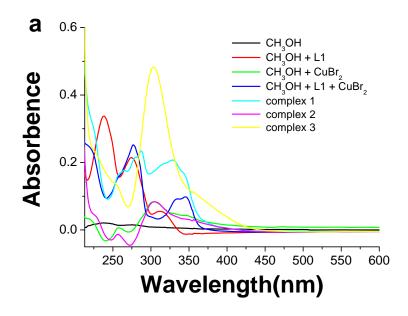
## Electronic Supplementary Information

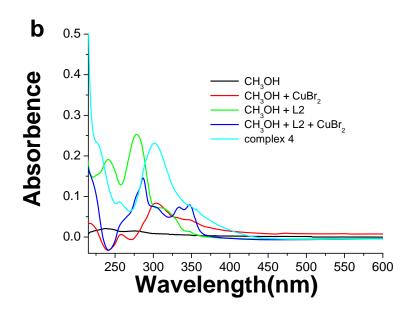
## In Situ Selective N-alkylation of Pendant Pyridyl Functionality in Mixed-Valence Copper Complexes with Methanol and Copper(II) Bromide

Da-Qian Feng, Xiao-Ping Zhou, Ji Zheng, Guang-hui Chen, Xiao-Chun Huang, Dan Li\*

Department of Chemistry, Shantou University, Guangdong 515063, People's Republic of China

<sup>\*</sup> E-mail: dli@stu.edu.cn





**Fig. S1.** The UV-VIS spectra of different reaction filtrates. (a) The ratio between Ligand L1 and CuBr<sub>2</sub> is 1:2 (complex 1), 1:4 (complex 2), and 1:8 (complex 3); (b) The ratio between Ligand L2 and CuBr<sub>2</sub> is 1:4 (complex 4).

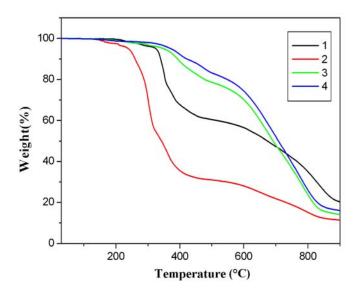


Fig. S2. TGA curves of complexes 1–4.

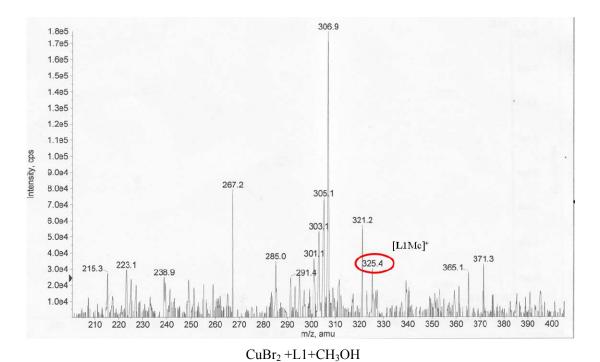
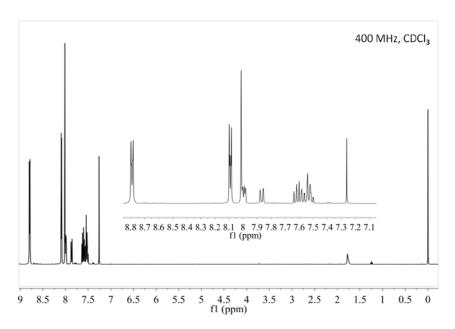


Fig. S3. ESI-Mass spectra of reaction filtrate of complex 1.



