

[Electronic Supplementary Information (ESI)]

**Structural controls of 2-D sheet copper(I) ethylene and carbonyl coordination polymers directed by anions and solvents**

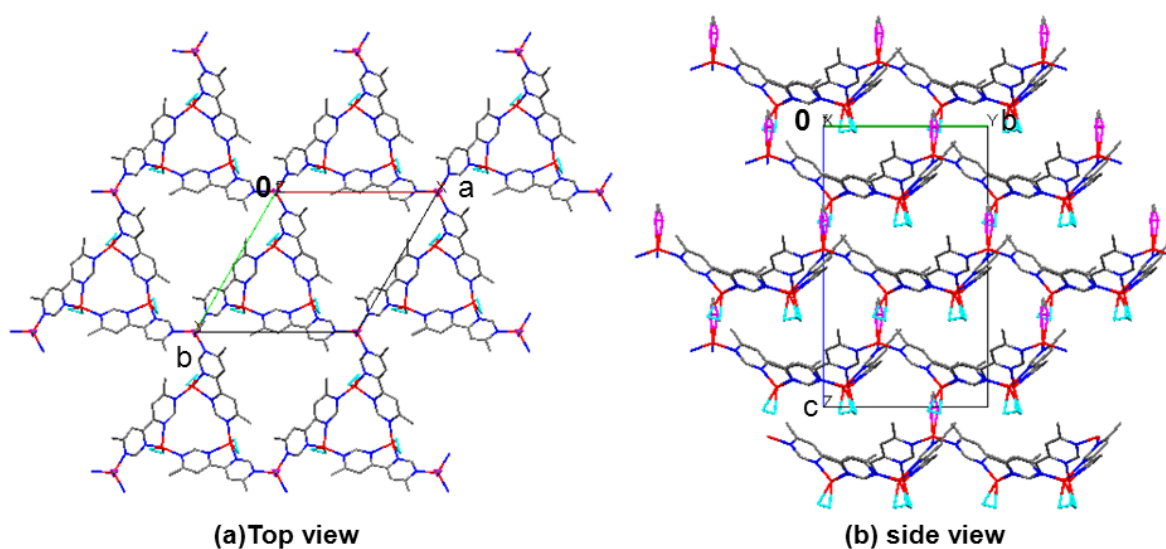
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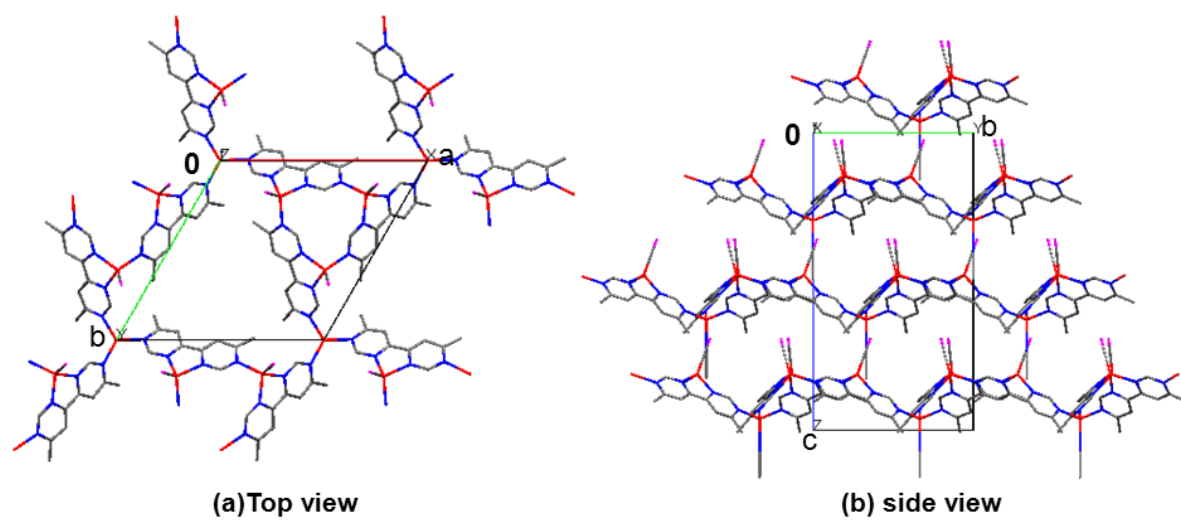
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**Fig. S-1** X-ray crystal packing structures of complex **3** along c-axis (a) and a-axis (b). The encapsulating ClO<sub>4</sub><sup>-</sup> anions were omitted for clarity.



**Fig. S-2** X-ray crystal packing structures of complex **4** along c-axis (a) and a-axis (b). The encapsulating MeCN and  $\text{PF}_6^-$  anions were omitted for clarity.