

# Supplementary Materials: Hg(II) Coordination Polymers Based on *N,N'*-bis(pyridine-4-yl)formamide

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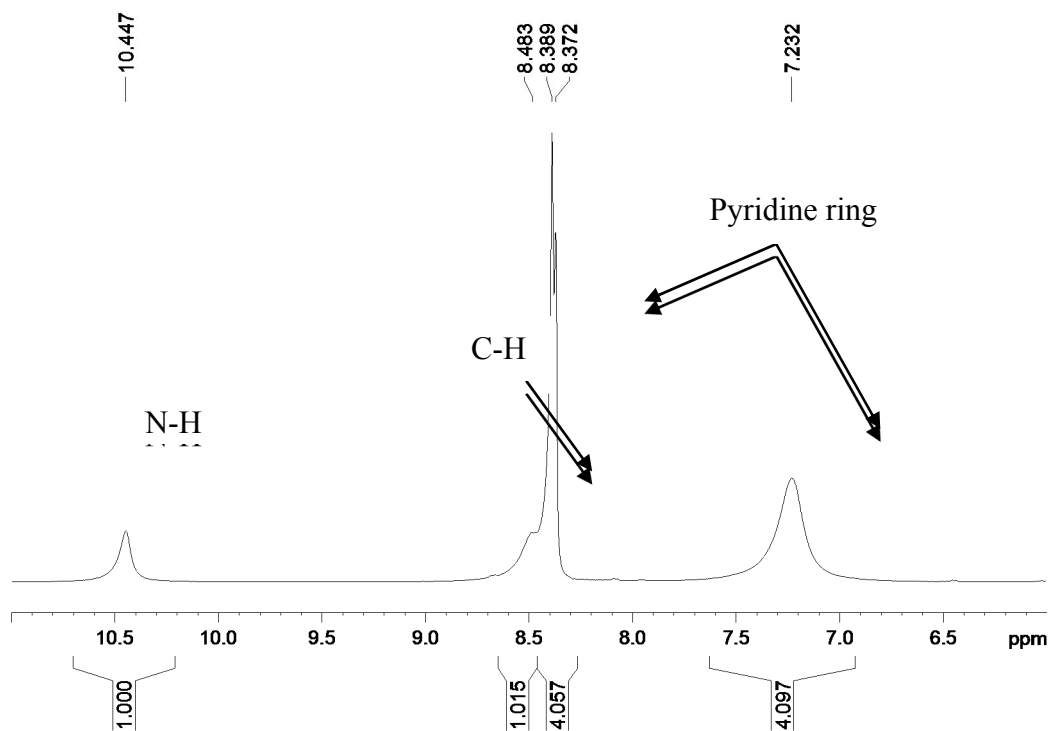


Figure S1. The  $^1\text{H}$  NMR spectrum of 4-Hpyf.

