Electronic Supplementary Material (ESI) for Dalton Transactions

Coordination chemistry for antibacterial materials: a monolayer of a Cu^{2+} 2,2'-bipyridine complex grafted on a glass surface

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Electronic Supplementary Informations

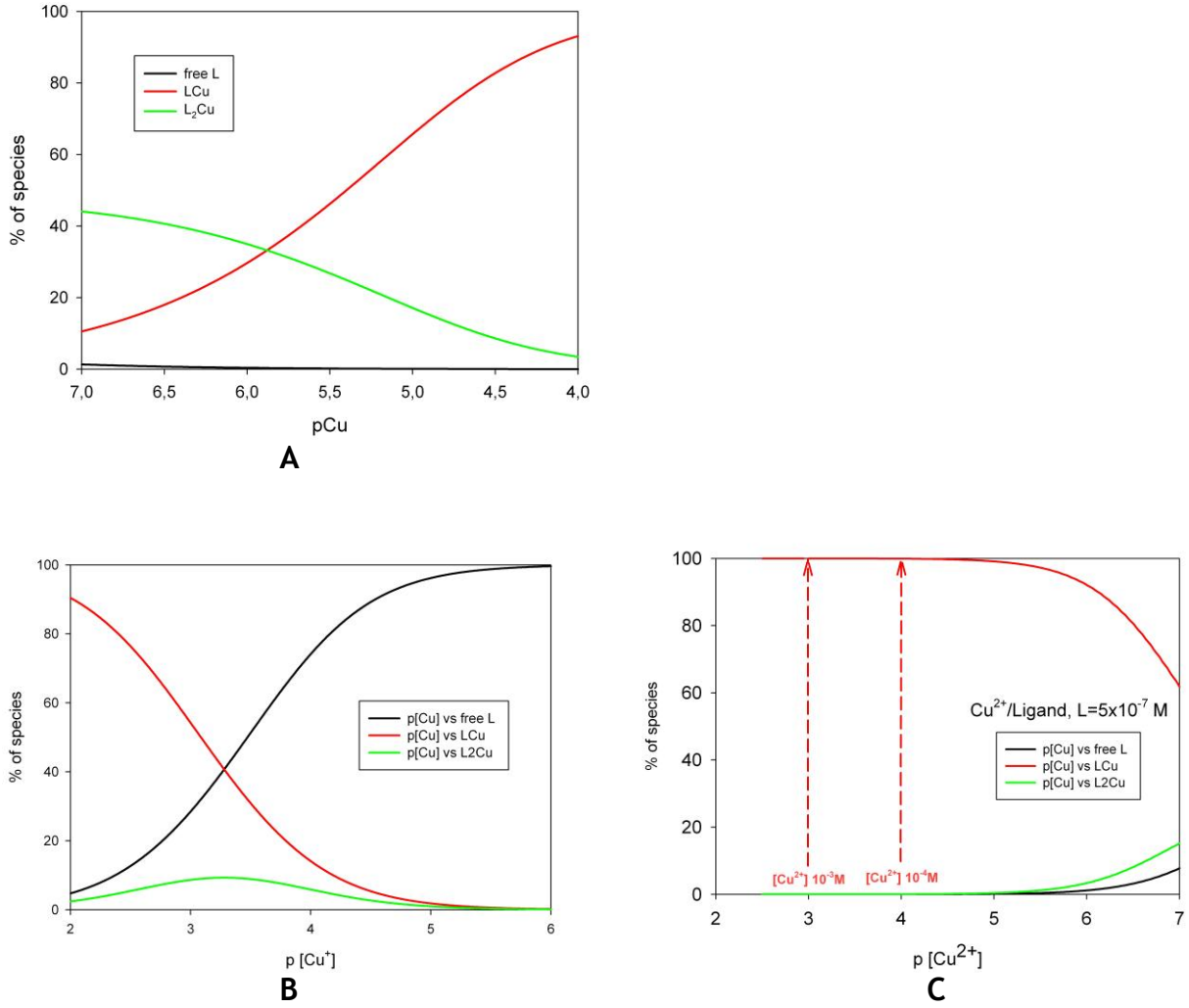
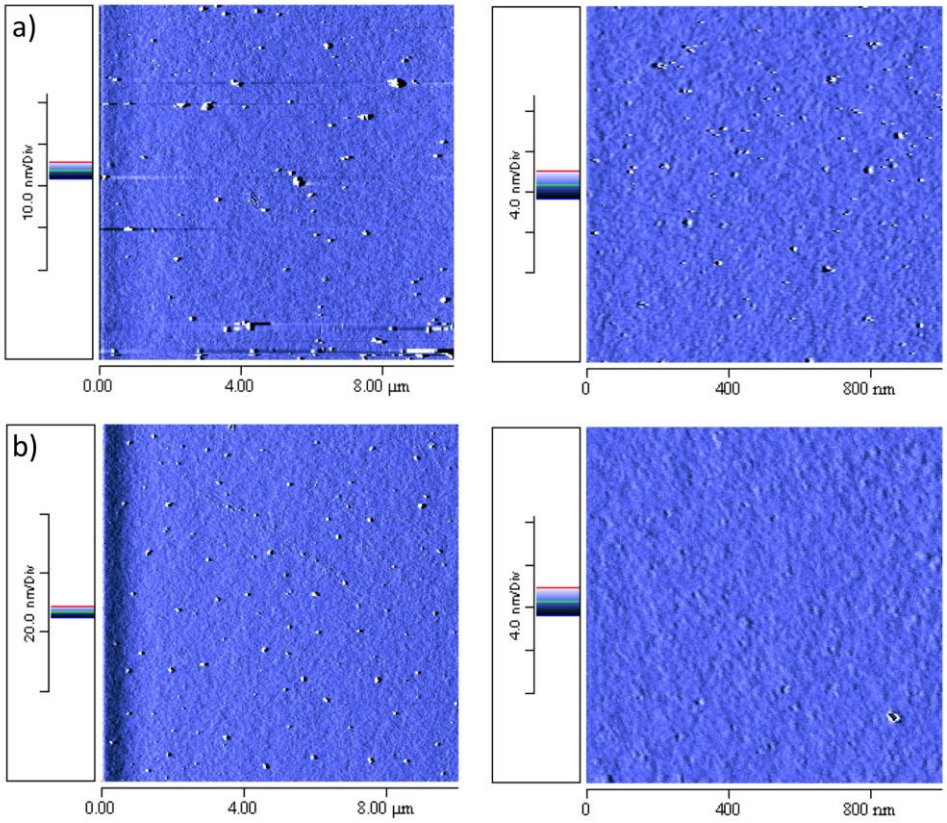


