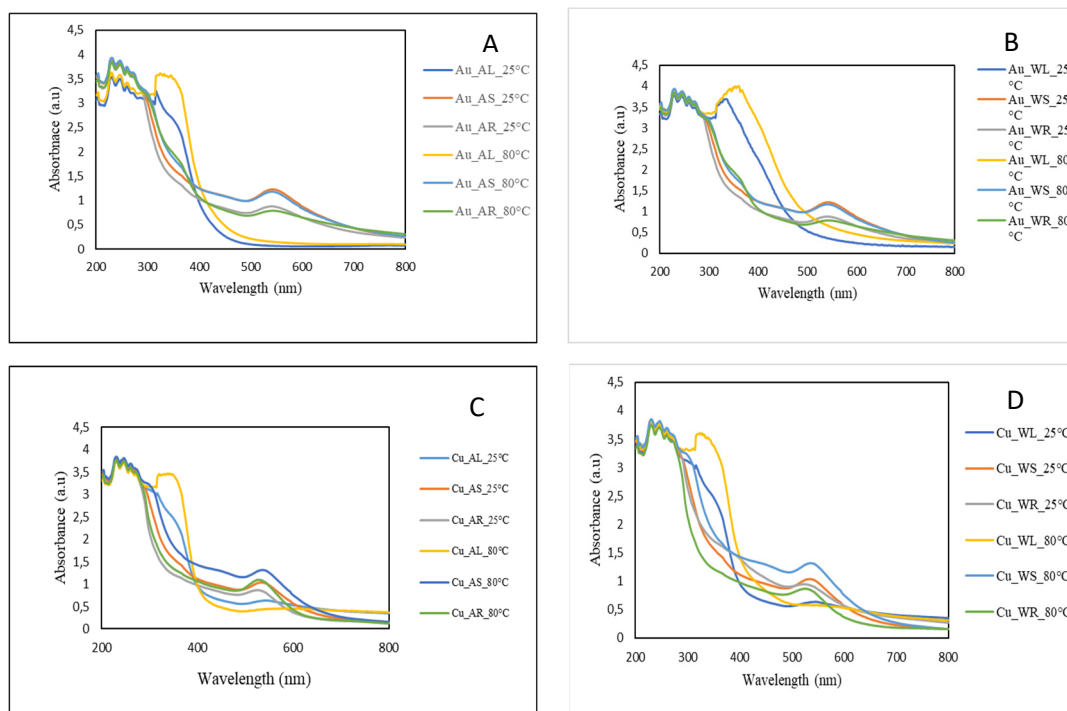


Supporting Information:



Sample keys : AL=acetone Leaf; AS=acetone stem; AR=acetone root; WL=water leaf; WS= water stem;WR=water root.

Figure S1 The UV-Vis data of AuNFs, NPs (A and B) and CuNPs (C and D). Legends denotes extracts from which nanoparticles were synthesised.