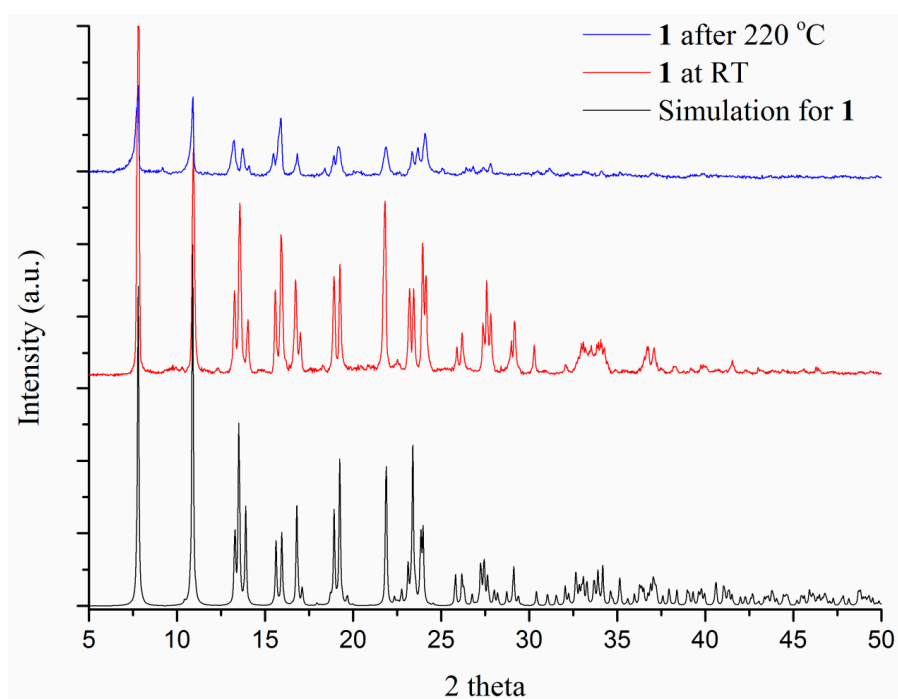


Figure S2. The PXRD patterns for complex 1.

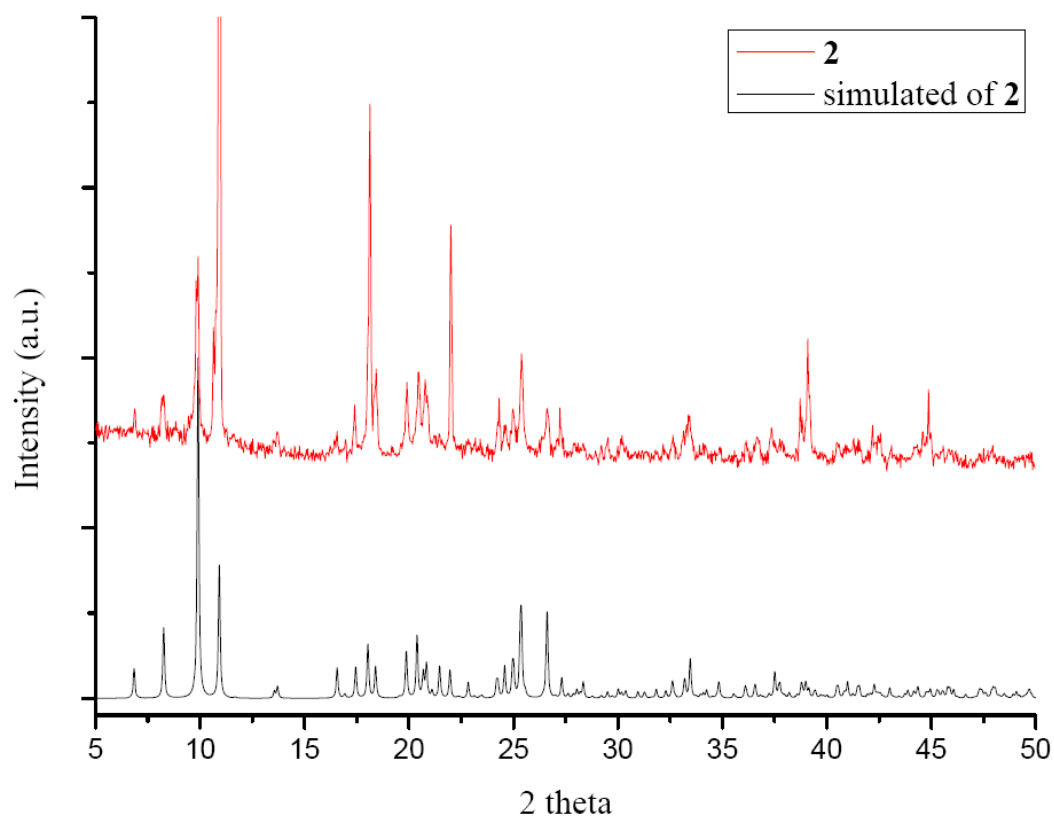


Figure S3. The PXRD patterns for complex 2.

