

Supplementary Figures

Cadmium Bis(4-pyridylformyl)piperazine Coordination Polymers: Layered Nets and a Novel 3,5-Connected Binodal Lattice

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Figure S1. Powder XRD spectrum of **1**. Predicted peaks from the single crystal structures are shown as thin lines.

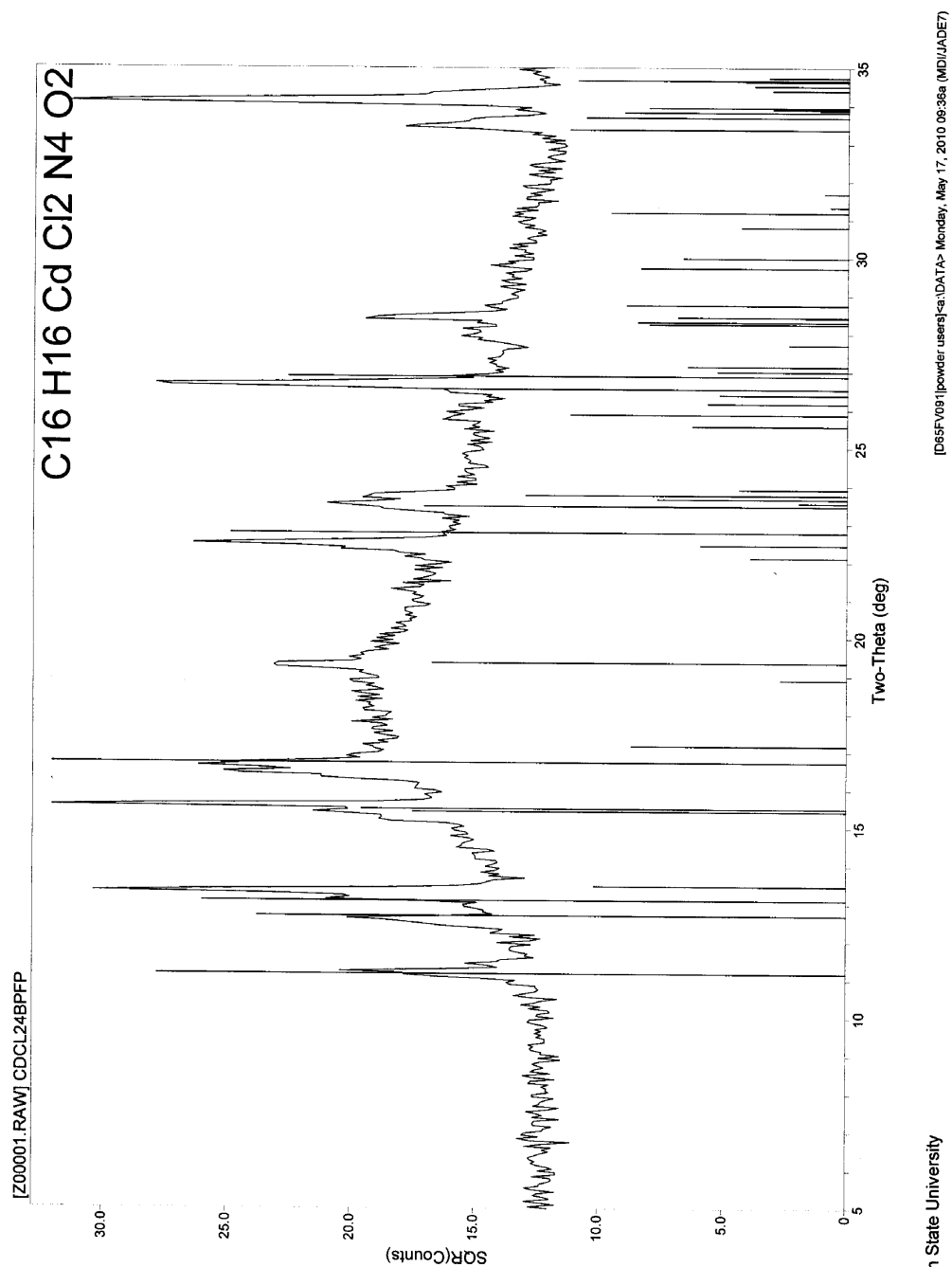
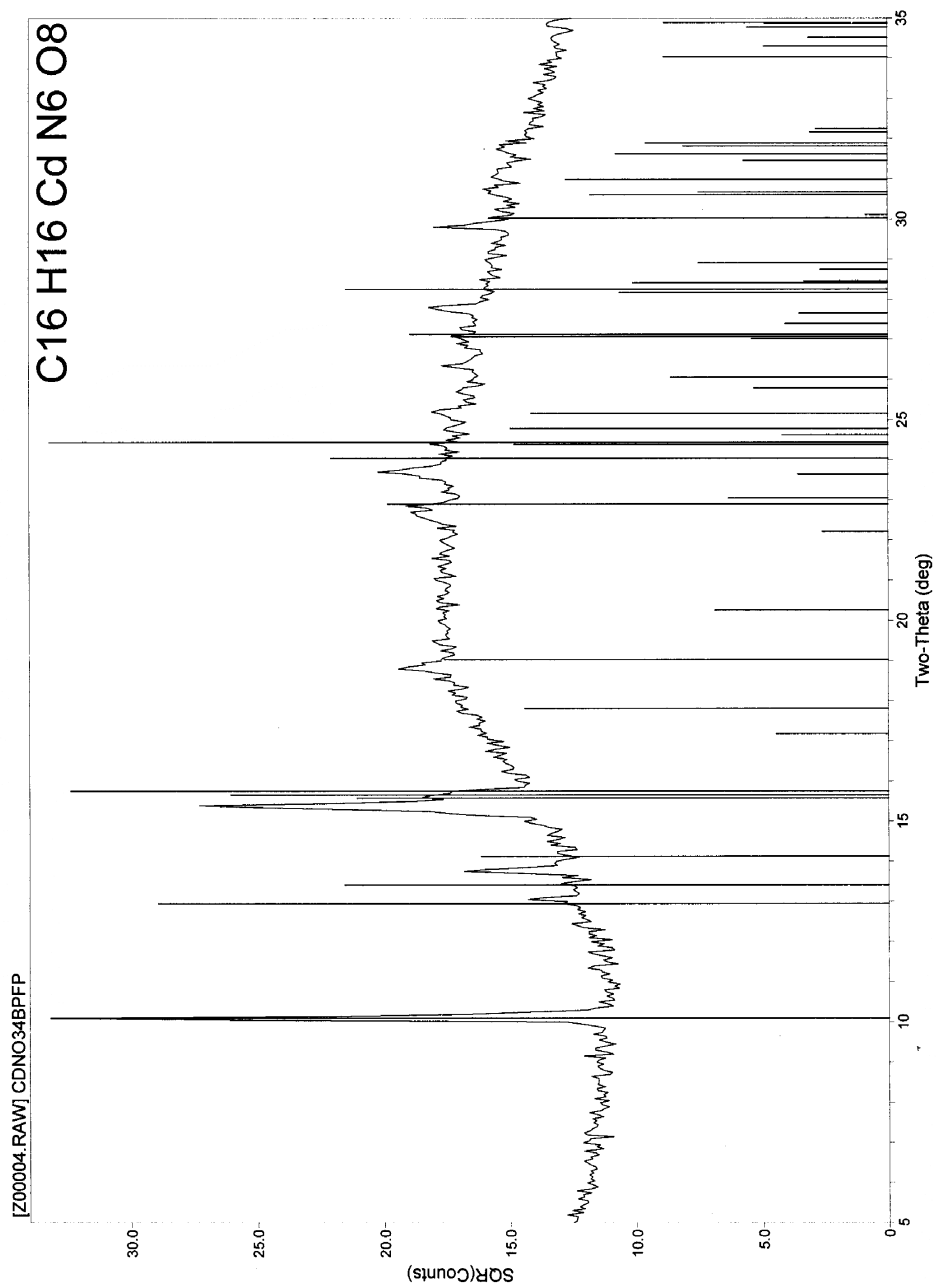


