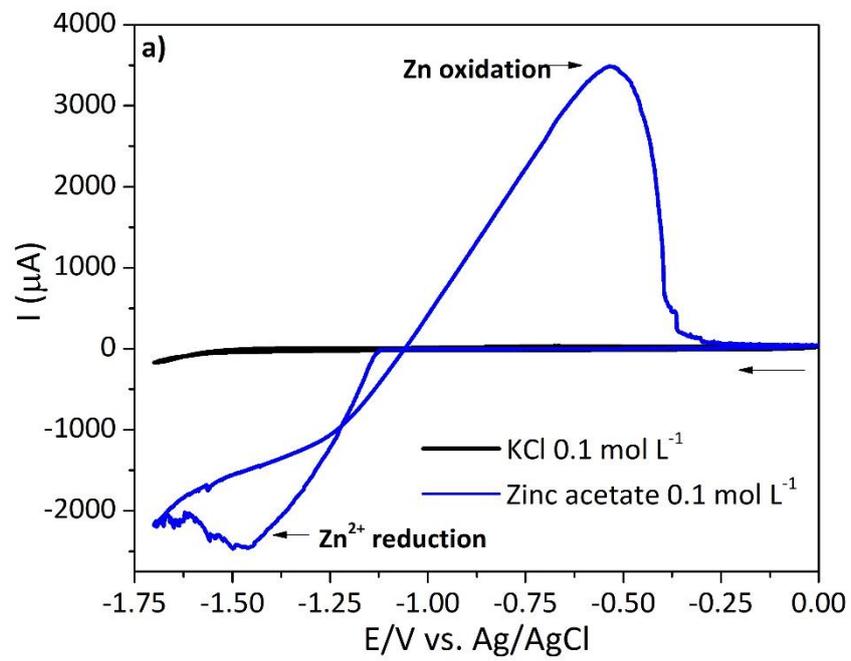
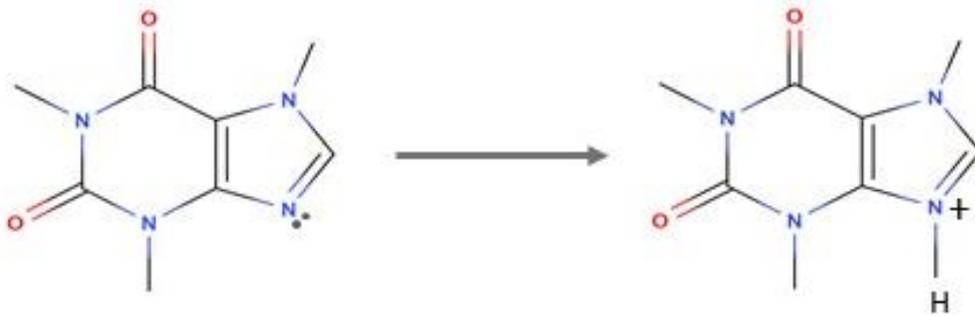
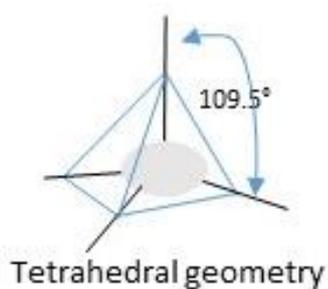