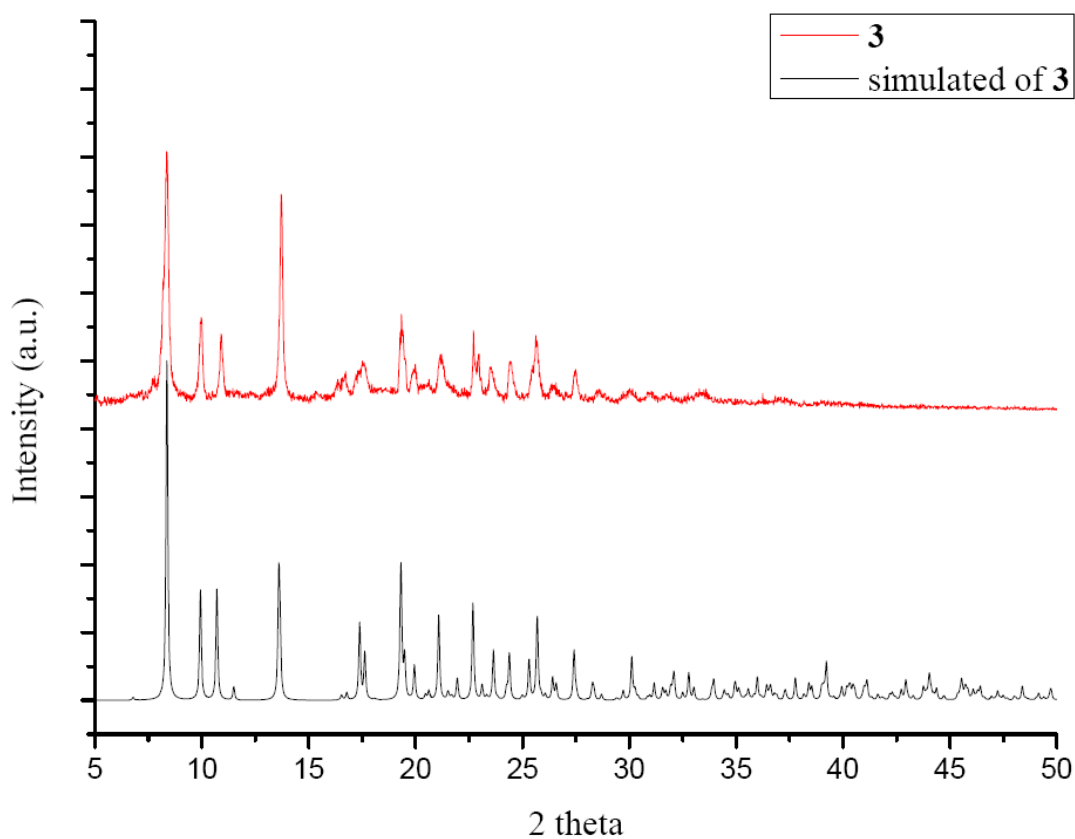


Figure S4. The PXRD patterns for complex 3.