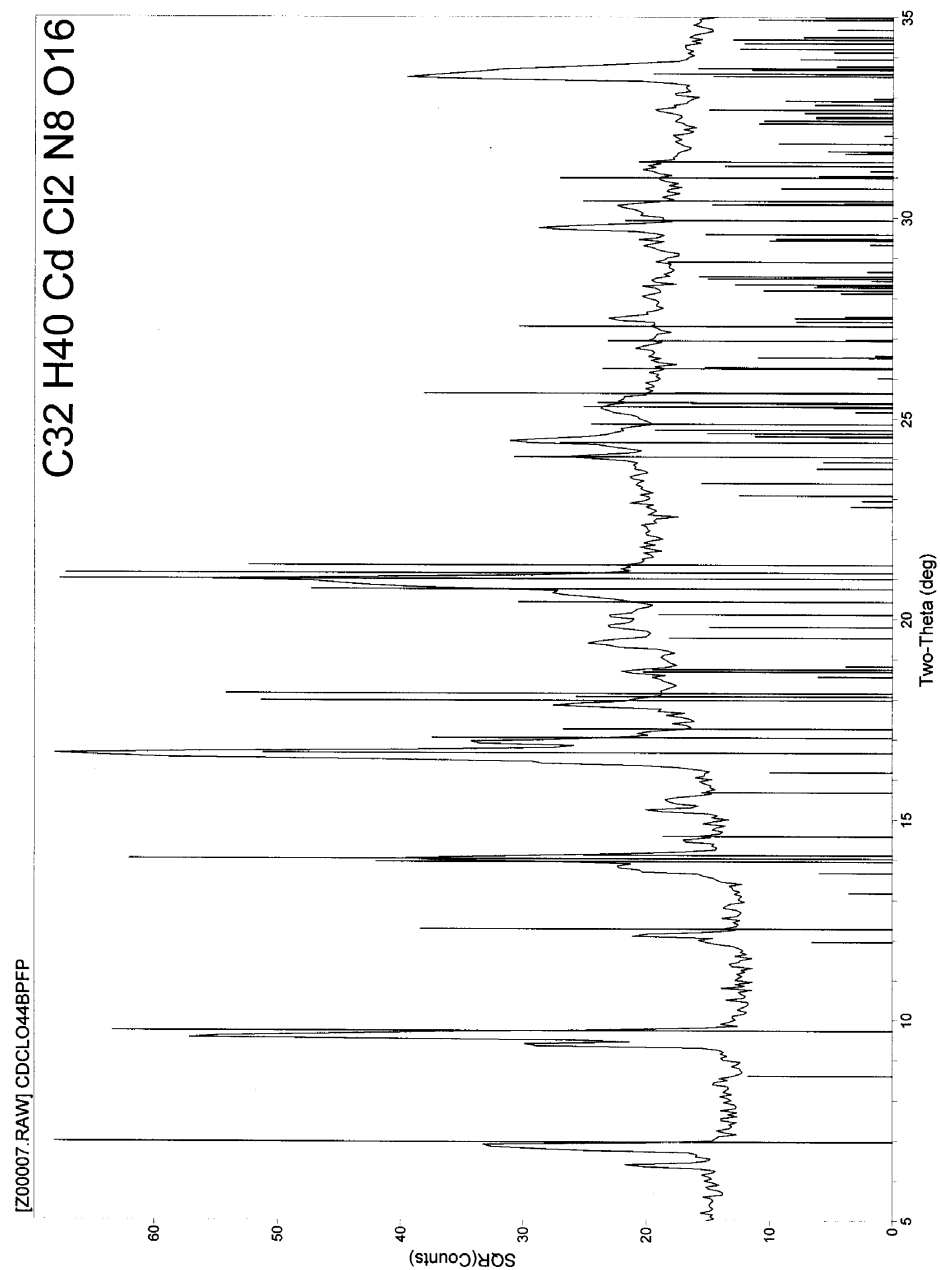
Figure S2. Powder XRD spectrum of **2**. Predicted peaks from the single crystal structures are shown as thin lines.



