Electronic Supplementary Material (ESI) for New Journal of Chemistry.
This journal is © The Royal Society of Chemistry and the Centre National de la Recherche Scientifique 2022

Electronic Supplementary Information

A simple approach based on transmetalation for the selective and sensitive colorimetric/fluorometric detection of copper(II) ions in drinking water

Ivan Pietro Oliveri, Gabriella Munzi, and Santo Di Bella *

Dipartimento di Scienze Chimiche, Università di Catania, I-95125 Catania, Italy

E-mail: sdibella@unict.it

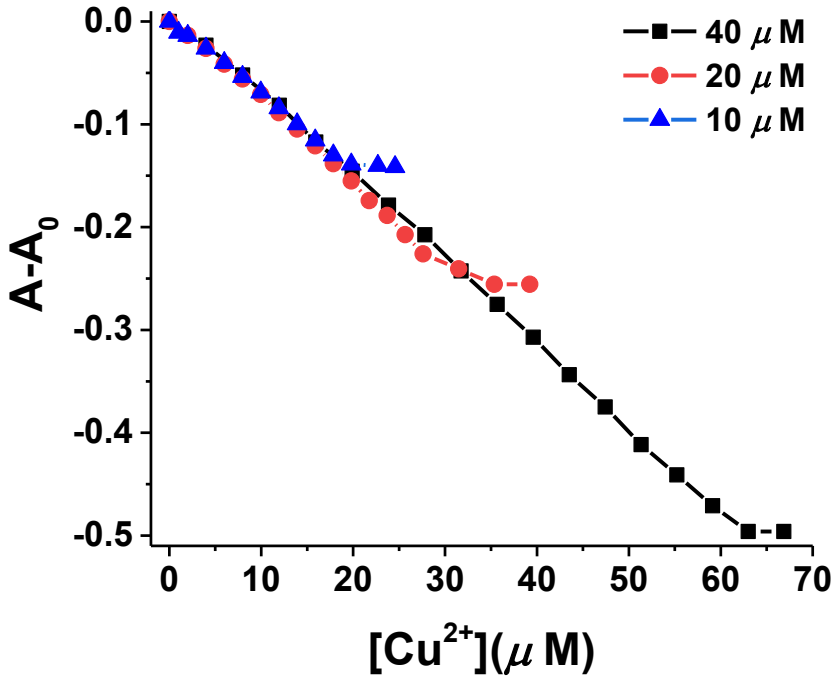

Fig. S1 Spectrophotometric titrations of **1** (MeCN solutions at different concentration) with Cu^{2+} (as aqueous solutions of the perchlorate salt). Variation of the absorbance at 568 nm as a function of the concentration of Cu^{2+} added.

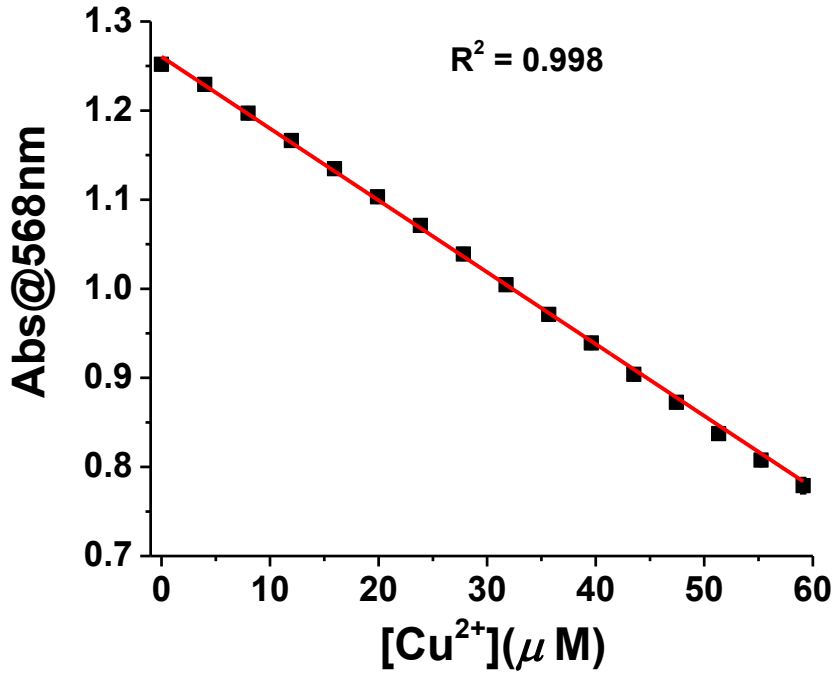

Fig. S2 Linear best fit in the linear dynamic range (weight given by data error bars) for the titration of the 40 μM solution of **1** in MeCN (absorbance at 568 nm as a function of the concentration of Cu^{2+} added).

