

Fig. 1 Evaluation of Thermo gravimetric analysis/ Differential Thermal analysis (TGA/DTA) for the uncapped-AgNP formulations.

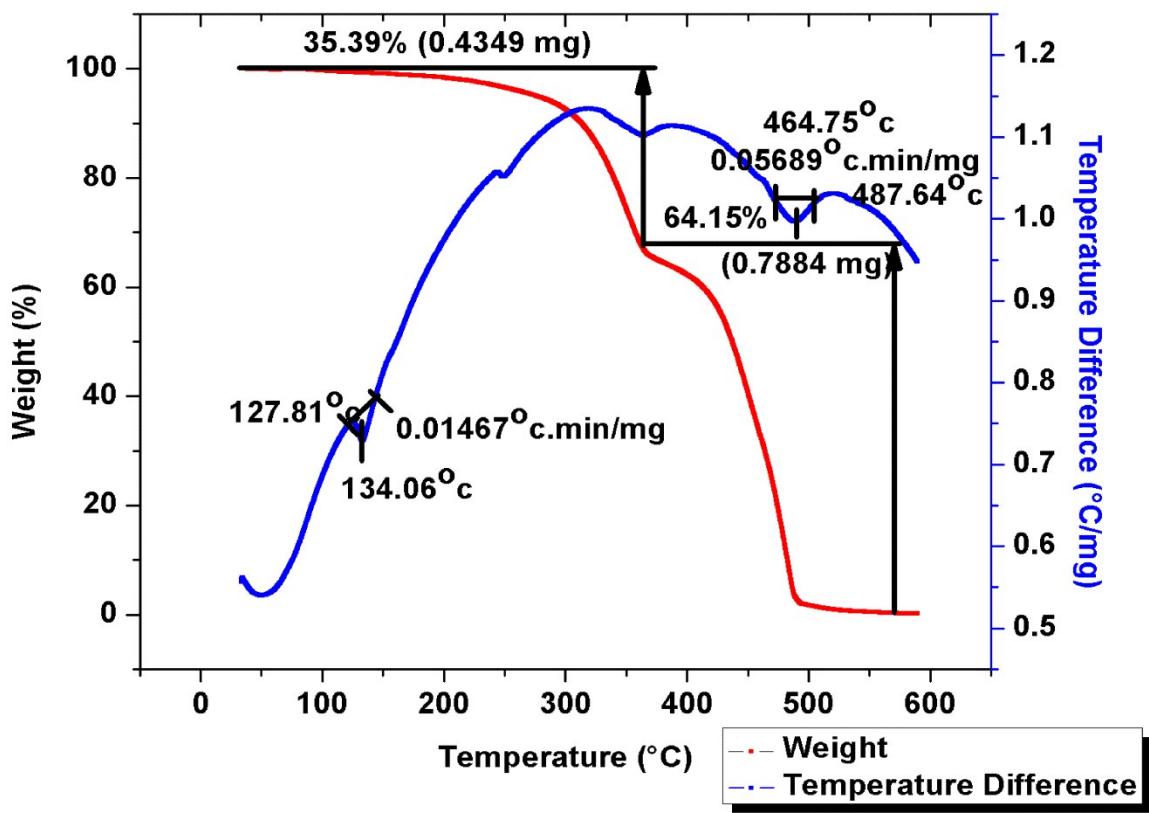


Fig. 2 Evaluation of Thermo gravimetric analysis/ Differential Thermal analysis (TGA/DTA) for the PVA-AgNP Formulations.

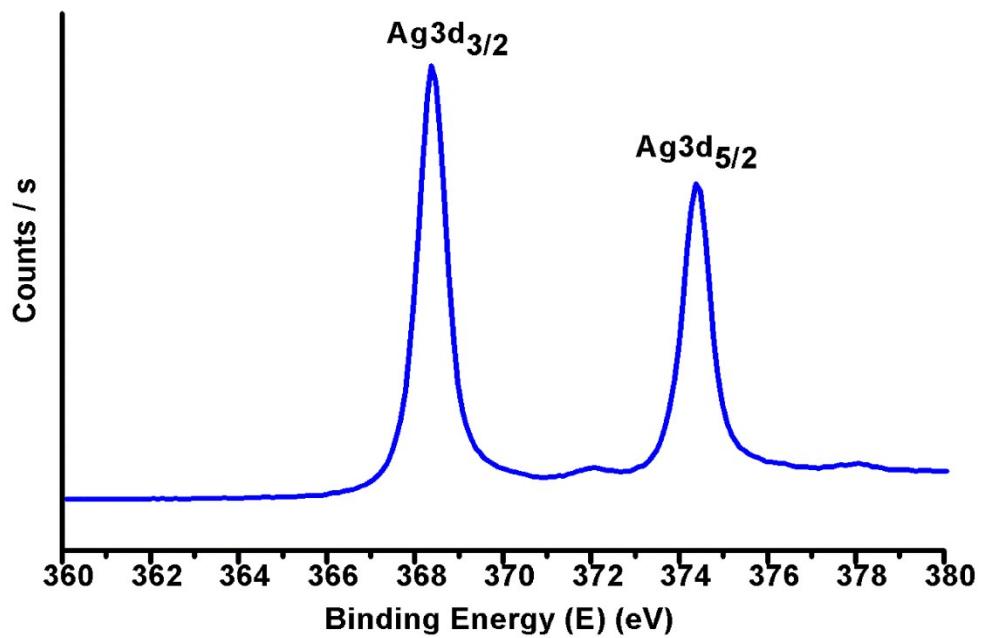


Fig. 3 Evaluation of elemental analysis using X-Ray photoelectron Spectroscopy (XPS) for uncapped-AgNP Formulations.

