RSC**Publishing**

Electronic Supplementary Information

Exploring Copper Nanostructures as Highly Uniform and Reproducible Substrates for Plasmon-Enhanced Fluorescence

D. Volpati, E. R. Spada, C.C. Plá Cid, M.L. Sartorelli, R.F. Aroca, C.J.L. Constantino

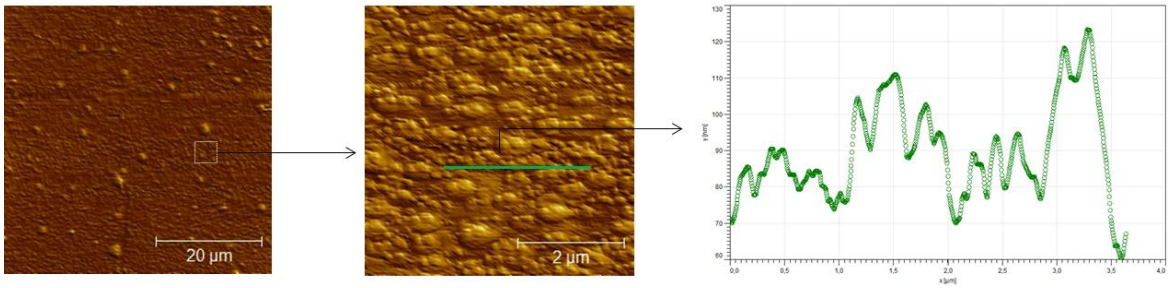

Figure S1. AFM images from a CuR for distinct areas: a) 50 µm x 50 µm and b) 1 µm x 1 µm. c) Profile extracted from the AFM image shown in (b) (green line).

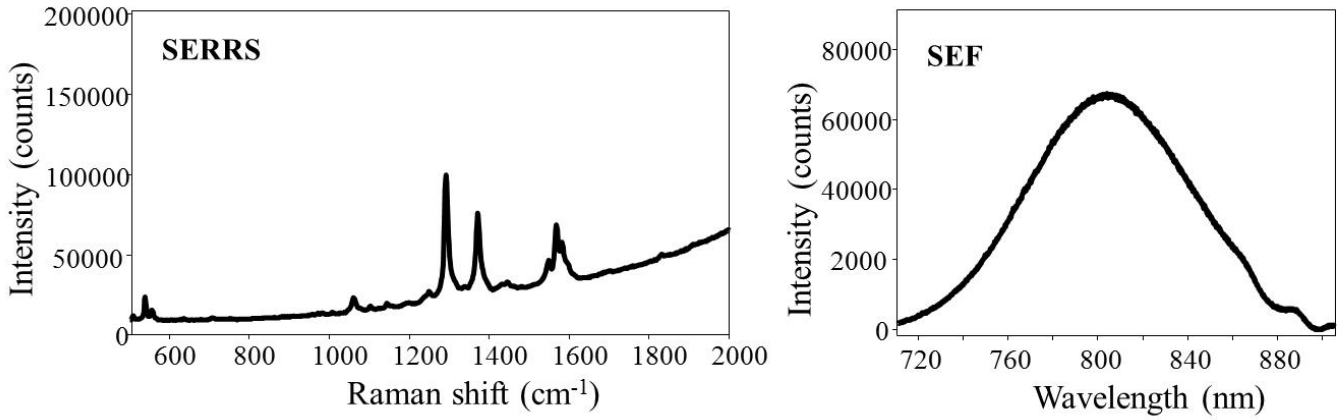

Figure S2. SERRS and SEF spectra recorded using 633 nm excitation laser line for 10 nm PVD film of AzoPTCD onto CuR.

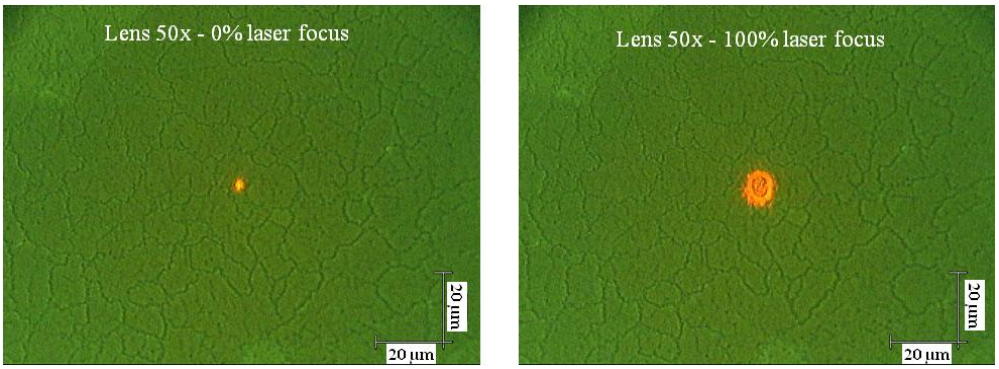

Figure S3. Microscope images for CuNS film with the laser beam focused with 0% and 100% opened by the beam expander. In 0% opened, the laser is tightly focused while 100% indicates it is a defocused beam.

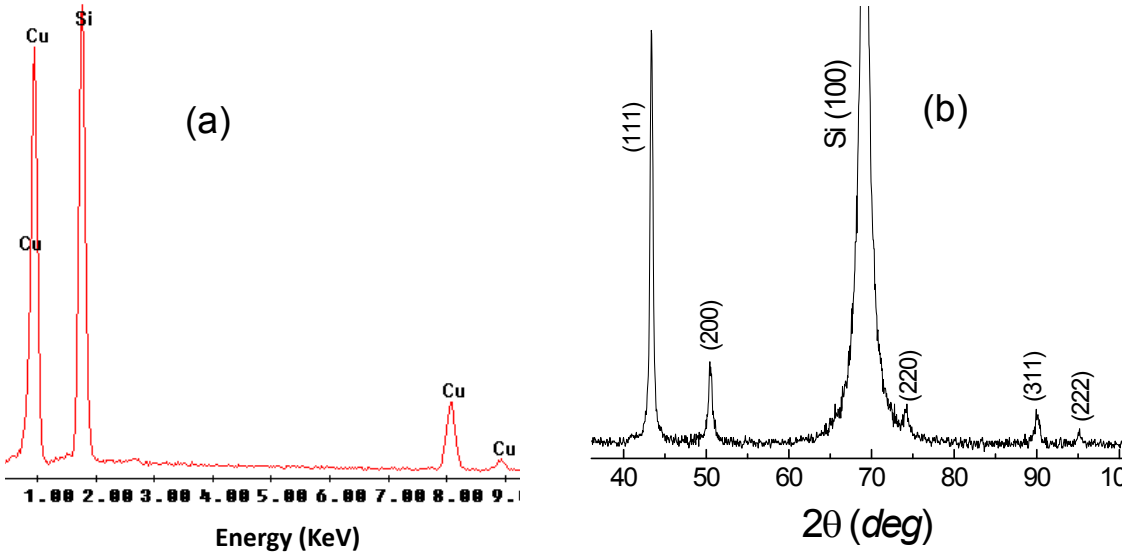

Figure S4. (a) EDX obtained with beam energy of 12 KeV and (b) XRD pattern for Cu film onto Si, respectively. The Cu films was electrodeposited from an electrolyte containing 0.019 mol dm^{-3} of $CuSO_4$, 0.170 mol dm^{-3} of $NiSO_4$ and 0.19 mol dm^{-3} of $Na_3C_6H_5O_7$.