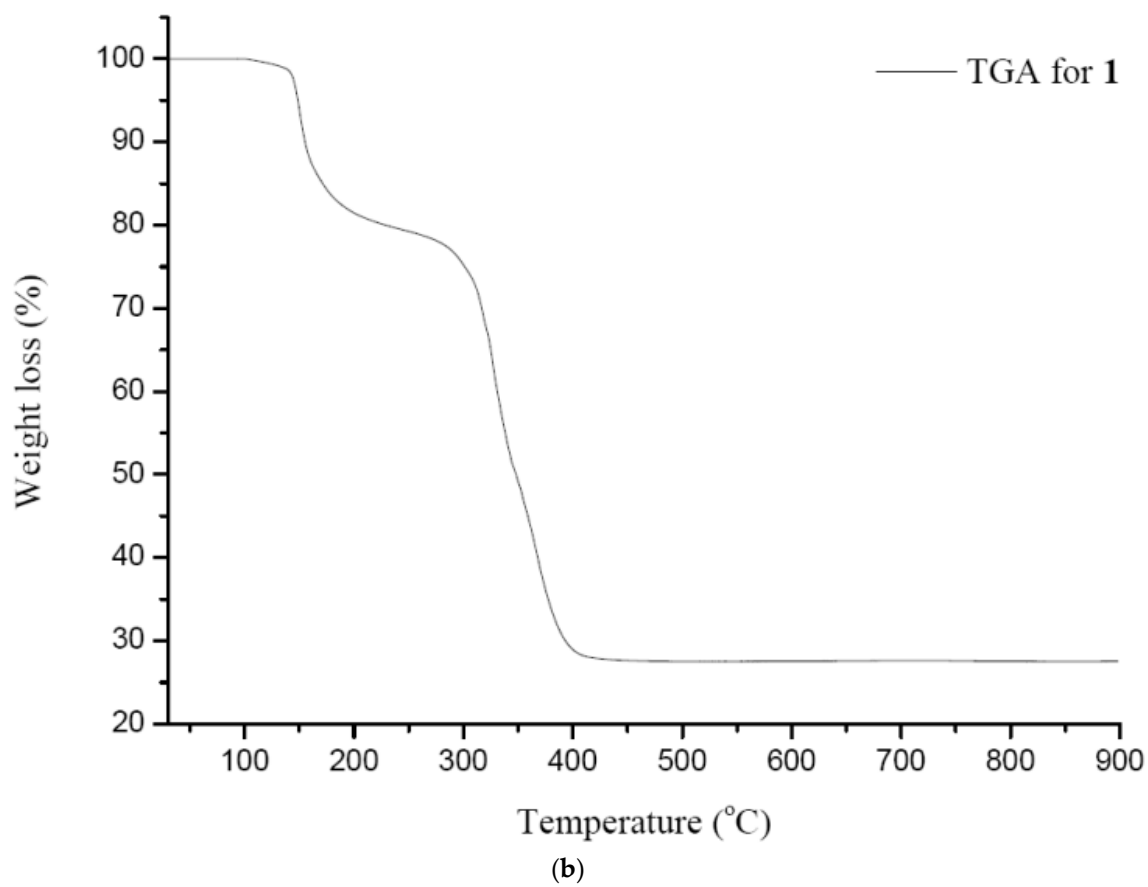
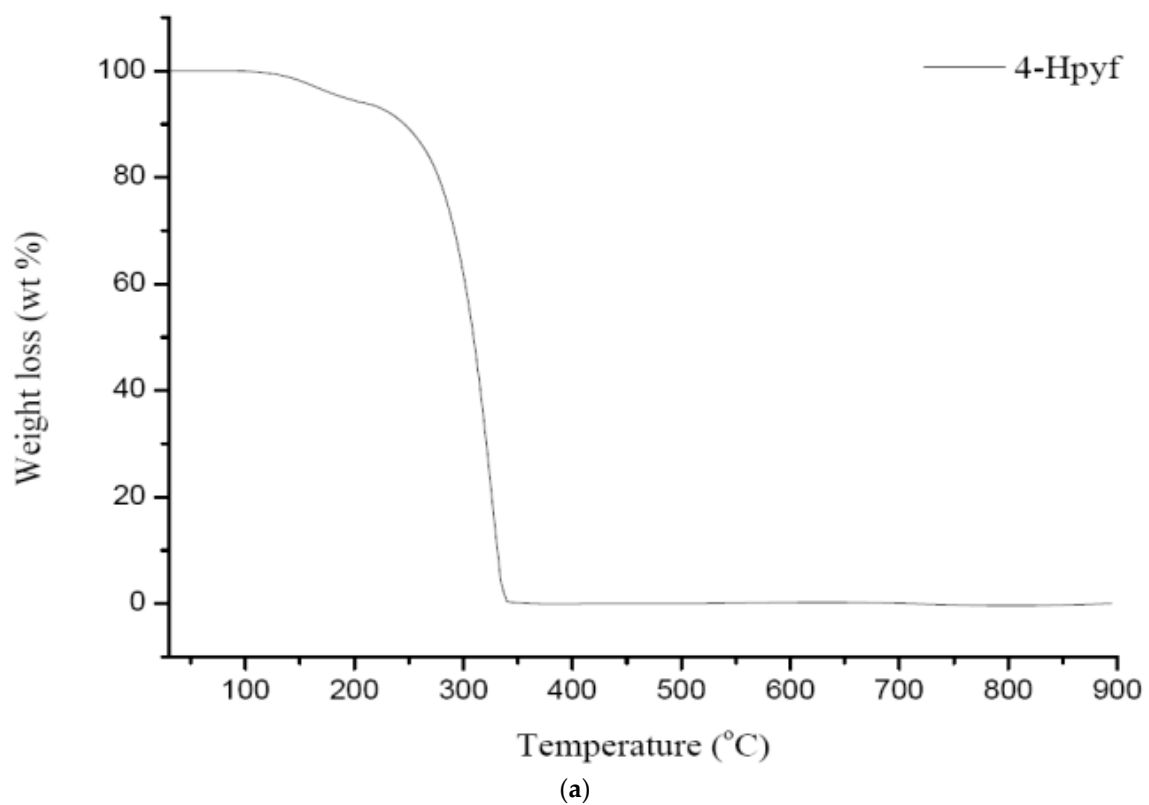