Fig. 3

Step 1: Formation of conjugated acid of methylxanthines



Step 2: Formation of metal complex with antioxidant and water ligands



Step 3: Complex degradation and ZnONPs formation

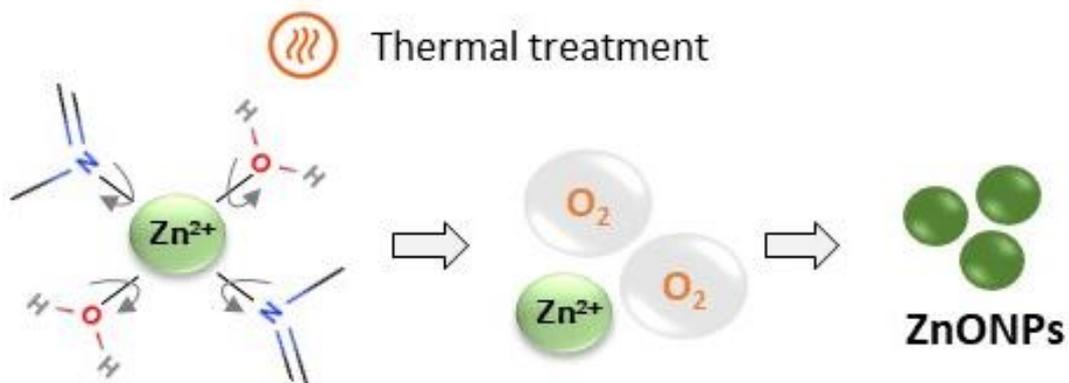


Fig. 4

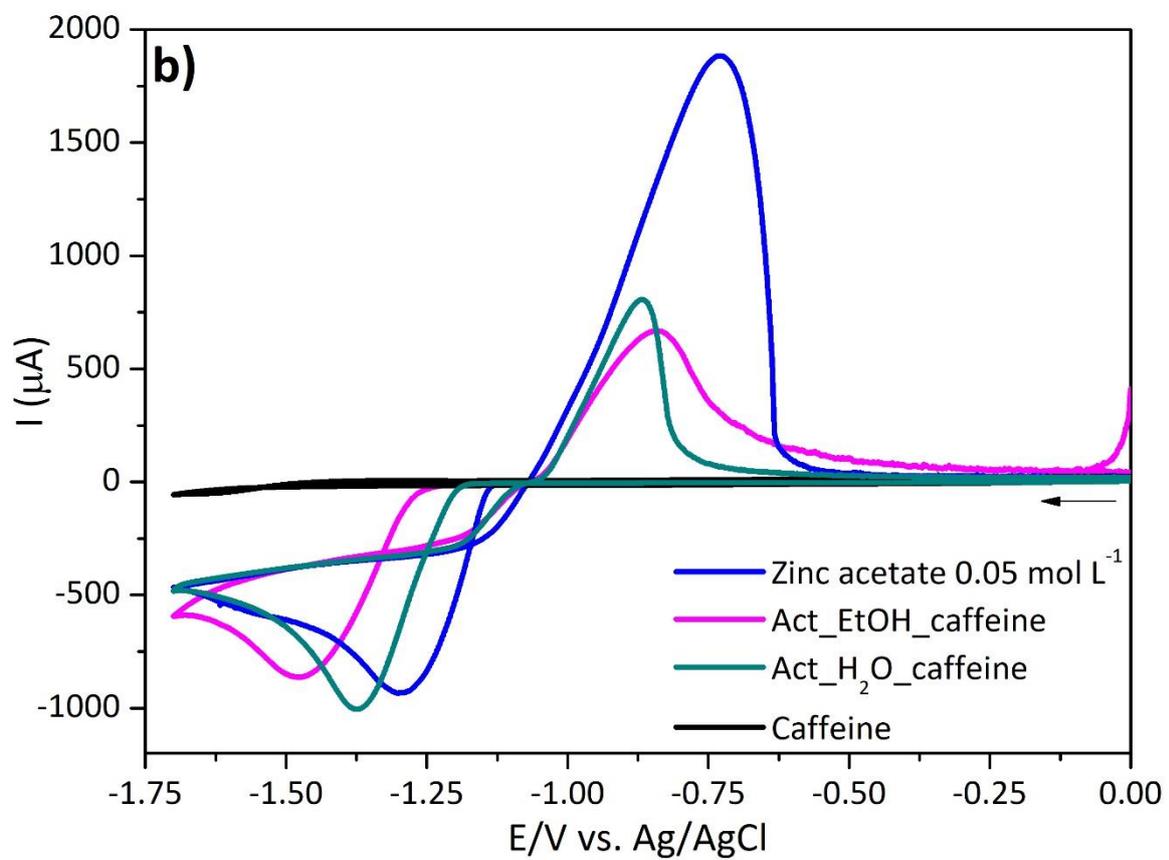
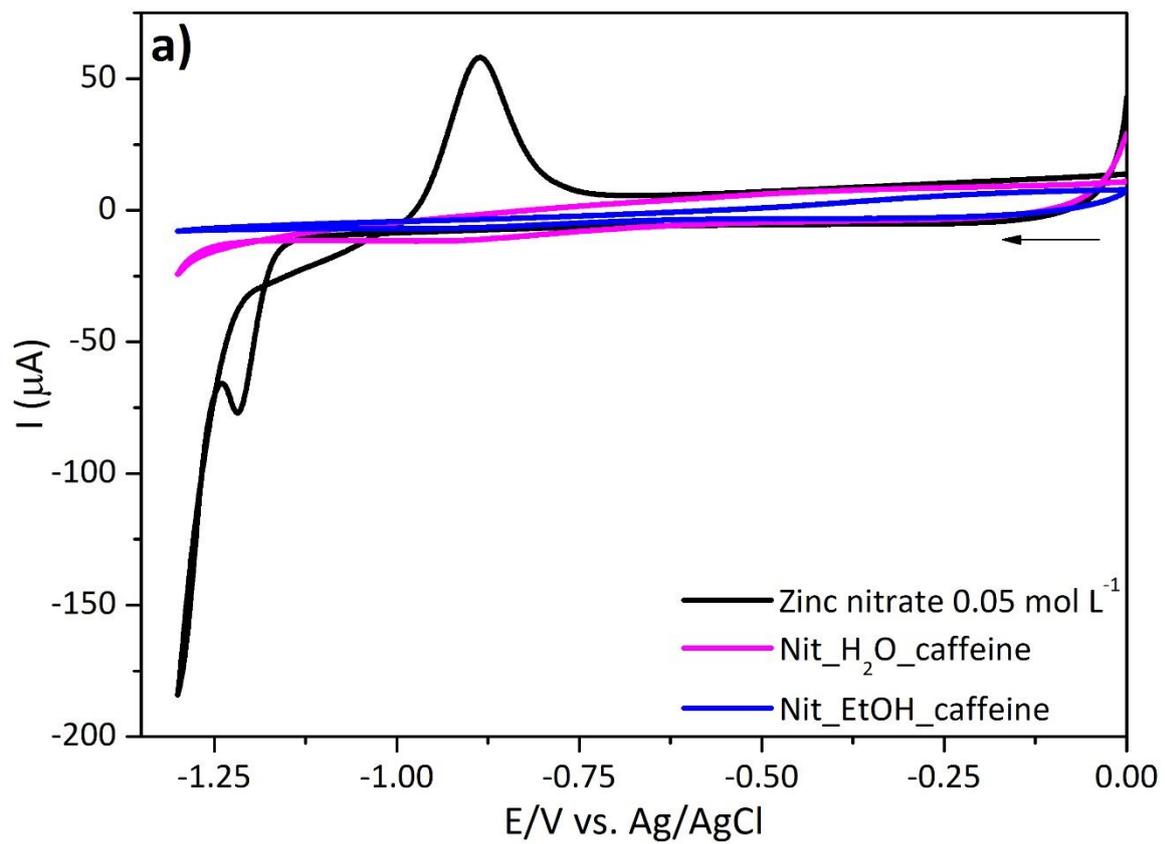