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[D65FV051] powder users\<a>DATA> Monday, May 17, 2010 09:40a (MDUJADE7)

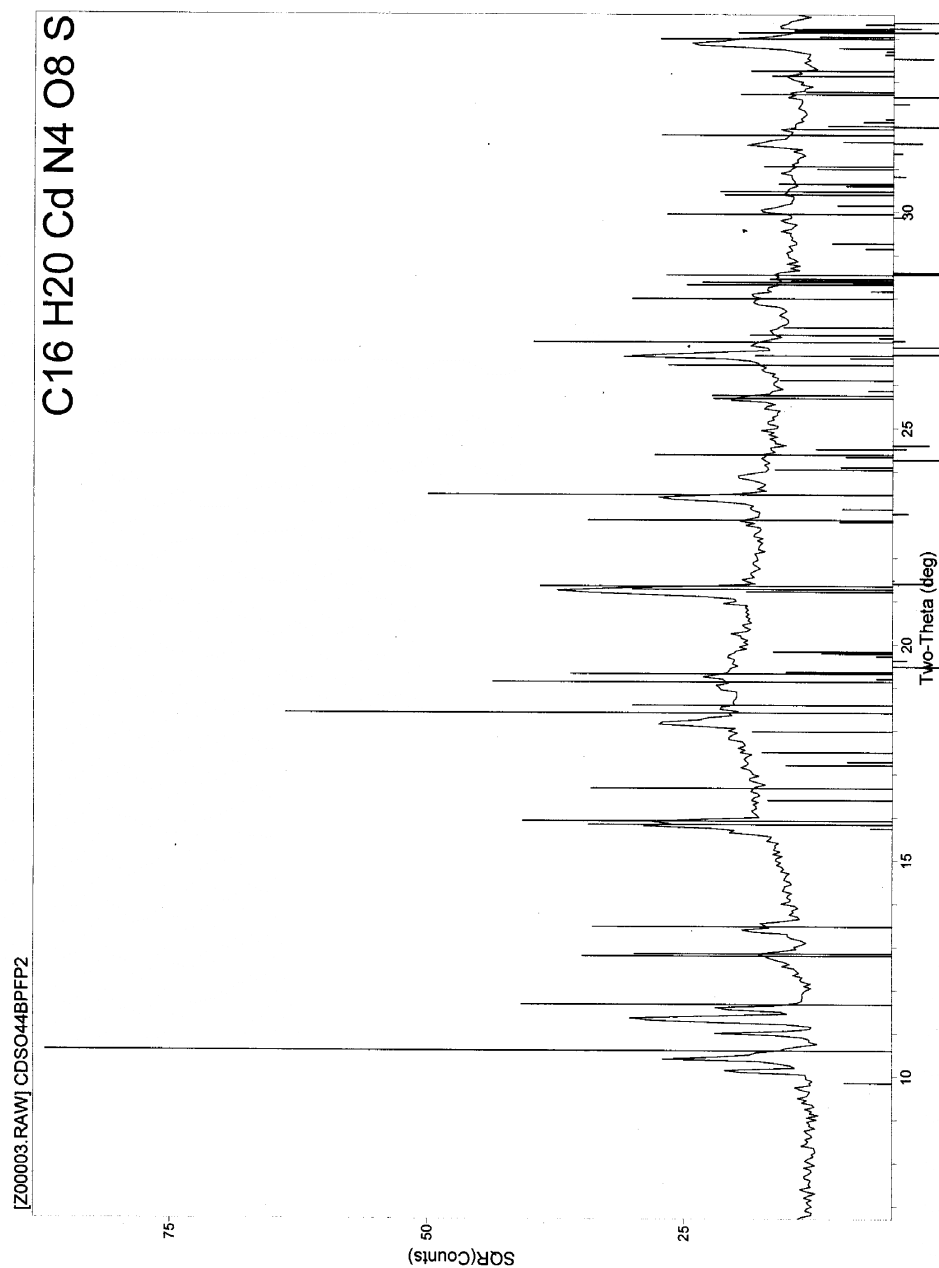
Figure S3. Powder XRD spectrum of **3**. Predicted peaks from the single crystal structures are shown as thin lines.



Michigan State University

[D65FV081] powder users] -a \DATA> Tuesday, May 25, 2010 09:28a (MDUJADE7)

Figure S4. Powder XRD spectrum of **4**. Predicted peaks from the single crystal structures are shown as thin lines.



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[D65FV09] powder user's <a>DATA> Monday, May 17, 2010 08:38a (MDI/JADE7)

Figure S5. AAA stacking pattern of layers in **1**.