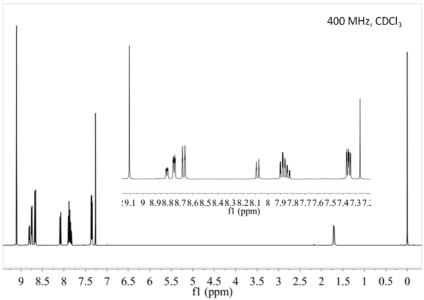
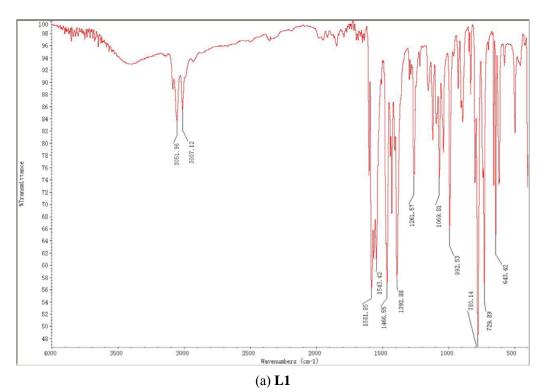
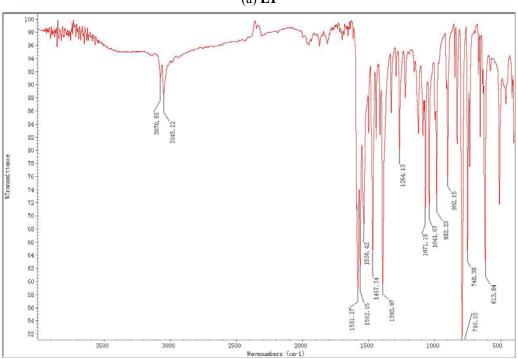
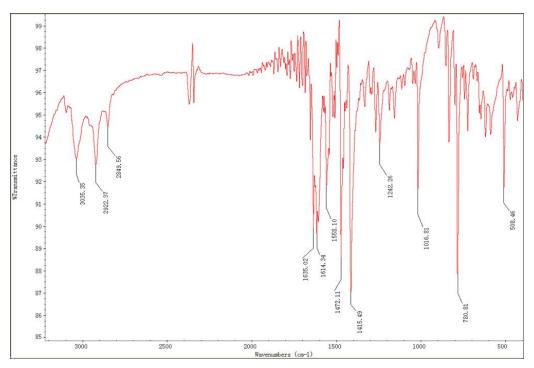


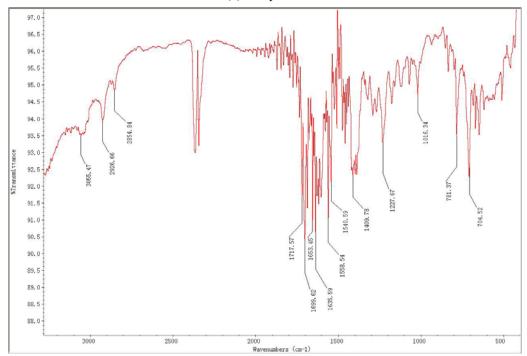
Fig. S4. <sup>1</sup>H NMR spectra of L1 (top) and L2 (bottom).



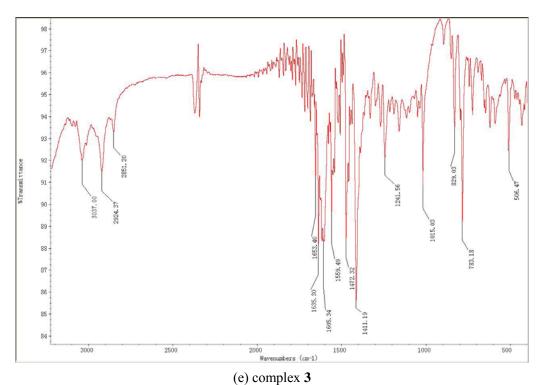




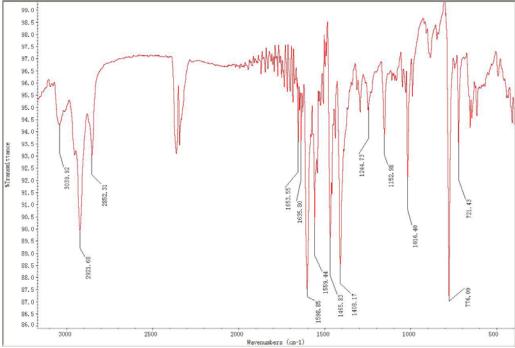




(d) complex 2







(f) complex 4

Fig. S5. IR spectra of ligands and complexes.