Fig. 5

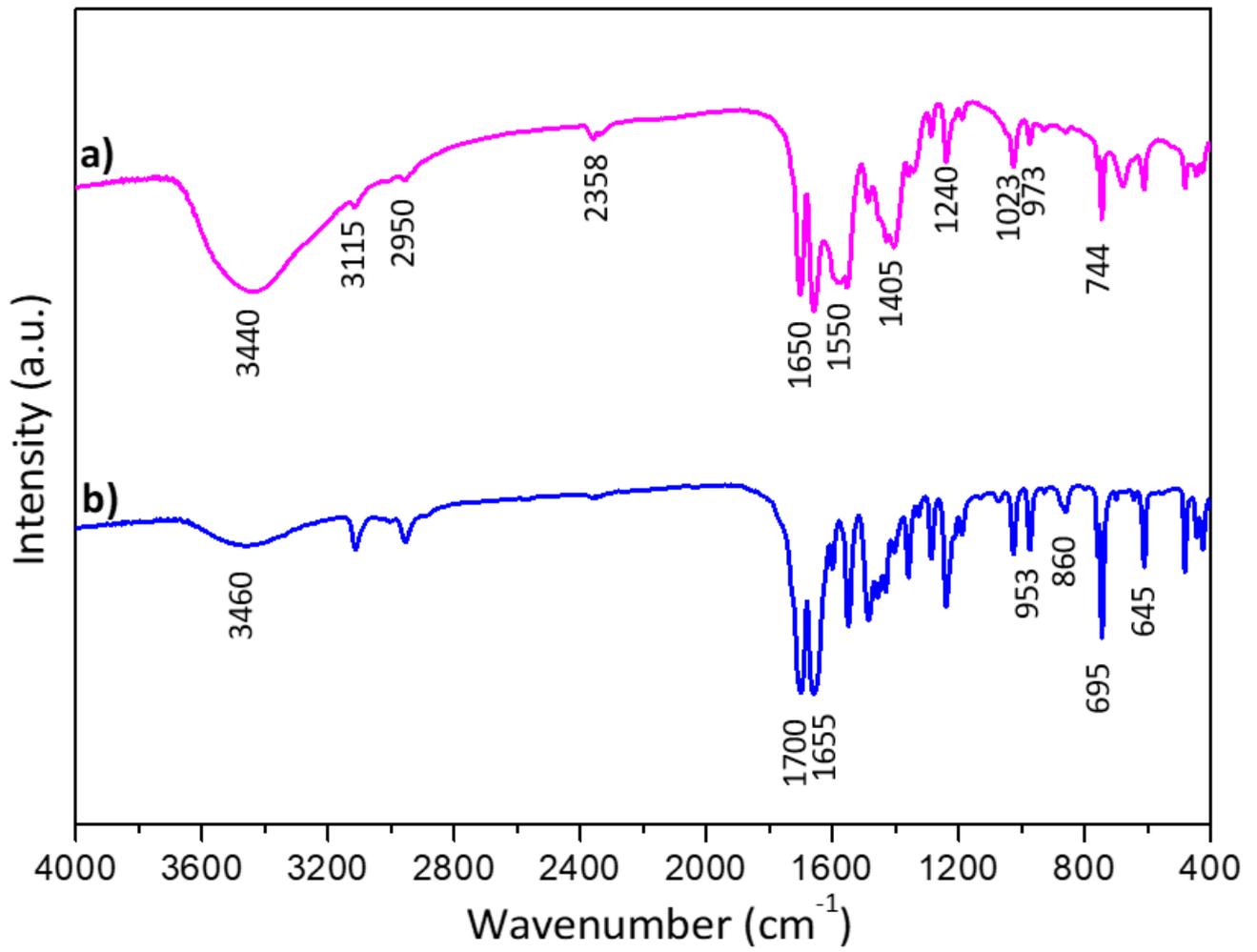


Fig. 6

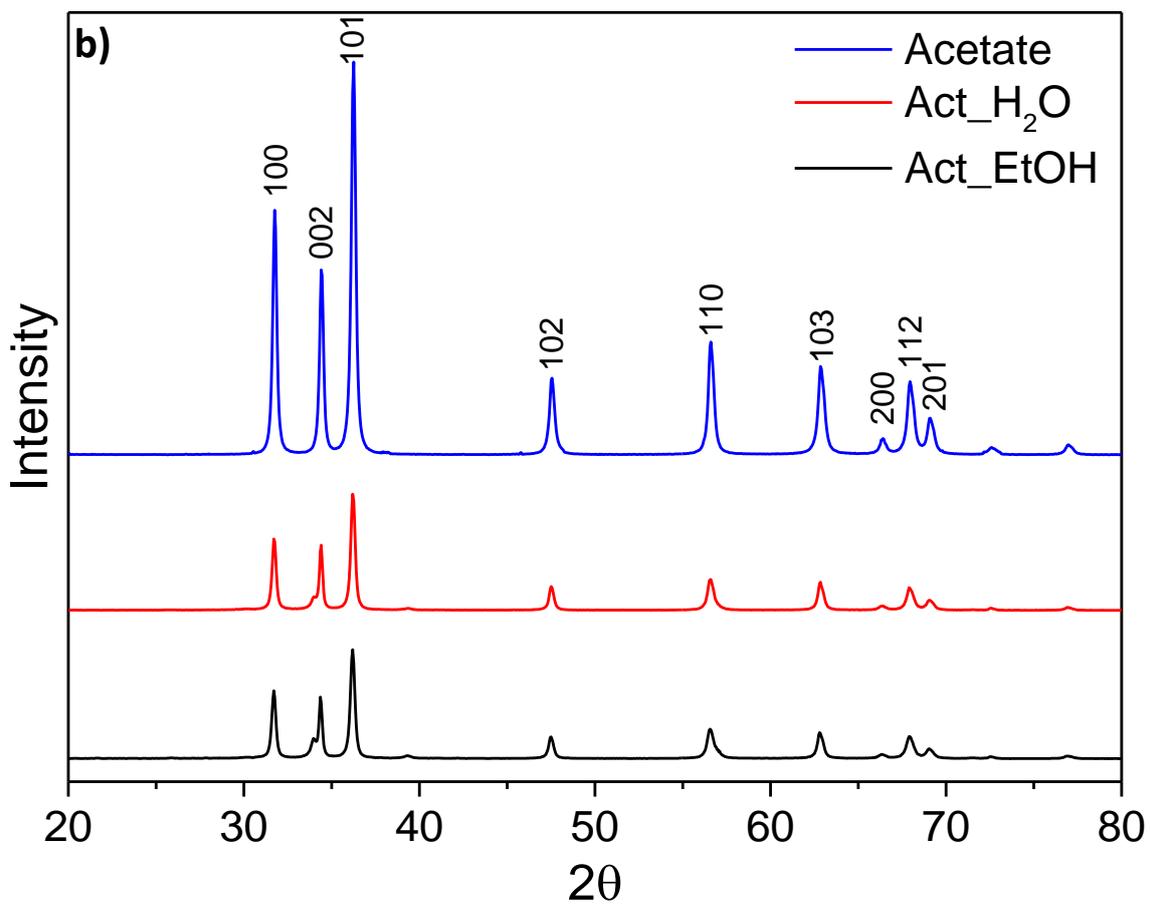
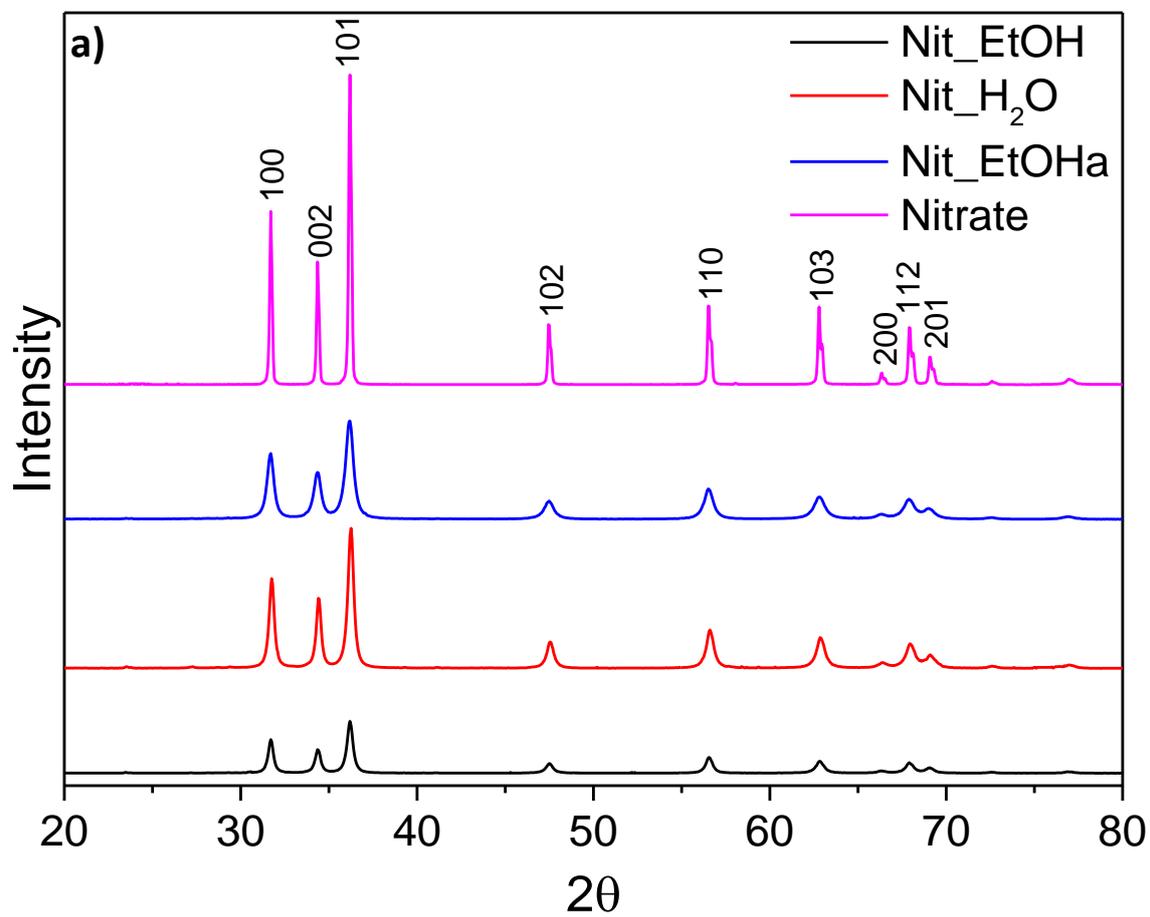