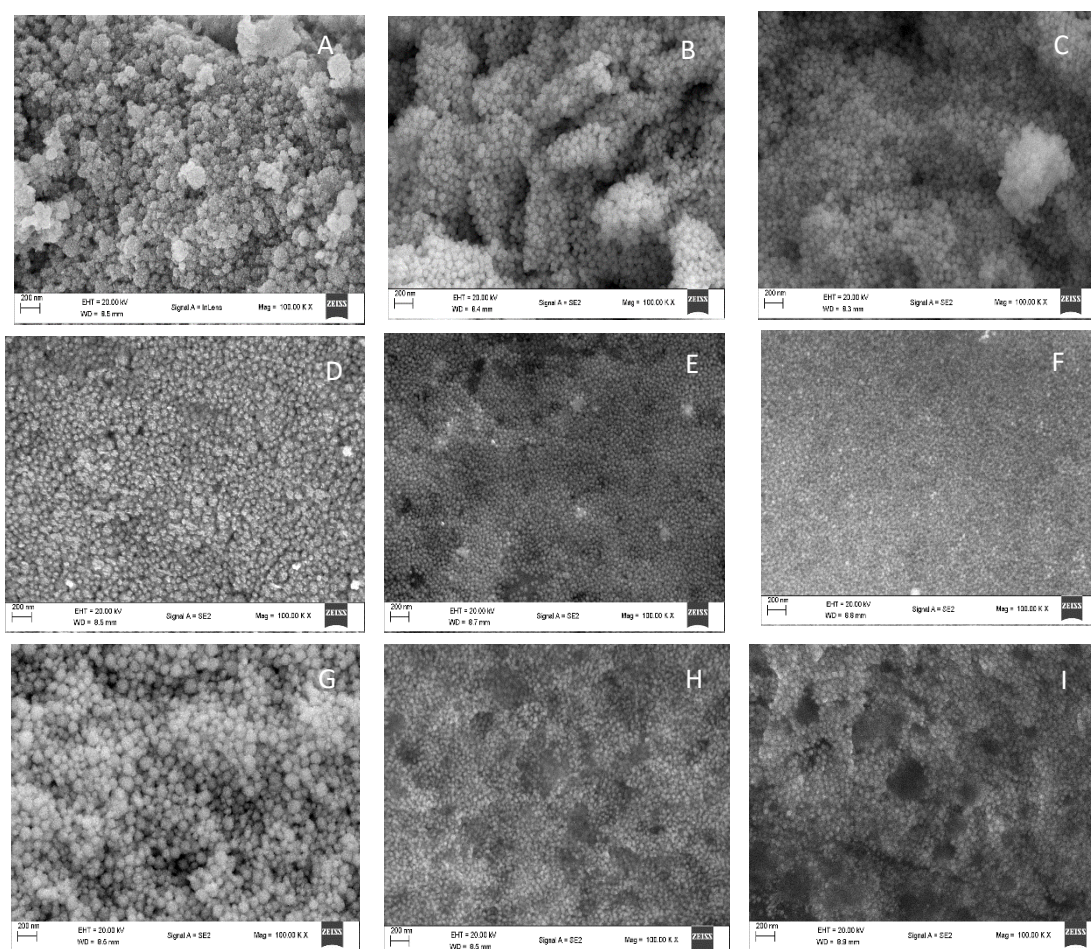


Figure S2 SEM micrographs of AuNFs and AuNPs synthesised from leaf, stem and root methanol (A – C), acetone (D – F) and water (G – I) extracts, of *Lankea discolor*.

