



ELECTROLESS DEPOSITION OF NANO ALLOYS

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Nanomaterials have proved their efficiency in numerous fields of technological relevance because they present an opportunity to deliver unprecedented material performance. Materials and alloys of nanodimensions have attracted significant research attention due to their unique properties (e.g. magnetic, optical, mechanical and electronic). We have successfully prepared alloys of Copper and silver deposited on glass surface through a very simple environmentally benign route. The alloy film has been deposited purely at room temperature and using water as solvent. This technique is reproducible and inexpensive to deposit films of alloys on glass substrates. The film deposited has been characterized through UV-VIS spectroscopy, AFM & XRD. Effect of variants like temperature, concentration of metal, reaction timings and concentration of reducing agent on film deposition and also texture of film has been investigated. Electrical properties of film deposited have been checked.