Fig. 7

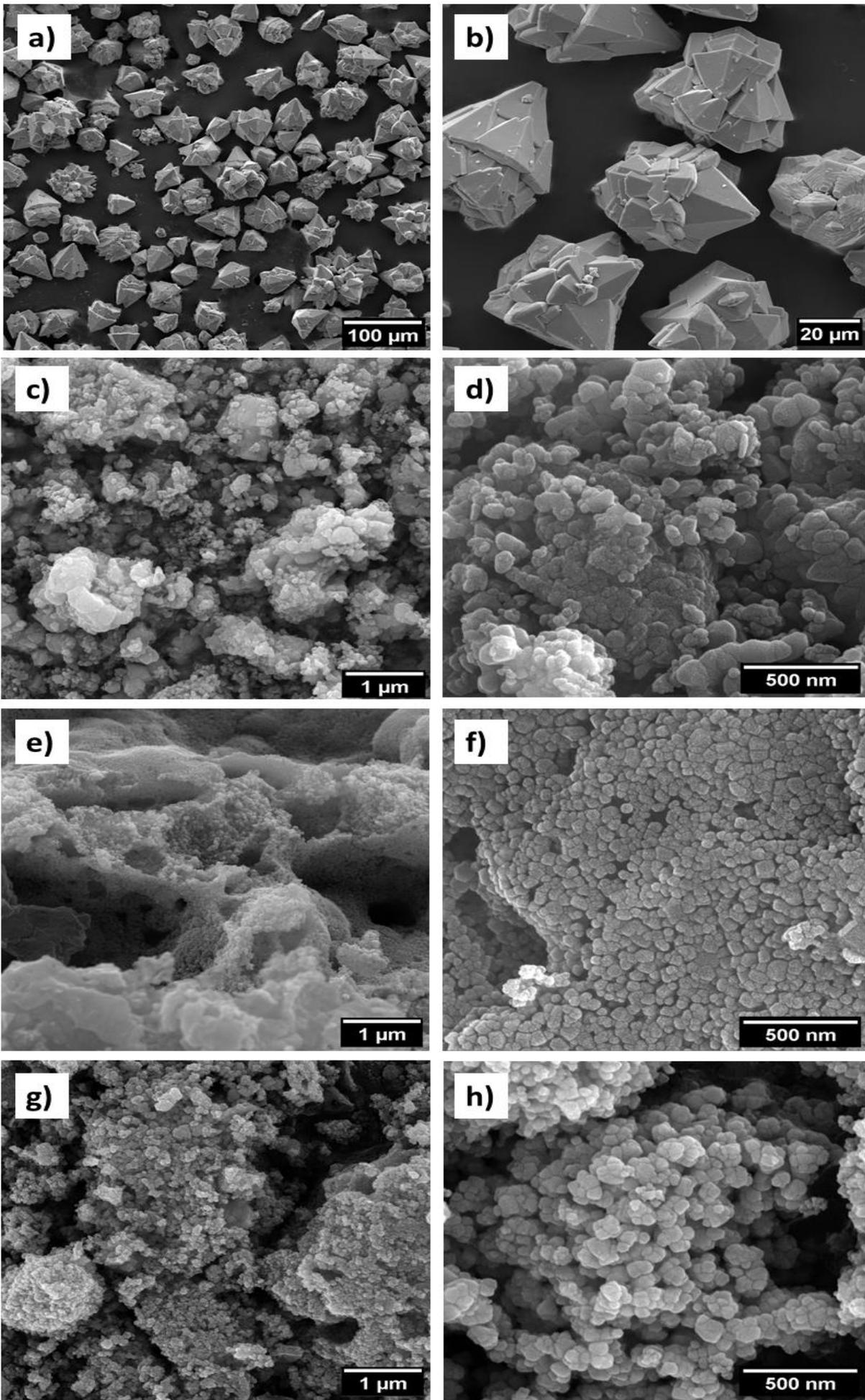


Fig. 8

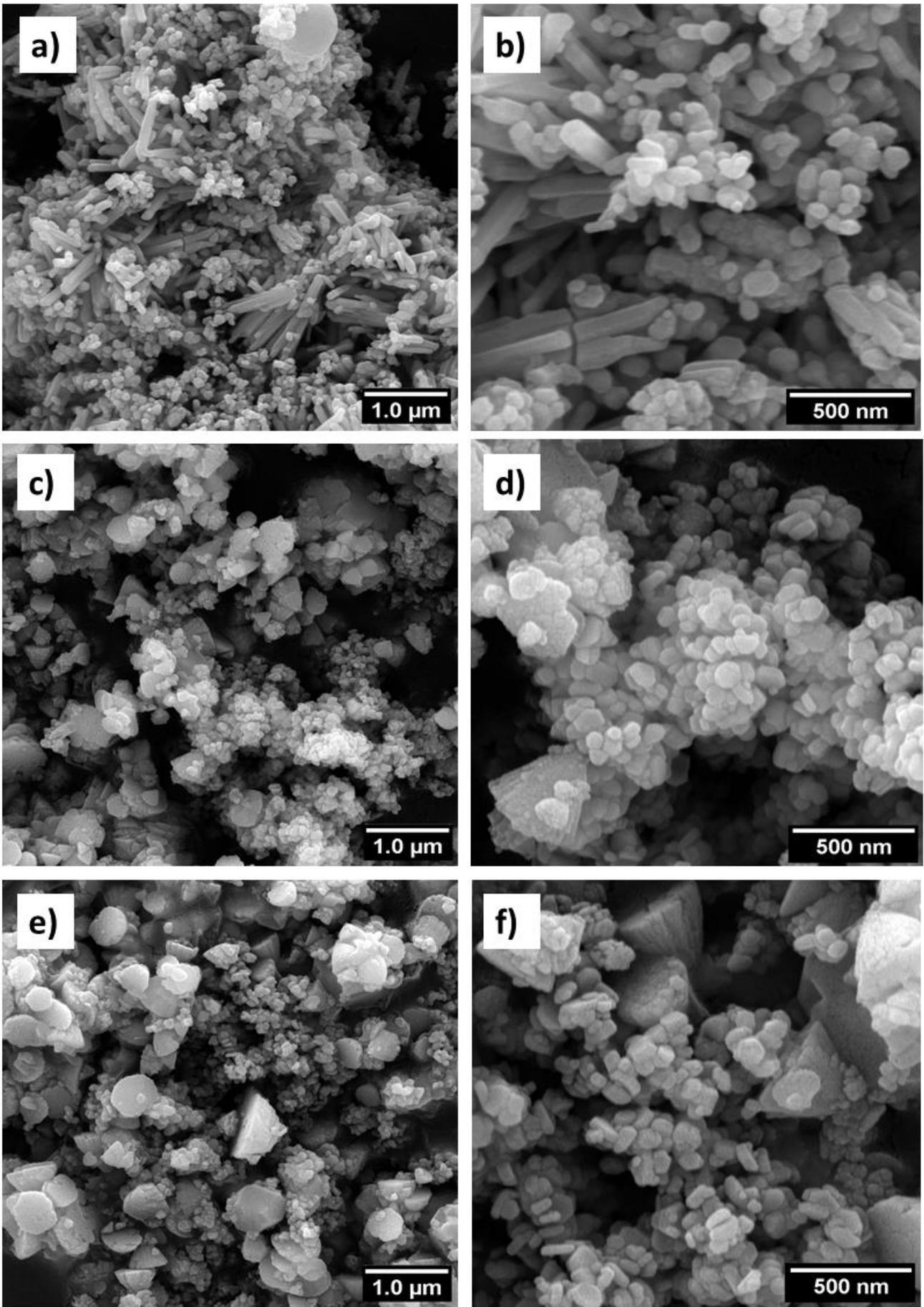


Fig. 9

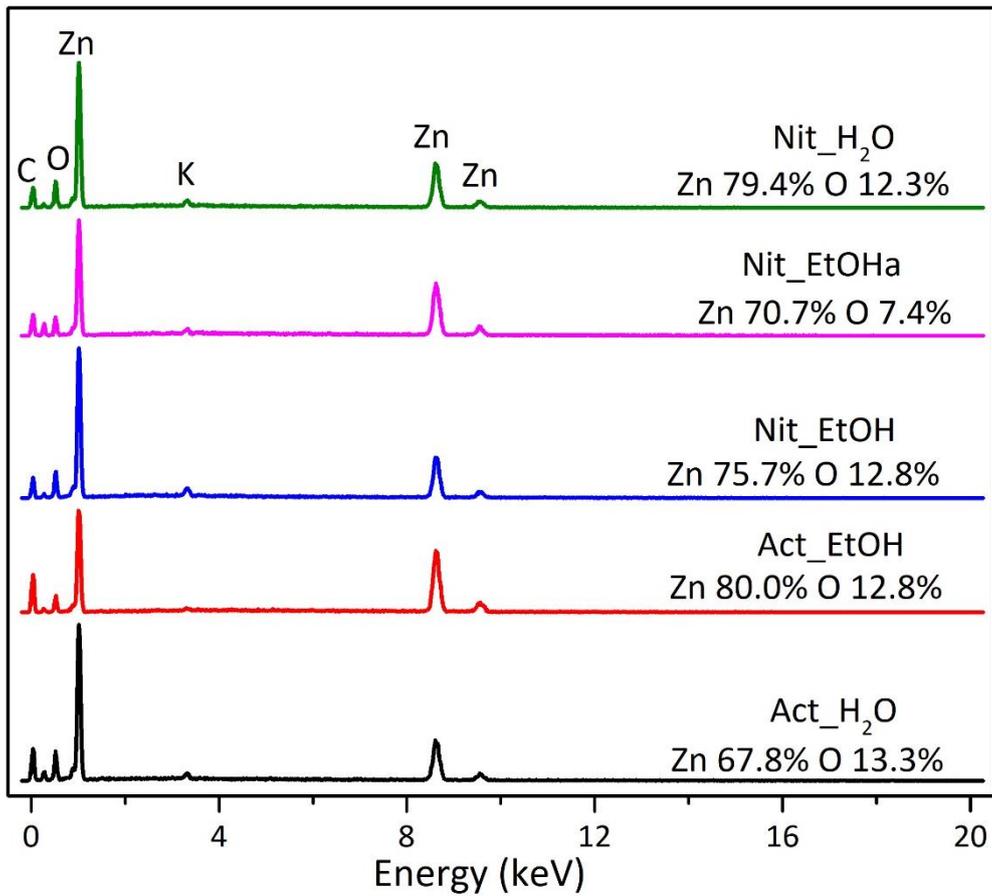