Figure S5. TGA curves for (a) 4-Hpyf and (b) 1.

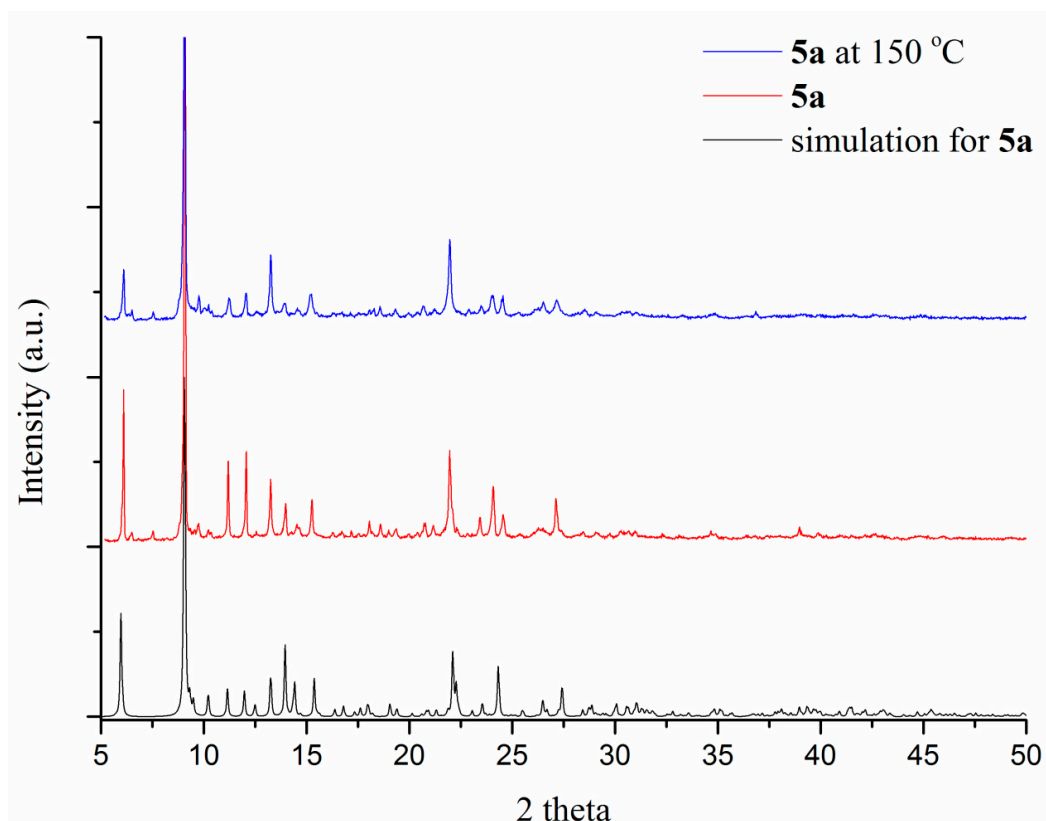


Figure S6. Simulated, experimental and 150 °C powder XRD patterns for 5a.