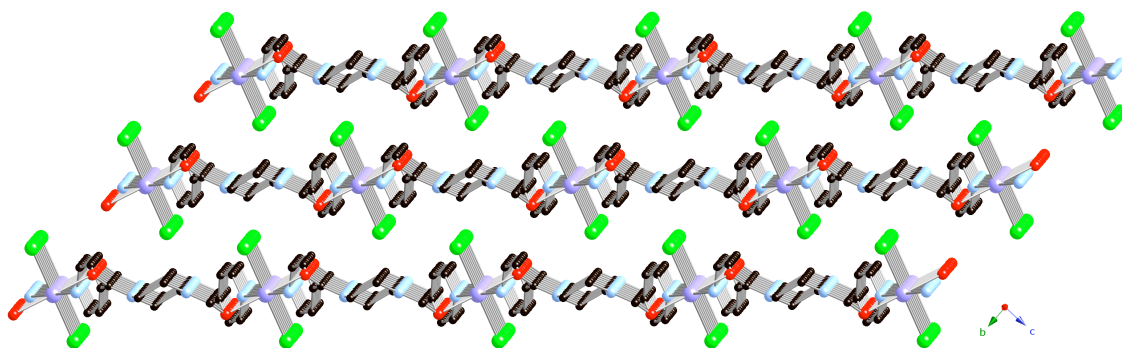


Figure S6. AAA stacking pattern of layers in **2**.

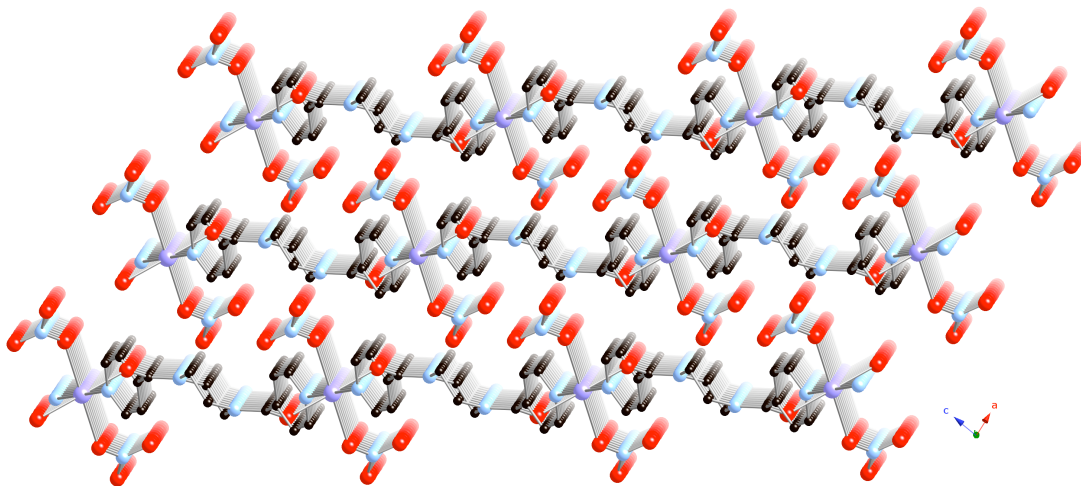


Figure S7. Polymeric layer motif in **3**.