Fig.10

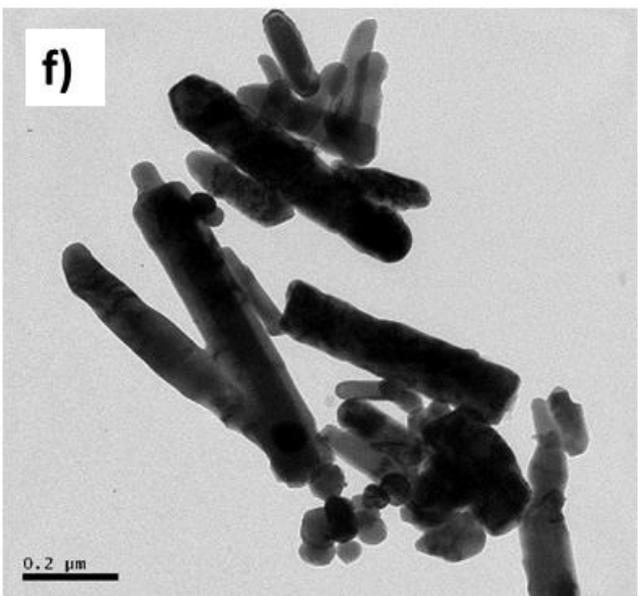
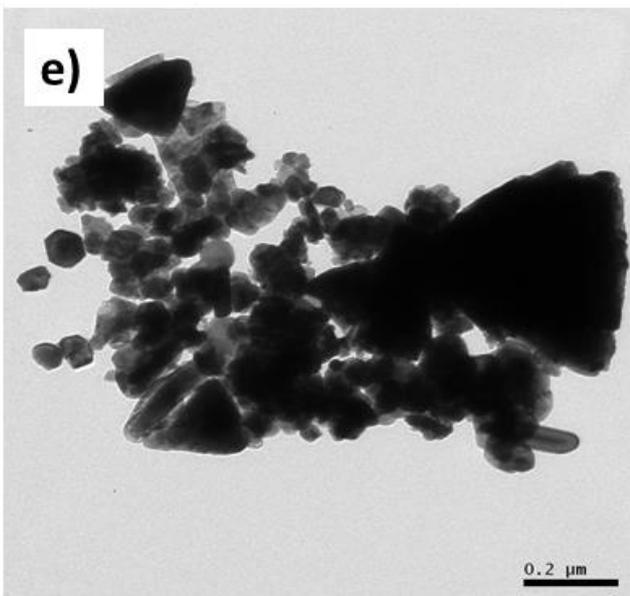
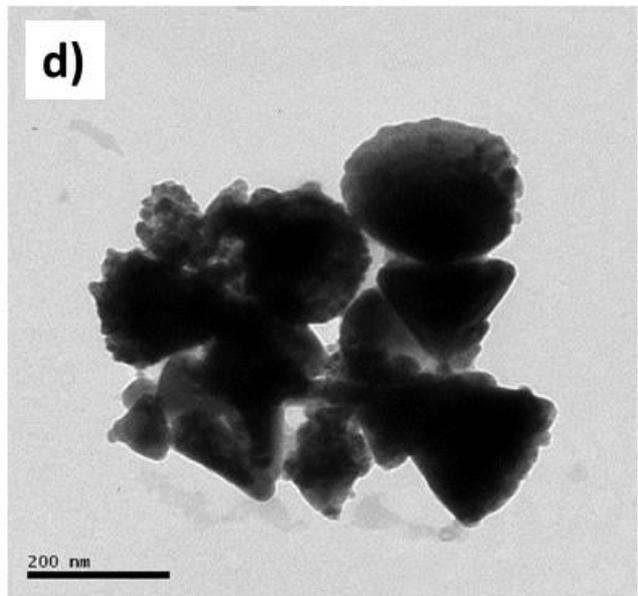