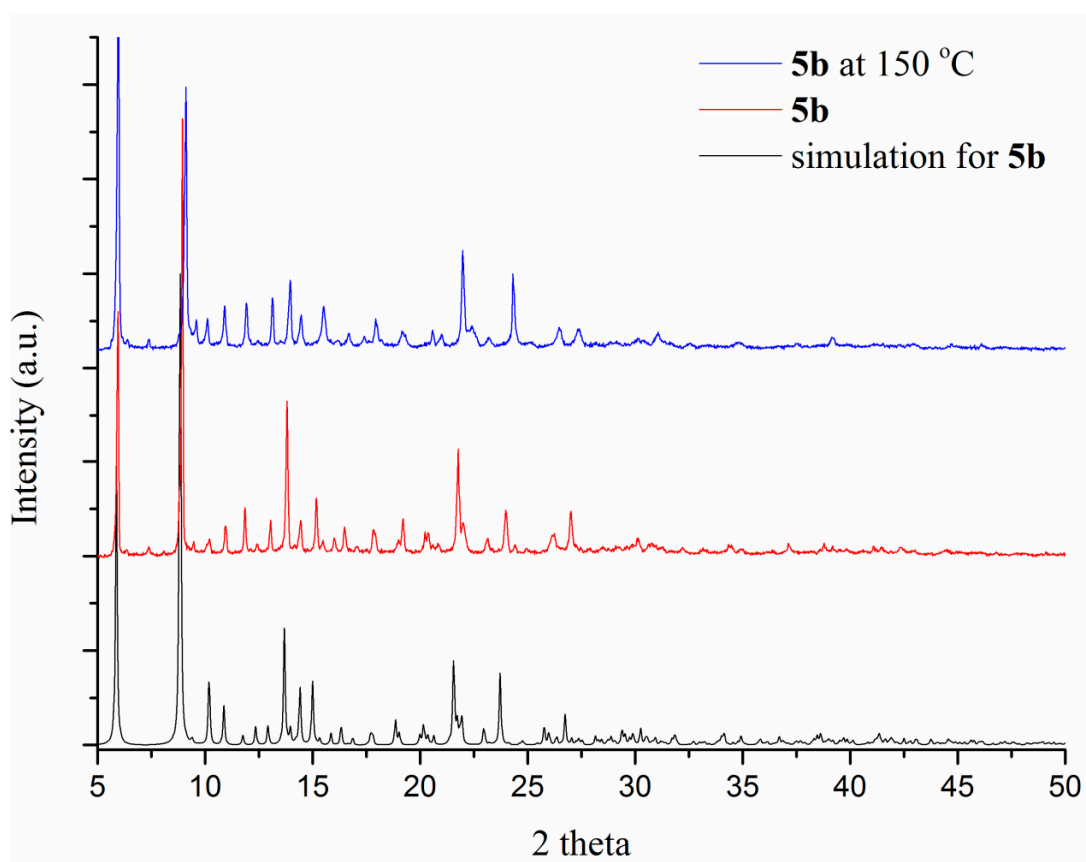
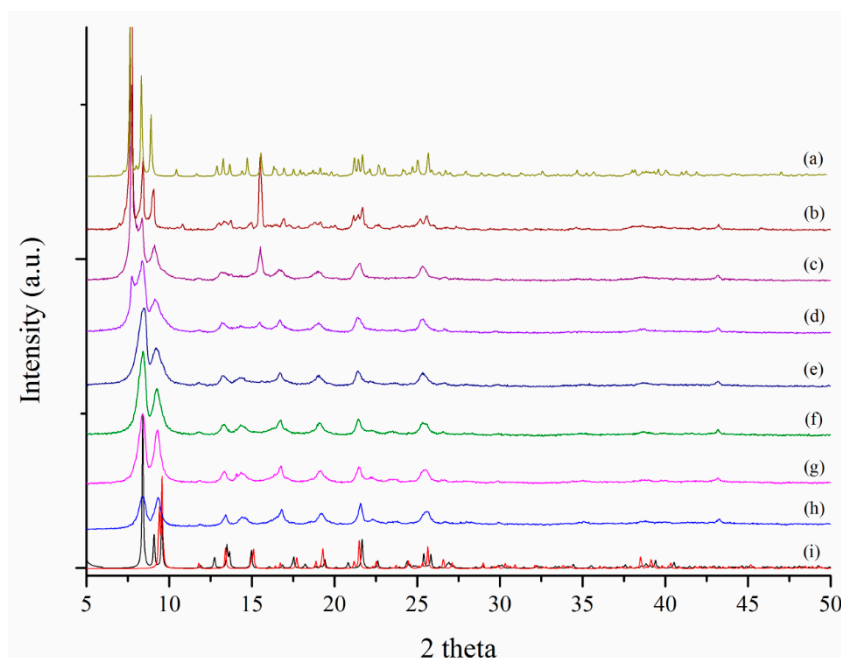