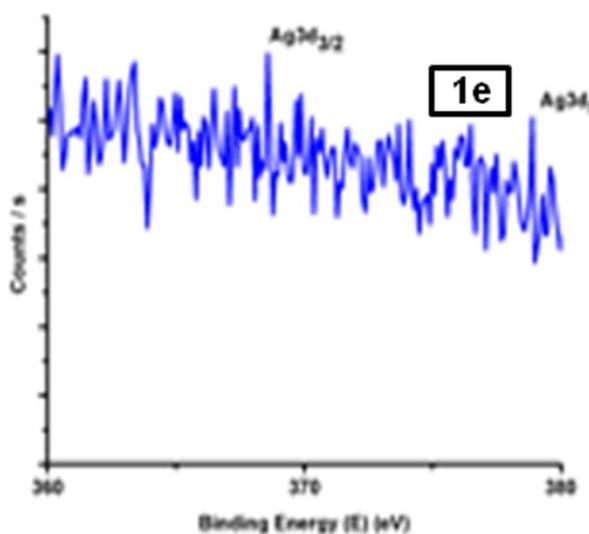
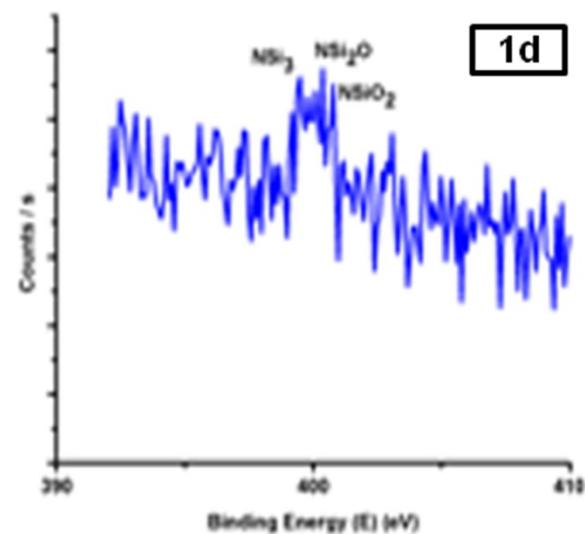
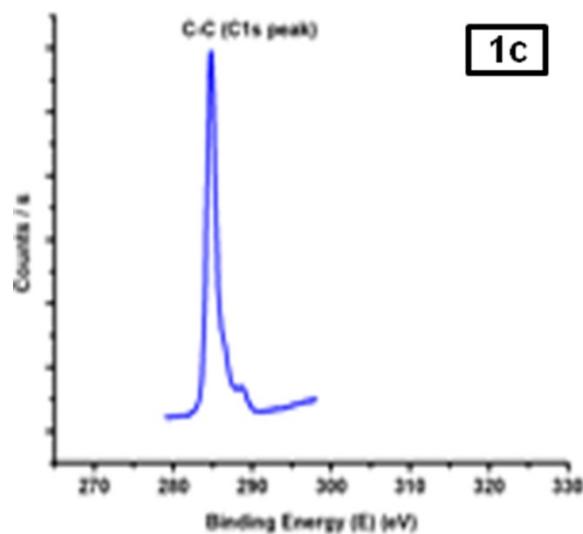
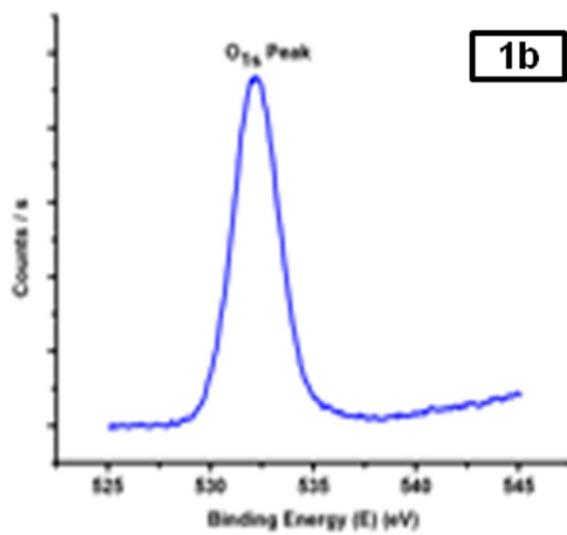
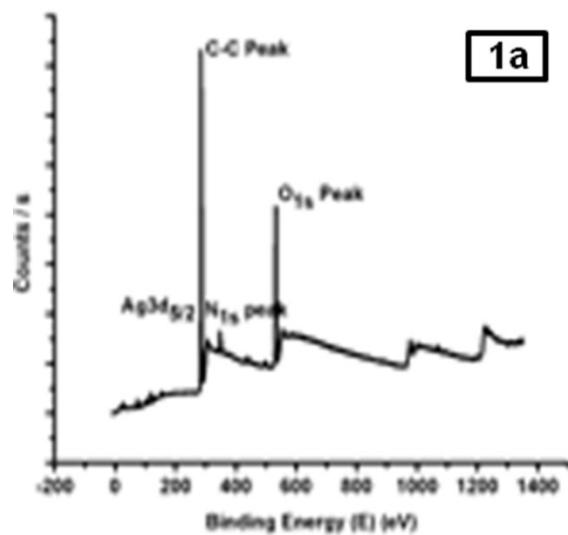


Fig. 4 Evaluation of elemental analysis using X-Ray photoelectron Spectroscopy (XPS) for PVA-AgNP formulations. (1a) Complete XPS surface analysis for PVA-AgNPs (1b) Core Oxygen peak for PVA-AgNPs (1c) Core carbon Peak for PVA-AgNPs (1d) Core Nitrogen peak for PVA-AgNPs (1e) Core AgNP peak for AgNPs.