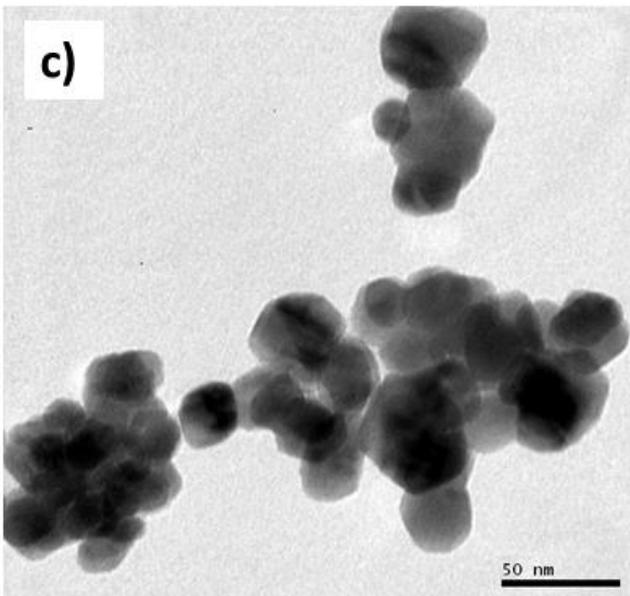
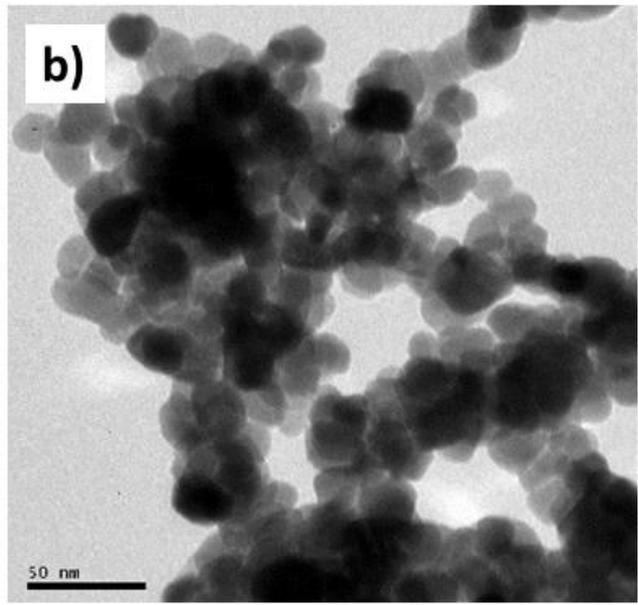
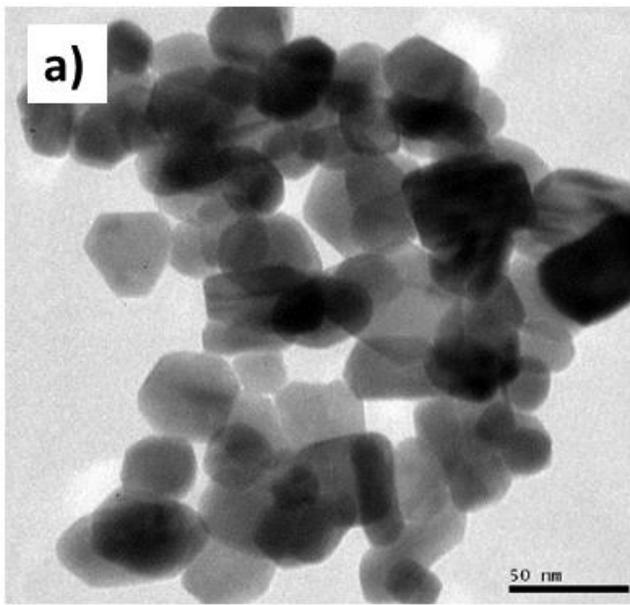