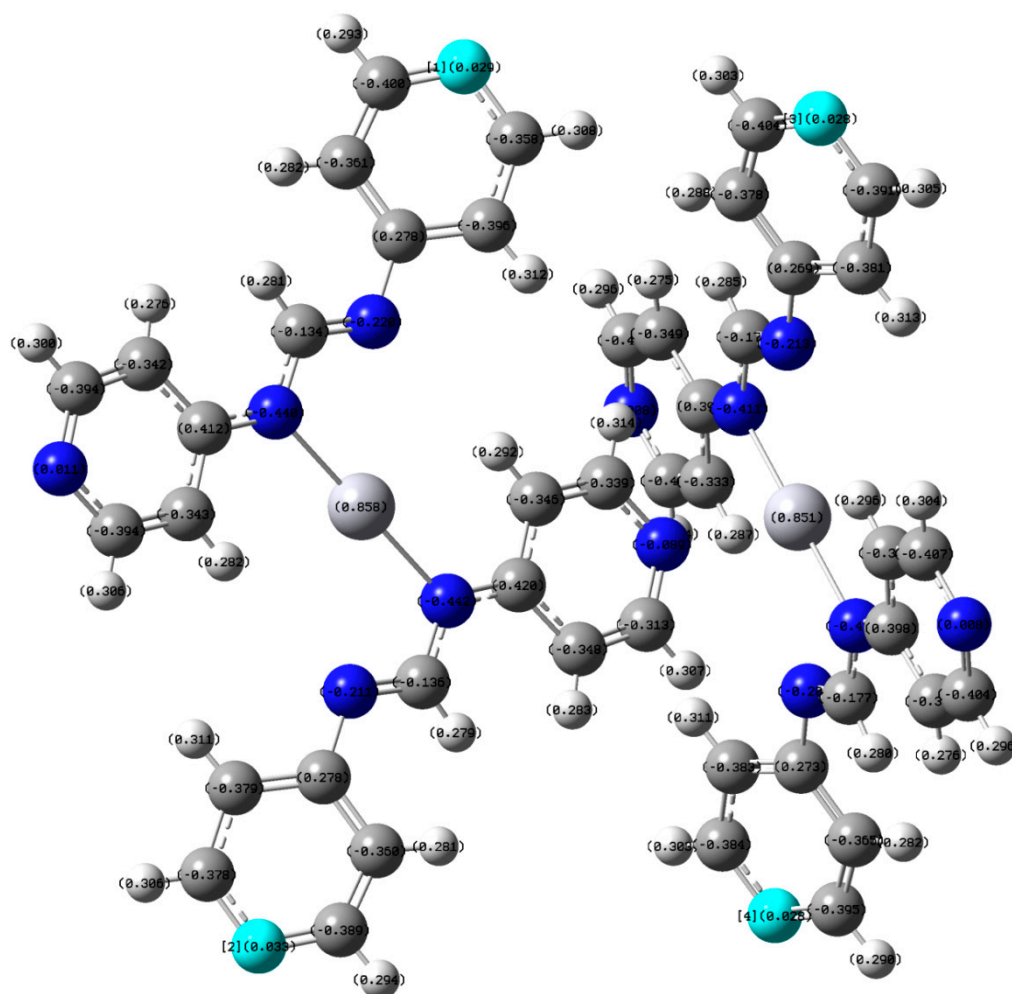