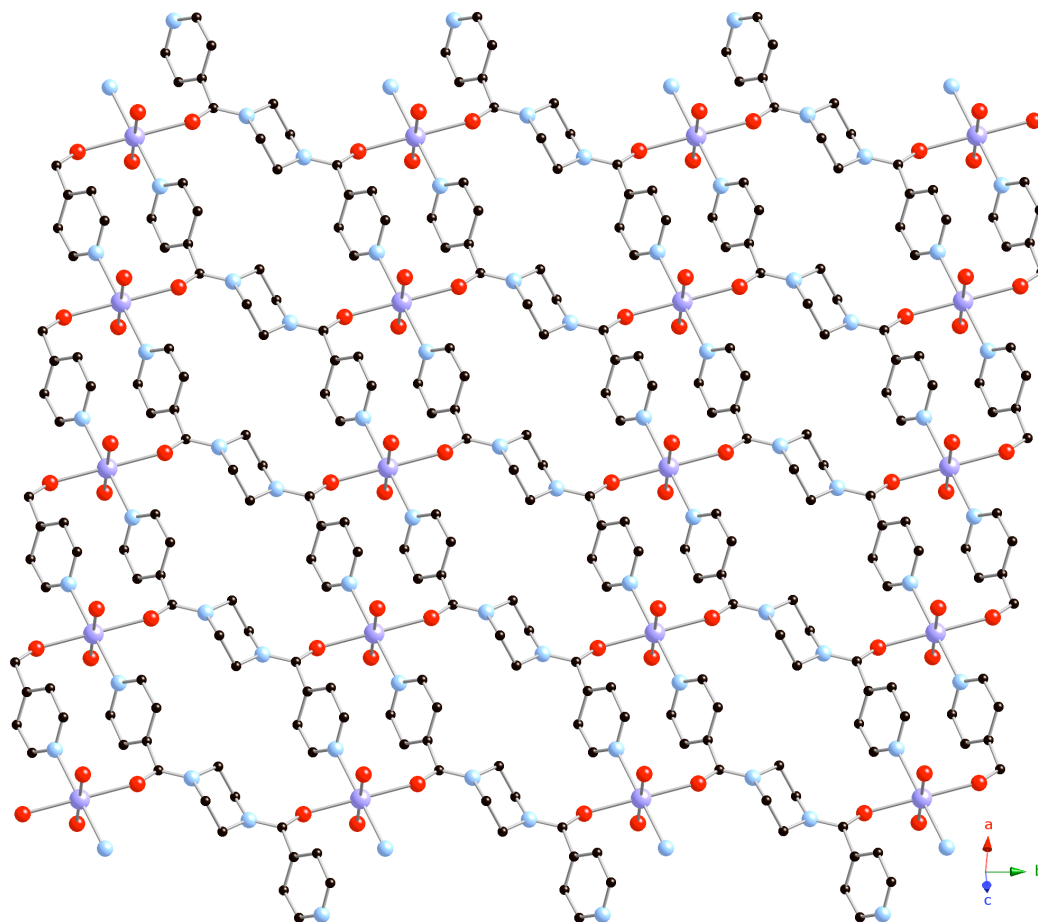


Figure S8. 4.8^2 topology 3-connected cadmium sulfate layer in **4**.