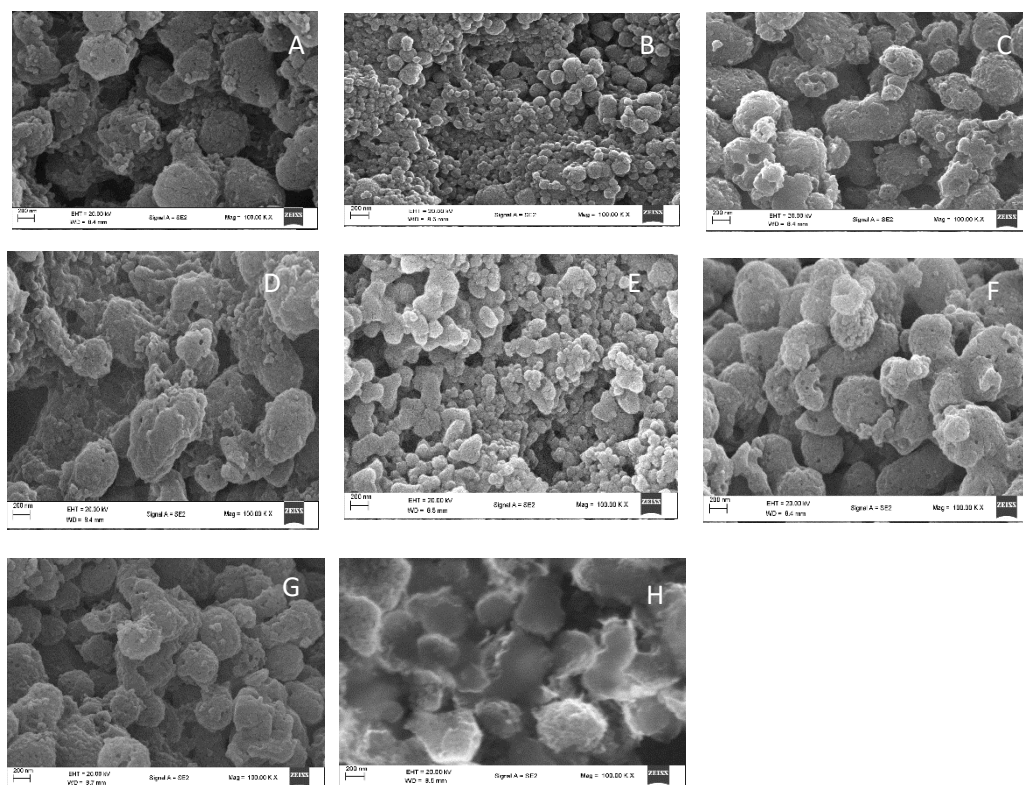


Figure S3 Representative SEM images of CuNPs from *Lannea discolor* leaf, stem and root methanol (A – C), acetone (D – F) and water (G – H) extracts.

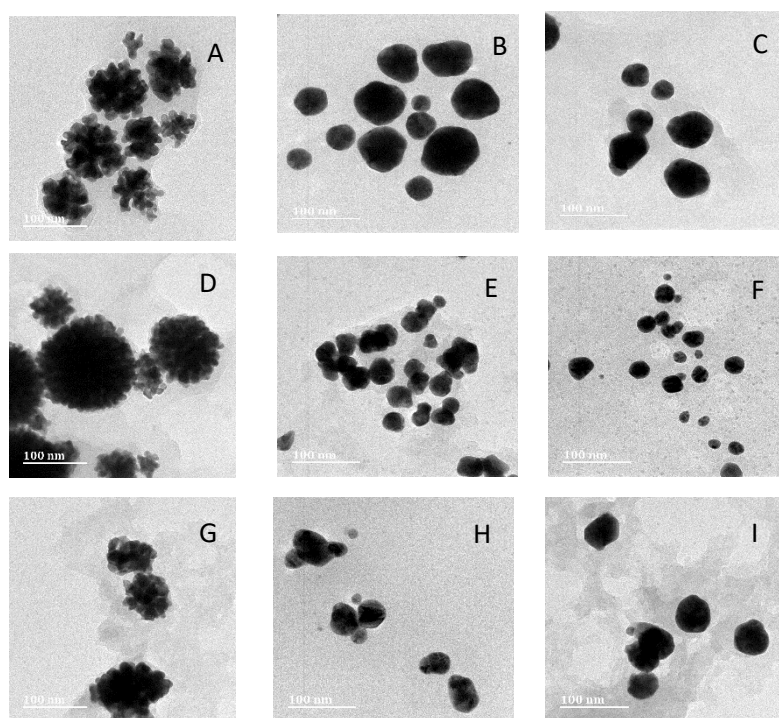


Figure S4 TEM images of the synthesised AuNFs and AuNPs. A, D and G show AuNFs synthesised from leaf methanol, acetone, and water extracts, respectively. AuNPs synthesised from methanol, acetone, and water stem and roots extracts are shown in micrographs B, C, E, F, H and I.

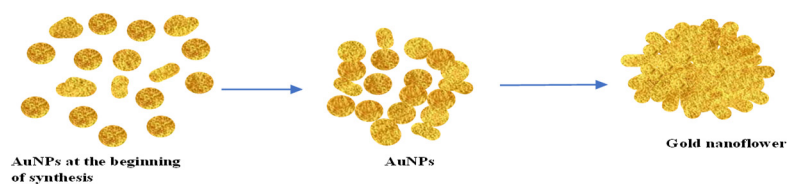


Figure S5. Schematic diagram showing proposed growth mechanism of AuNFs from *Lannea discolor* leaves.