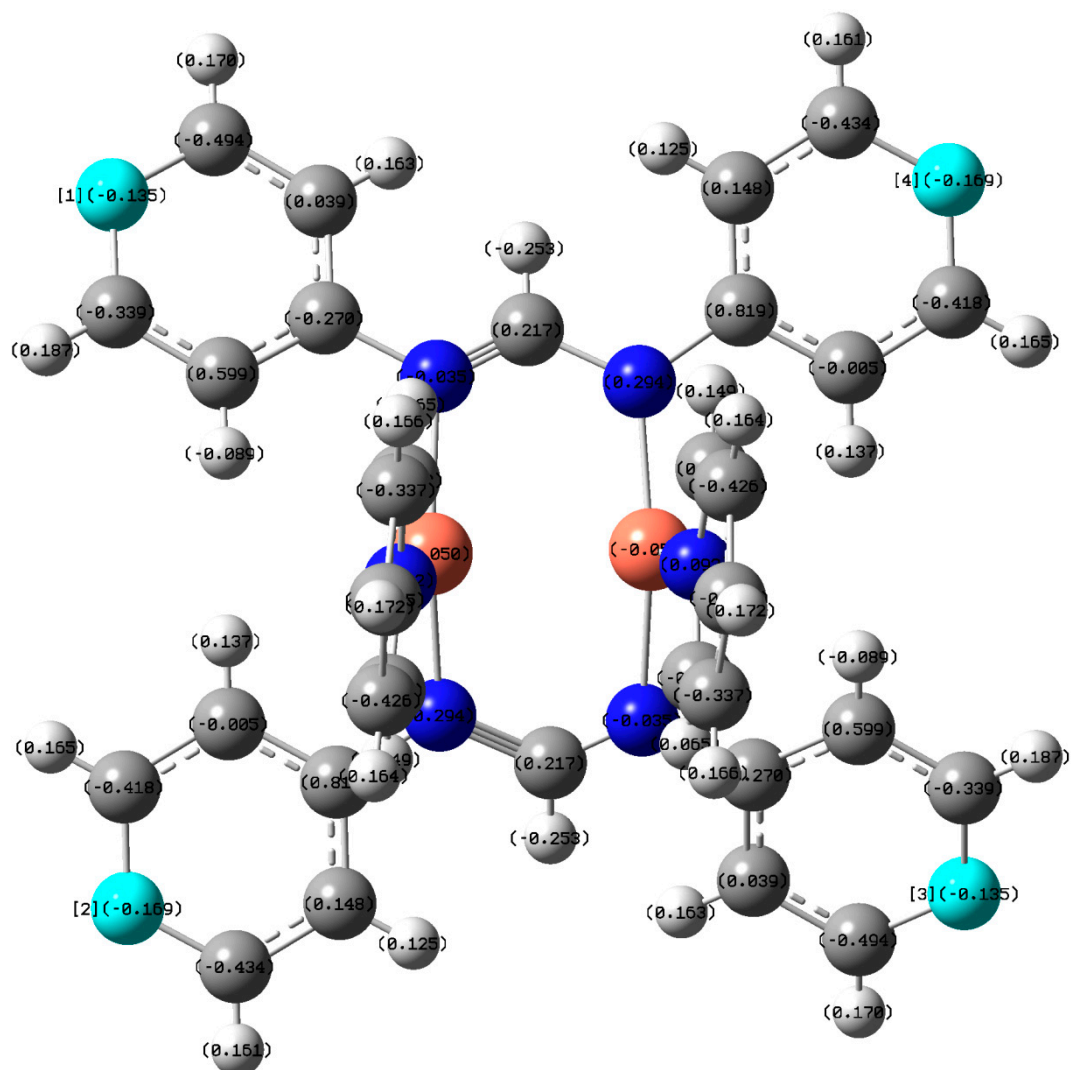
Figure S7. Simulated, experimental and 150 °C powder XRD patterns for 5b.



**Figure S8.** (a) Simulated PXRD patterns for 4 and patterns at (b) 30 °C, (c) 90 °C, (d) 100 °C, (e) 120 °C, (f) 160 °C, (g) 200 °C, (h) 240 °C. (i) Combined simulated patterns for *syn*-[Cu(4-pyf)]<sub>n</sub>.



**Figure S9.** The Mulliken charge in asymmetric units for complex 1. The outward dangling pyridyl atoms are shown with light blue color.



**Figure S10.** The Mulliken charge in asymmetric units for complex 4. The outward dangling pyridyl atoms are shown with light blue color.



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