Fig. 11

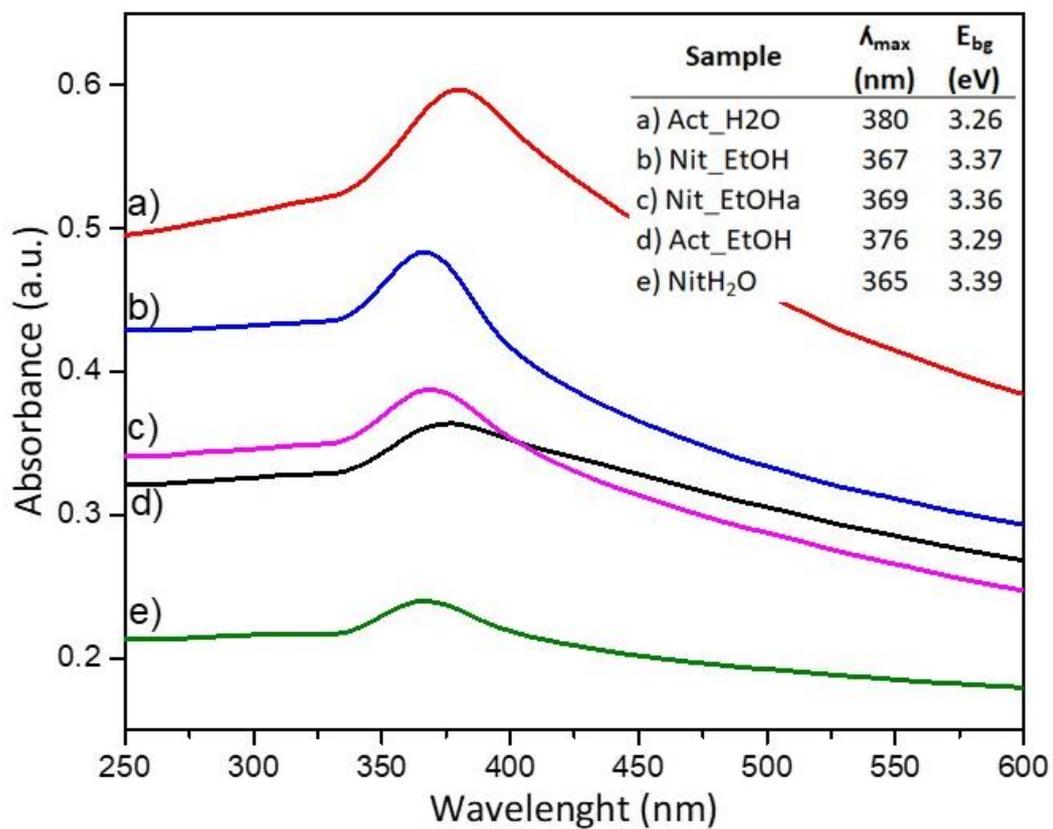


Fig. 12

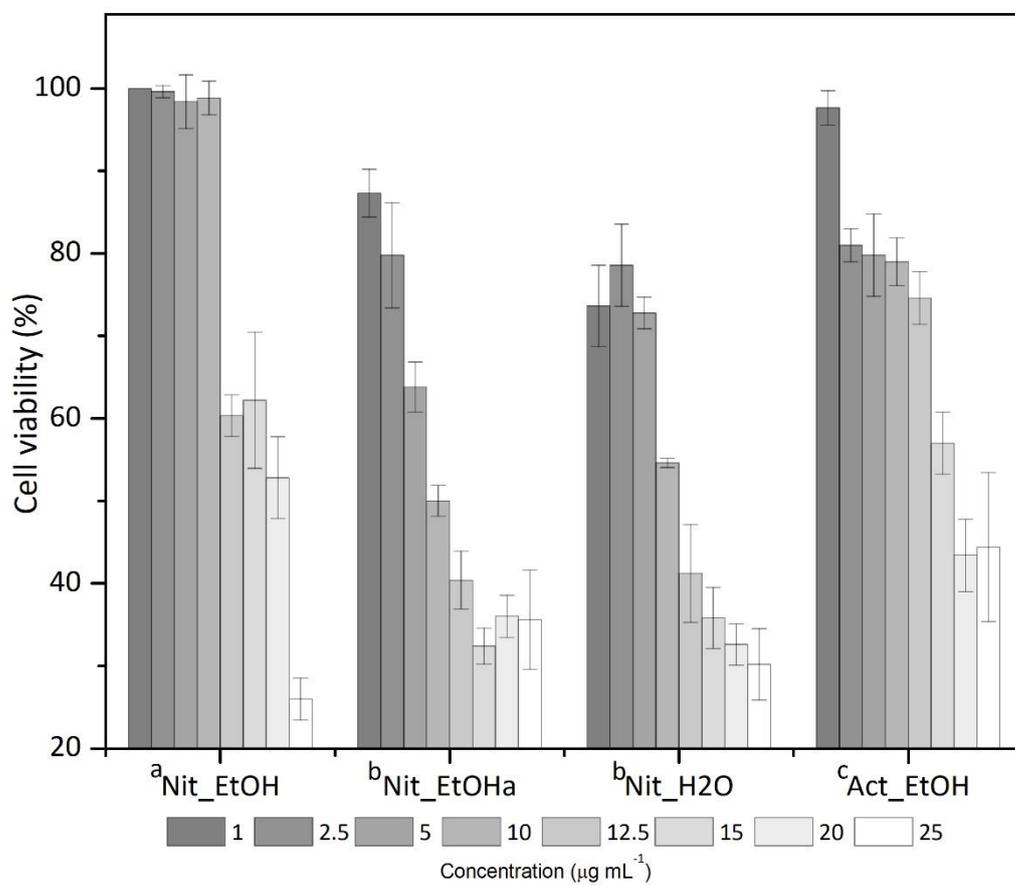