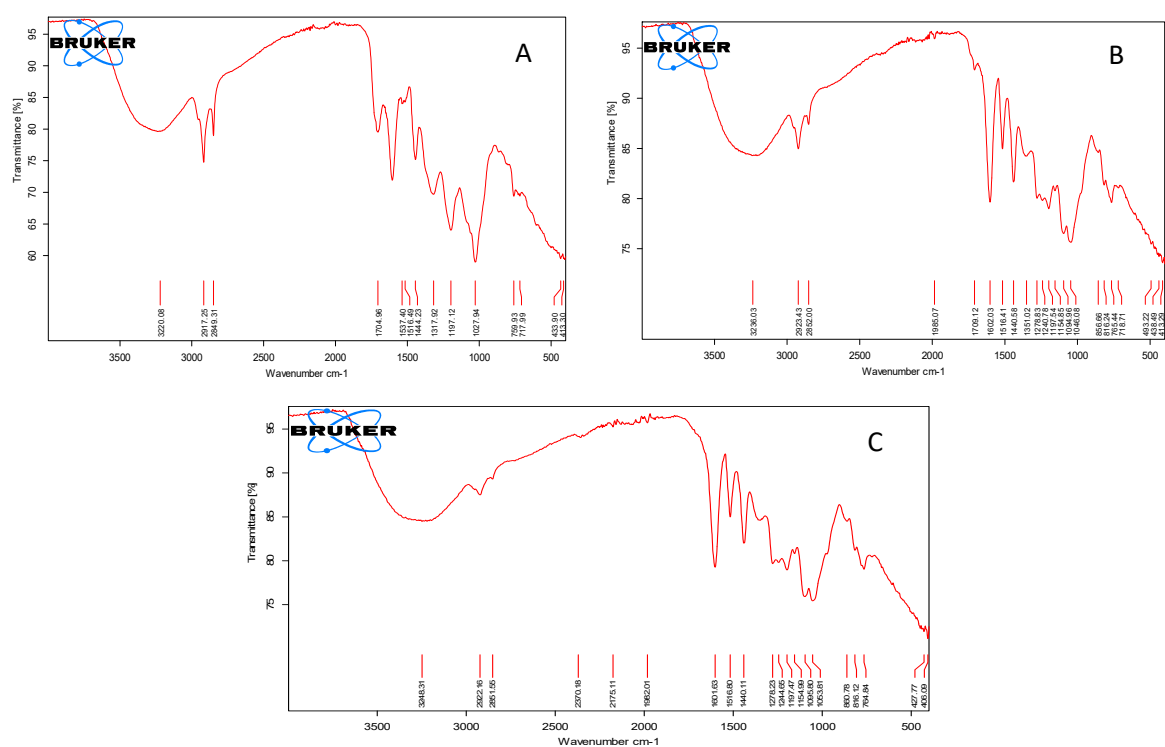


Figure S6 FTIR spectra of *Lannea discolor* leaf (A), stem (B) and root (C) crude methanol extracts.