Figure S1 – A) distribution diagram for bipy-PR/Cu^{2+} in acetonitrile solution, calculated for bipy-PR = $2.5x10^{-5}$ M; B) distribution diagram for bipy-PR/Cu^{+} in acetonitrile solution for bipy-PR = $5x10^{-5}$ M; C) distribution diagram for bipy-PR/Cu^{2+} in acetonitrile solution, calculated for bipy-PR = $5x10^{-7}$ M (% of $[LCu]^{2+}$ for Cu^{2+} concentrations = 10^{-3} and 10^{-4} M are evidenced by red dotted arrows)



FigureS2. AFM images (error signal) of: a) Glass|bipy surface on a 10 micron scale (left panel) and 1 micron scale (right panel); b) the same for Glass|(bipy)Cu^{2+} surface

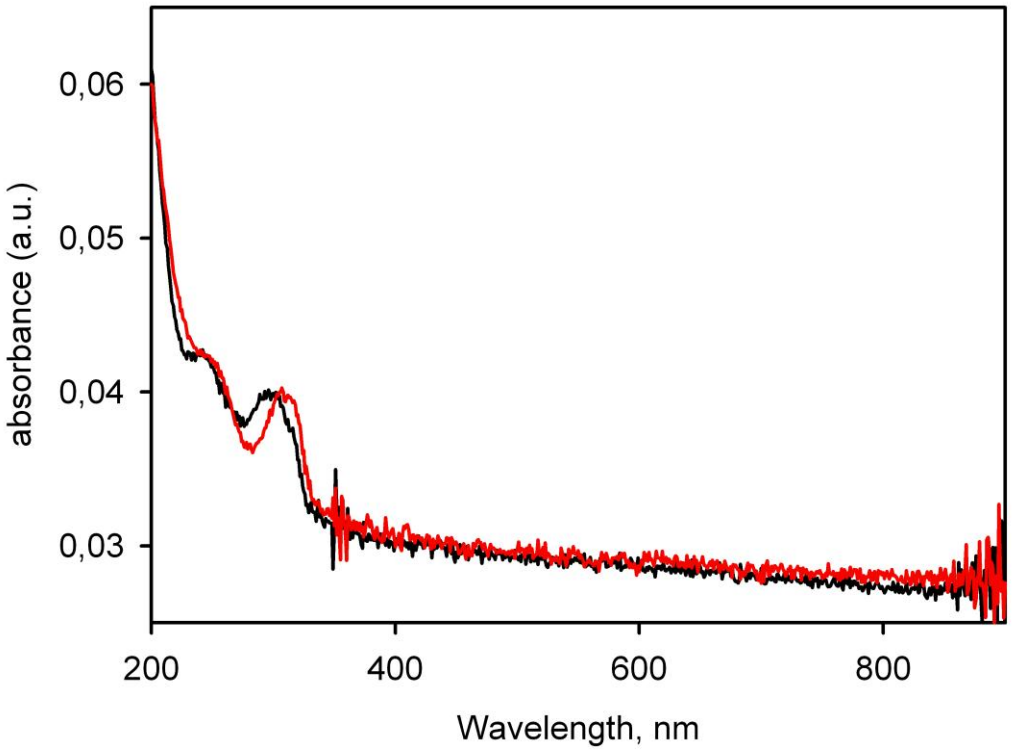


Figure S3. Uncorrected spectra for Glass|bipy (black spectrum) and Glass|(bipy)Cu^{2+} (the slide is actually made of quartz, not glass). The two spectra were recorded on the same slide, before and after complexation

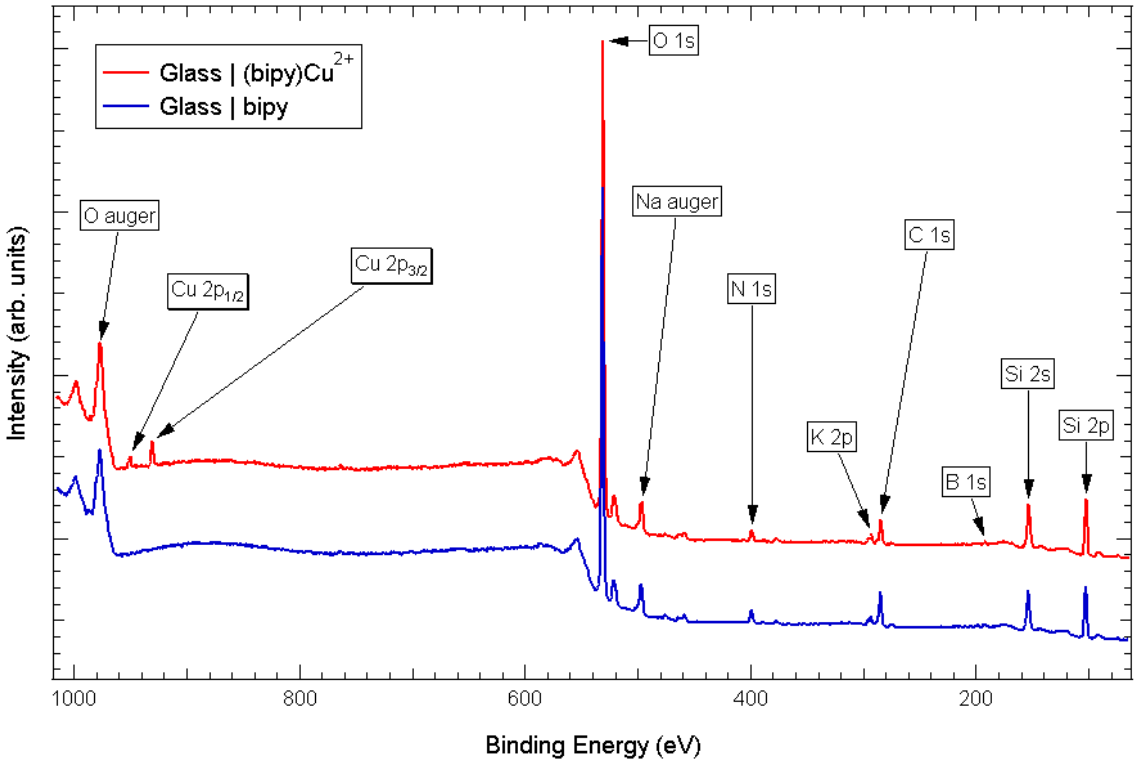


Figure S4. full range XPS spectra: red line Glass|(bipy)Cu^{2+}; blue line Glass|bipy. The XPS data havebeen collected with the Al k_α line (hv=1486.6 eV, resolution 1.00 eV) of a non-monochromatized dual-anode x-ray source and a SCIENTA R3000 electron analyzer, with a pass energy set at 100 eV