Fig. 13

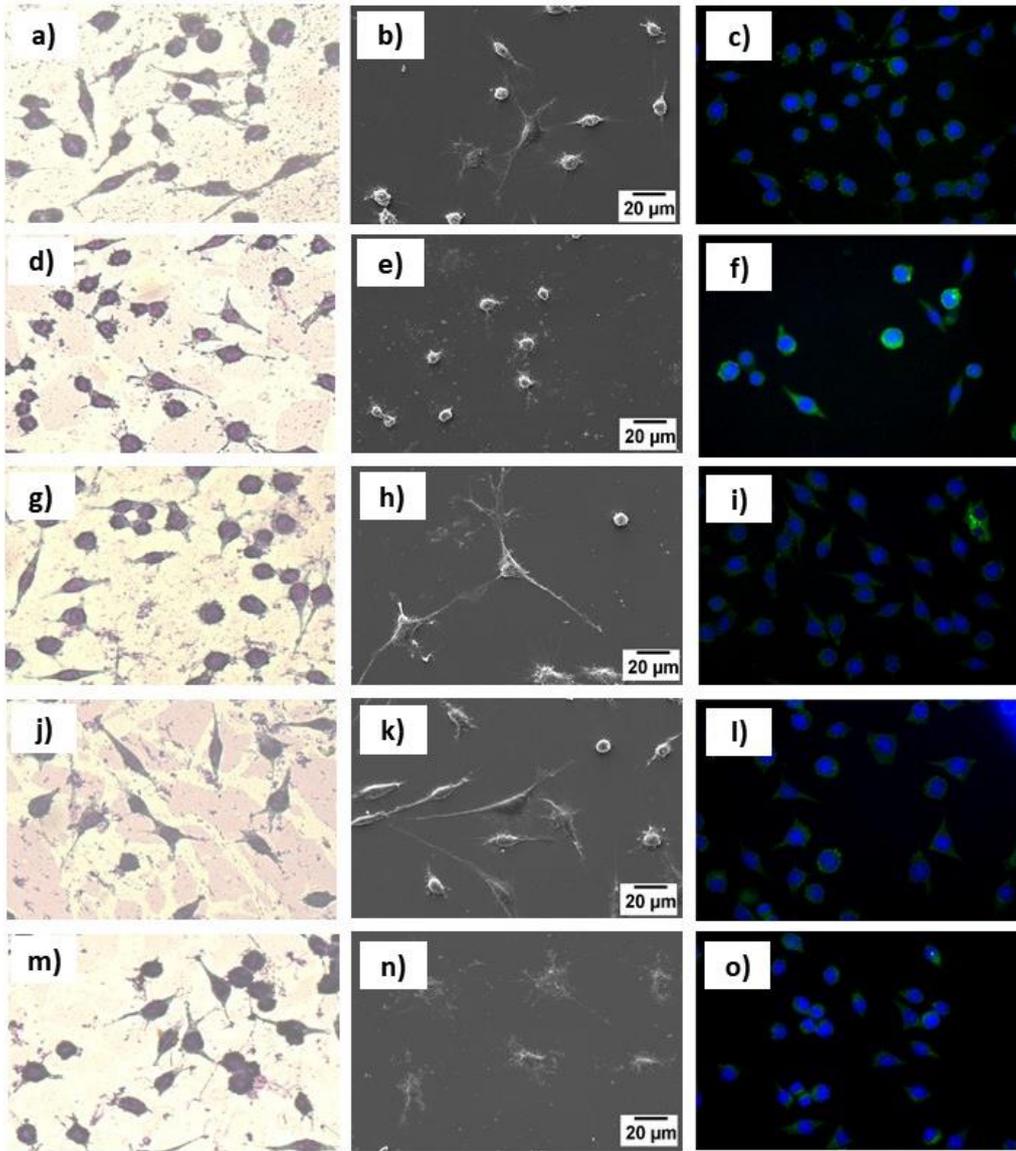


Fig. 14

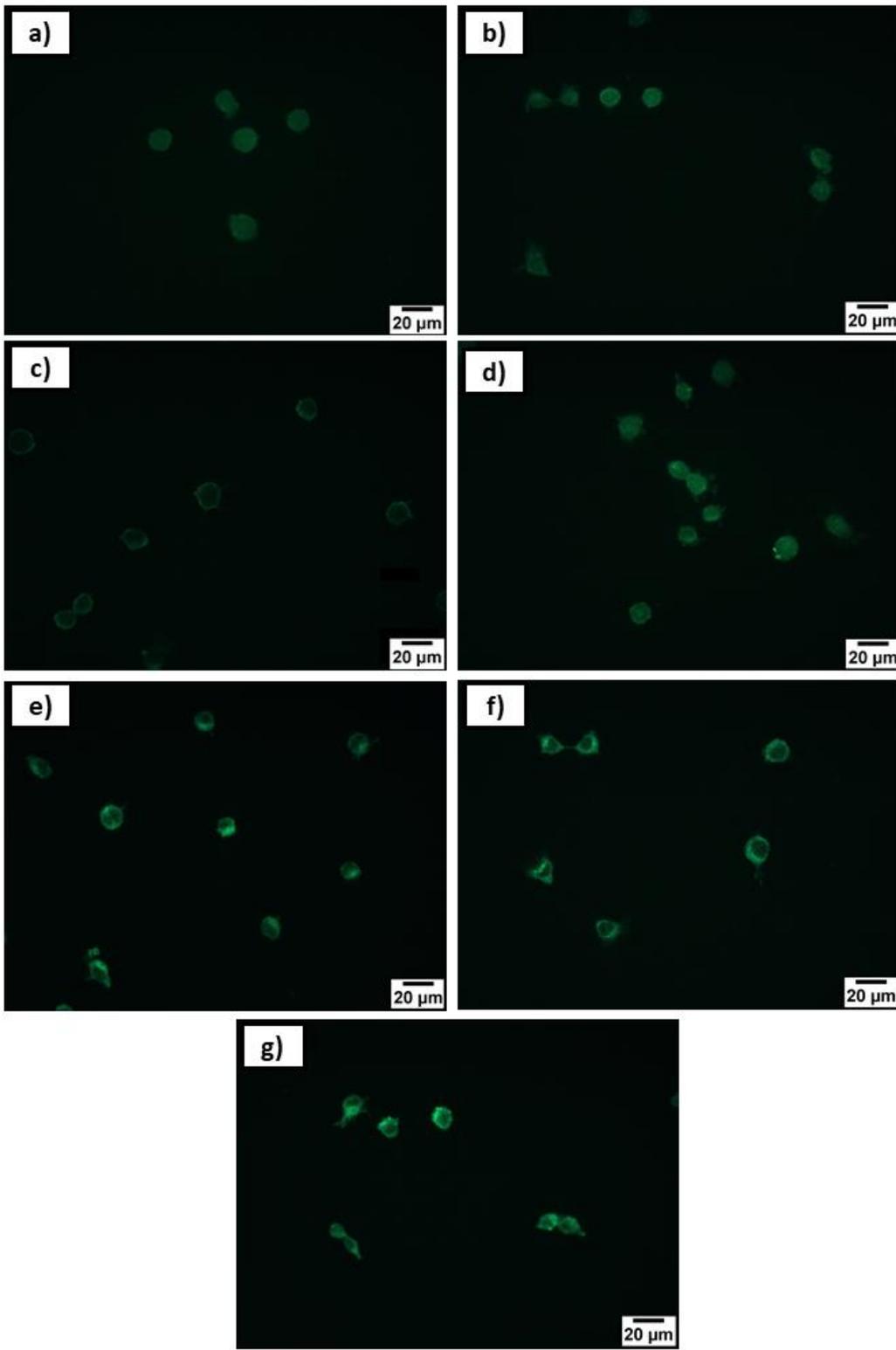


Fig. 15