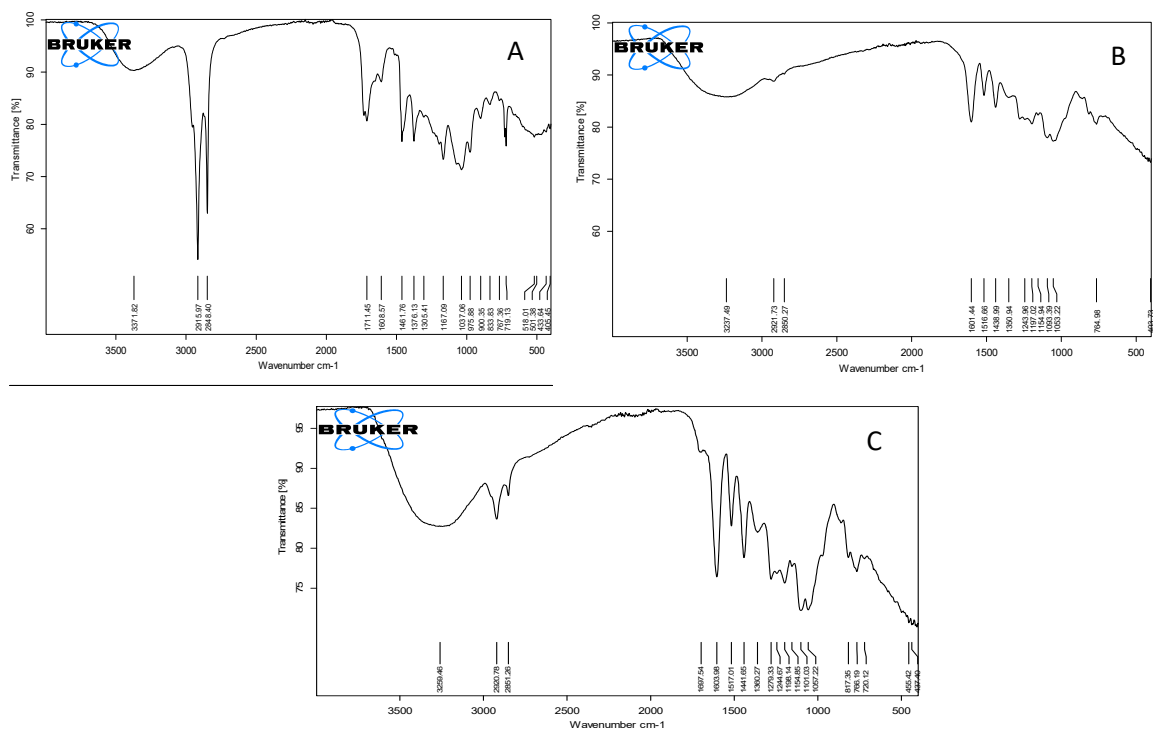


Figure S7 FTIR spectra of *Lanea discolor* leaf (A), stem (B) and root (C) crude acetone extracts.

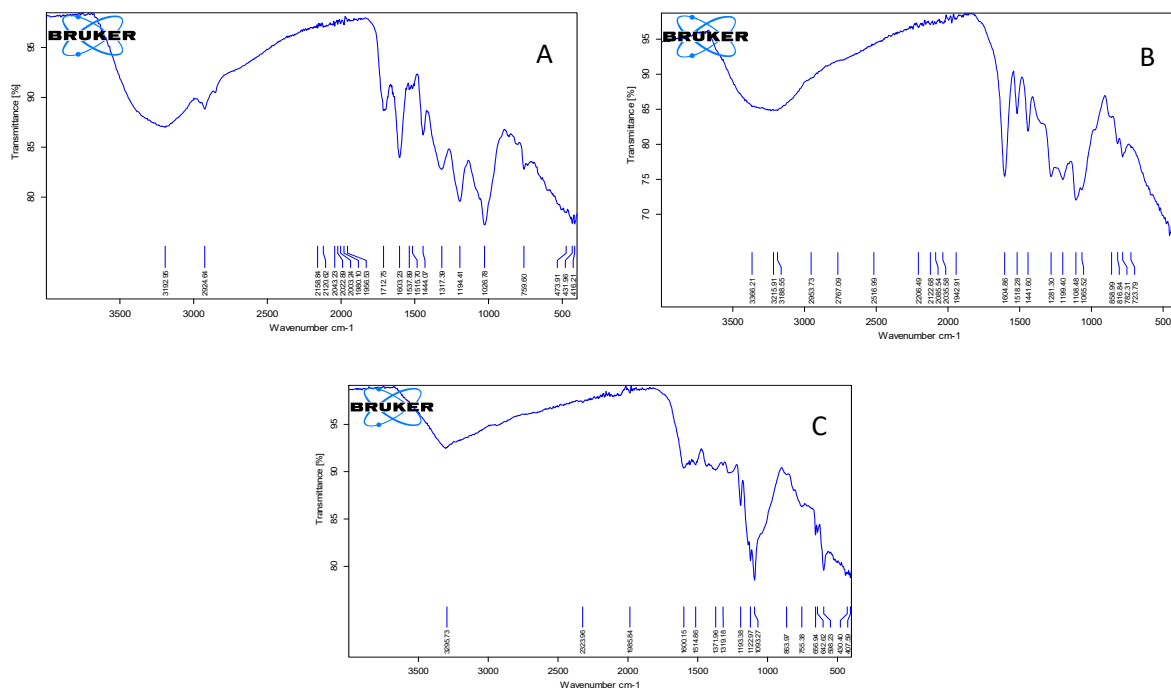


Figure S8 FTIR spectra of *Lanea discolor* leaf (A), stem (B) and root (C) crude water extracts.