Supporting Information

Table S1. EPR parameters for $Cu_2L^1(ClO_4)_4$ complex, and its cascade species resulting from simulation using XSophe software.

Complex	$g_\perp$	$g_\parallel$	$A_\perp$ [a]	$A_\parallel$ [a]	τ	ξ	η	r	J [a]
$Cu_2L^1(ClO_4)_4$	2.075	2.407	15	128	10	33	0	8.5	65
$Cu_2L^1(oxa)(ClO_4)_2$	2.068	2.393	15	128	0	20	0	8.5	65
$Cu_2L^1(mal)(ClO_4)_2$	2.067	2.408	15	122	0	20	0	8.5	65
$Cu_2L^1(suc)(ClO_4)_2$	2.069	2.407	15	124	0	20	0	8.5	65
$Cu_2L^1(glu)(ClO_4)_2$	2.066	2.395	13	128	0	20	0	8.5	65

[a] (A and J) $\times 10^4$ cm^{-1} and r in Å.

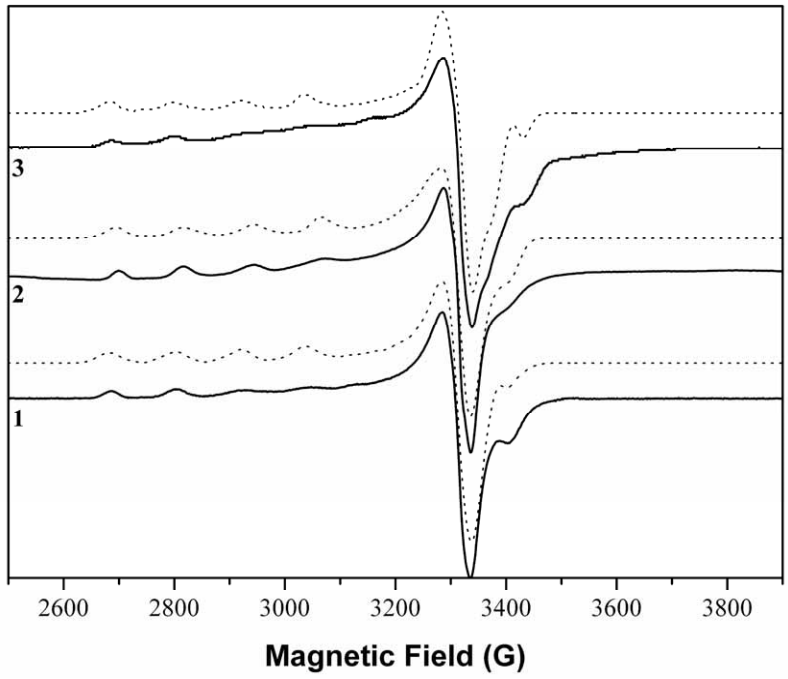

Fig. S1 Experimental (solid) and simulated (dots) EPR spectra of the copper(II) complex and its cascade species. **1)** $Cu_2L^1(ClO_4)_4$ at 106 K 2.70 x 10^{-3} M in DMSO; **2)** $Cu_2L^1(oxa)(ClO_4)_2$ at 104.9 K and 2.20 x 10^{-3} M in DMSO; **3)** $Cu_2L^1(mal)(ClO_4)_2$ at 105.0 K and 7.82 x 10^{-4} M in DMSO. The spectra were recorded at a microwave power of 2.4 mW, modulation amplitude of 1.0 mT and at the frequency (ν) 9.4 GHz.