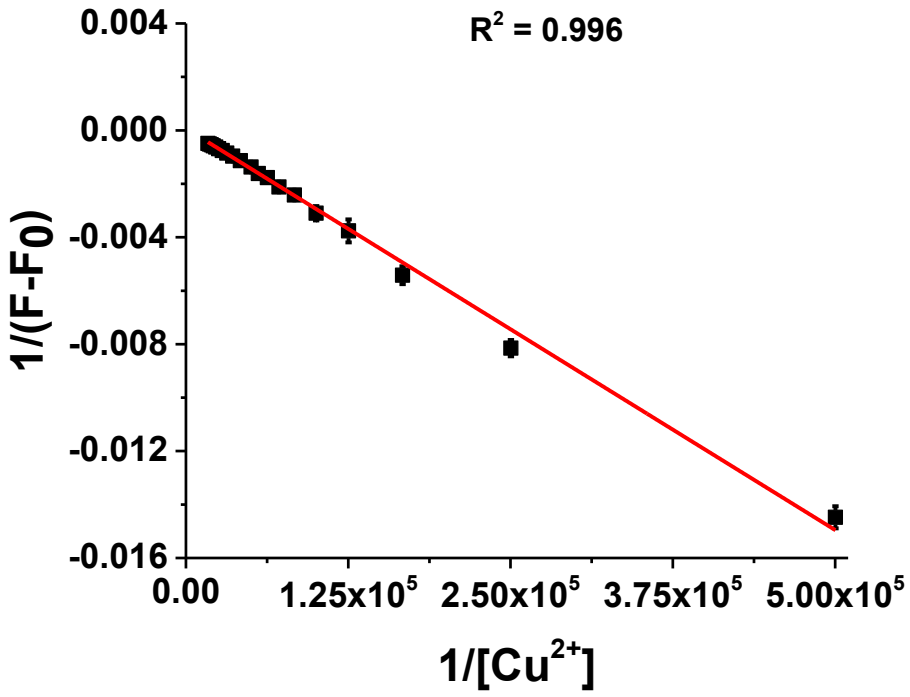

Fig. S3 Benesi-Hildebrand plot (fluorescence intensity at 645 nm) for the calculation of the binding constant of **1** (40 μM solution in MeCN) with Cu^{2+}. Weight given by data error bars.

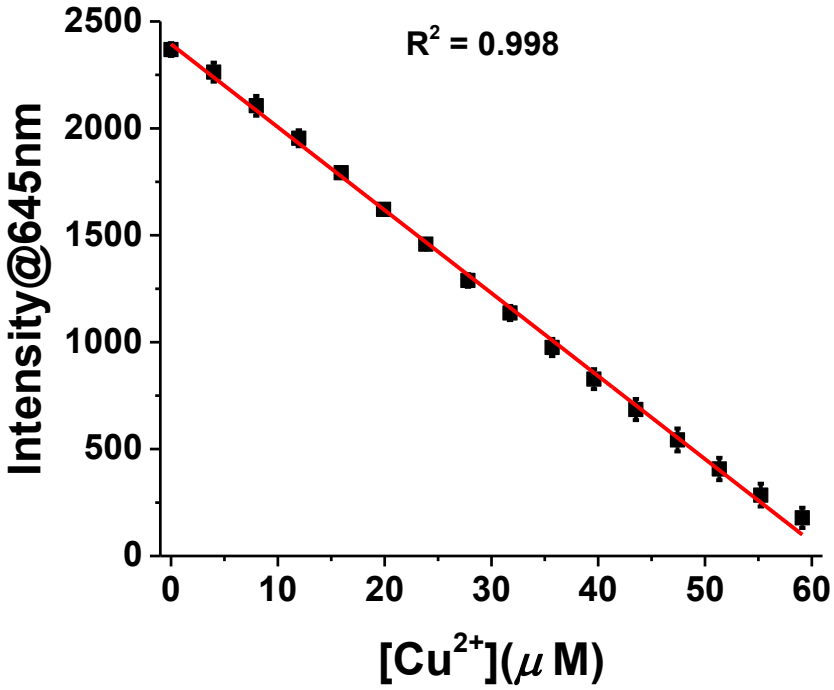

Fig. S4 Linear best fit in the linear dynamic range (weight given by data error bars) for the titration of the 40 μM solution of **1** in MeCN (fluorescence intensity at 645 nm as a function of the concentration of Cu^{2+} added).