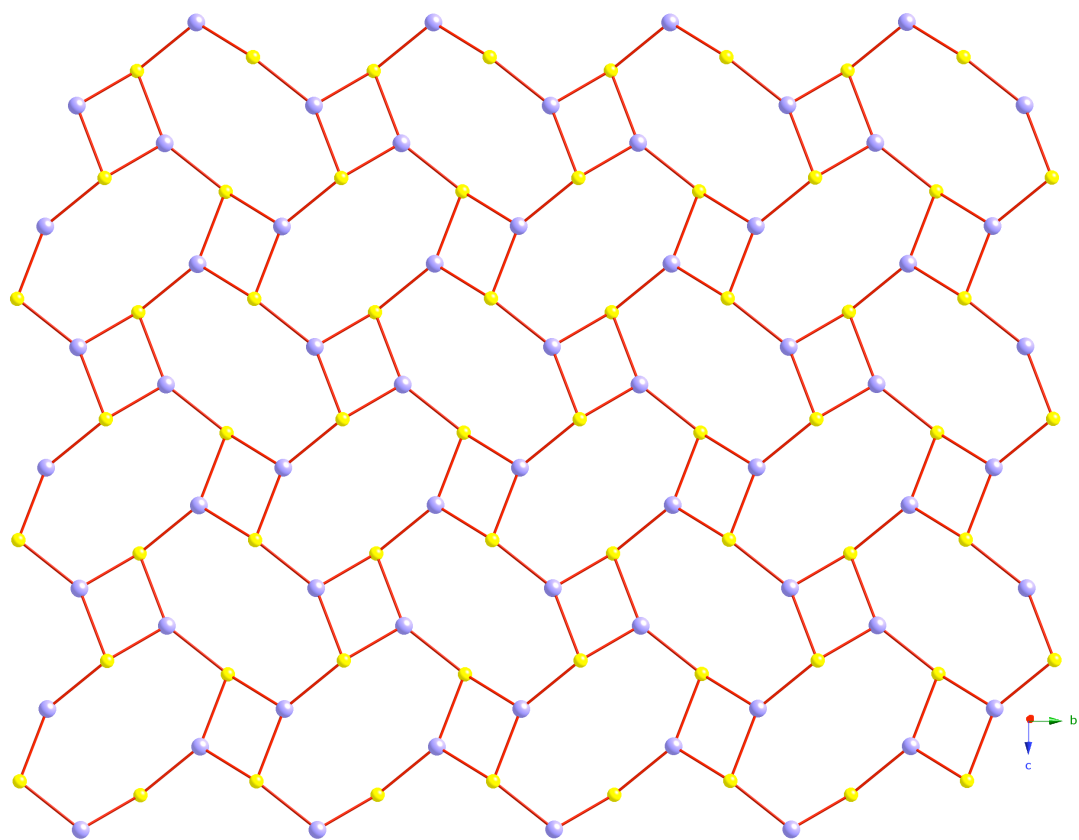
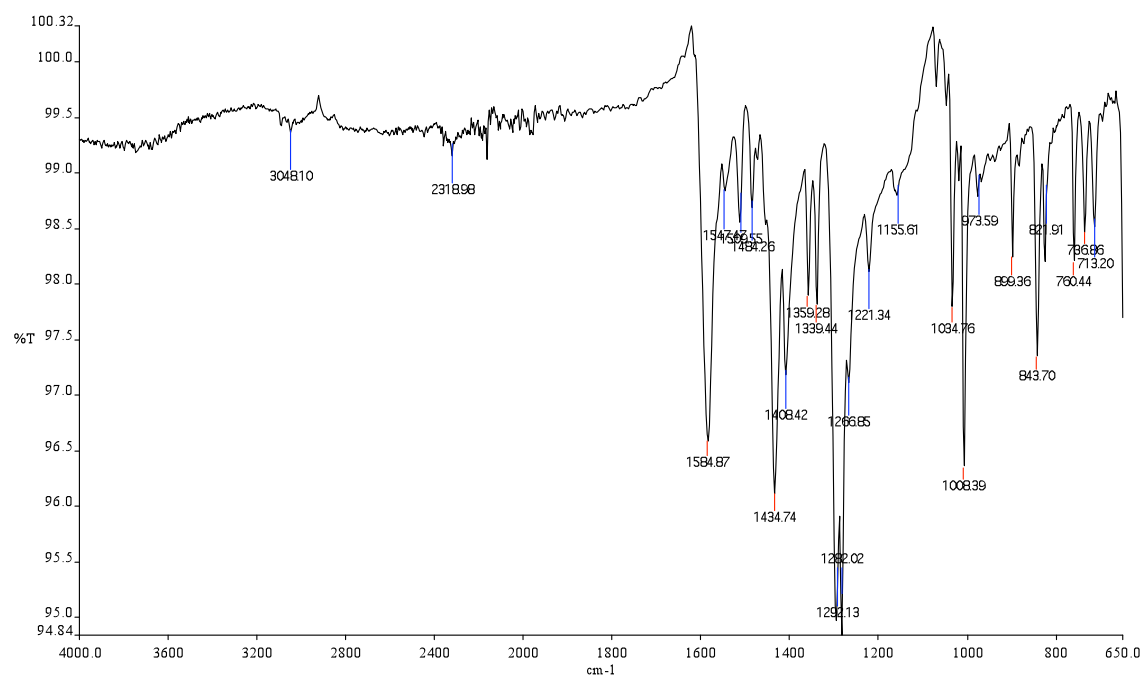


Figure S9. IR spectrum of **3** after immersion in 3.0 M NaNO₃ (aq) for 48 h.



STANDARD PROTON PARAMETERS

Pulse Sequence: s2pul

Solvent: CDCl₃
Temp. 25.0 C
UNITYplus-500 "mut"

Relax. delay 10.000 sec
Pulse 58.4 degrees
Acq. time 4.000 sec
Width 8000.0 Hz
16 repetitions
OBSERVE H1, 499.7356771 MHz
DATA PROCESSING
FT size 131072
Total time 3 min, 44 sec

