

SUPPLEMENTARY INFORMATION

Metal-Organophosphine and Metal- Organophosphonium Frameworks with Layered Honeycomb-like Structures

Simon M. Humphrey^{*†‡} *Phoebe K. Allan*[†] *Shaunt E. Oungouliau*[†] *Matthew S. Ironside*[†] and
Erica R. Wise[†]

University Chemical Laboratory, University of Cambridge, Lensfield Road, Cambridge CB2
1EW, U.K. and St John's College, Cambridge CB2 1TP, U.K.

Email: smh49@cam.ac.uk.

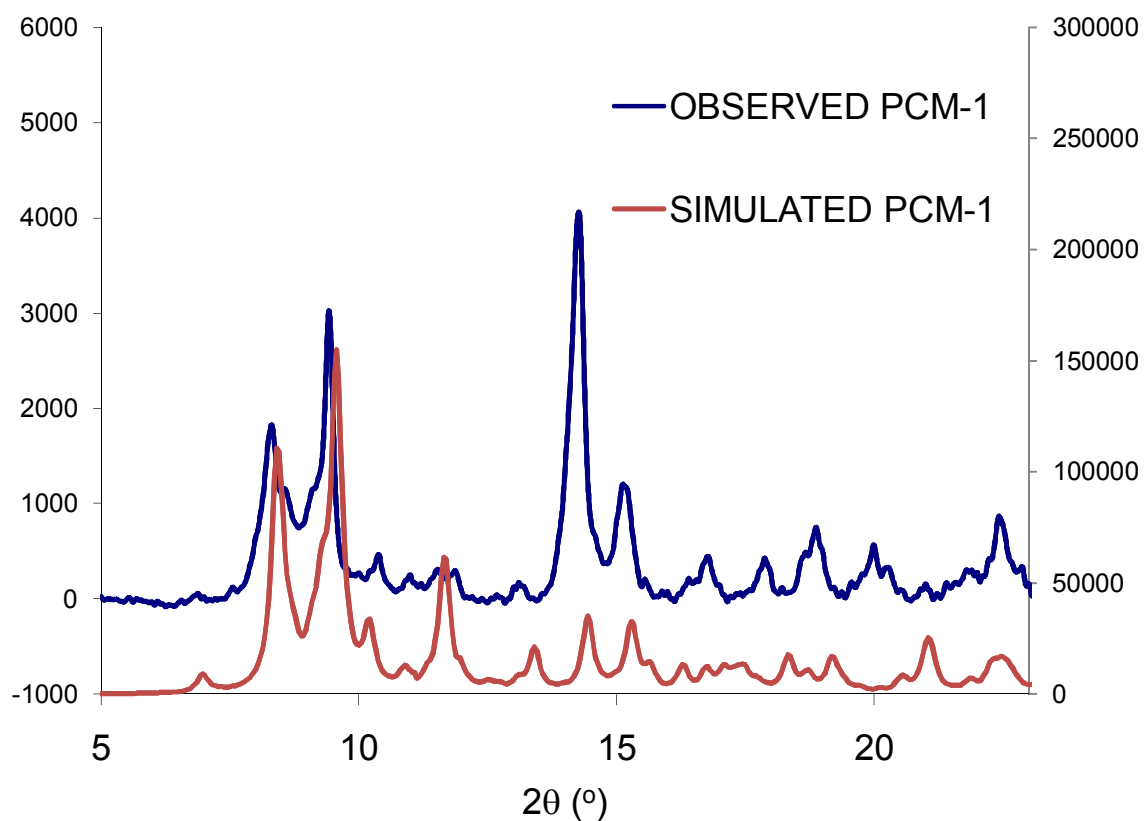


Figure S1. XRPD for PCM-1; for the dehydrated powder diffraction pattern of PCM-1 (above) the a -axis length was found to double ($a = 88.38 \text{ \AA}$) as a result of lowering of cell symmetry from orthorhombic to monoclinic. This can be rationalized based on the structure of PCM-1, wherein the pair of unique residues in the asymmetric unit become equivalent upon loss of DMF solvent.

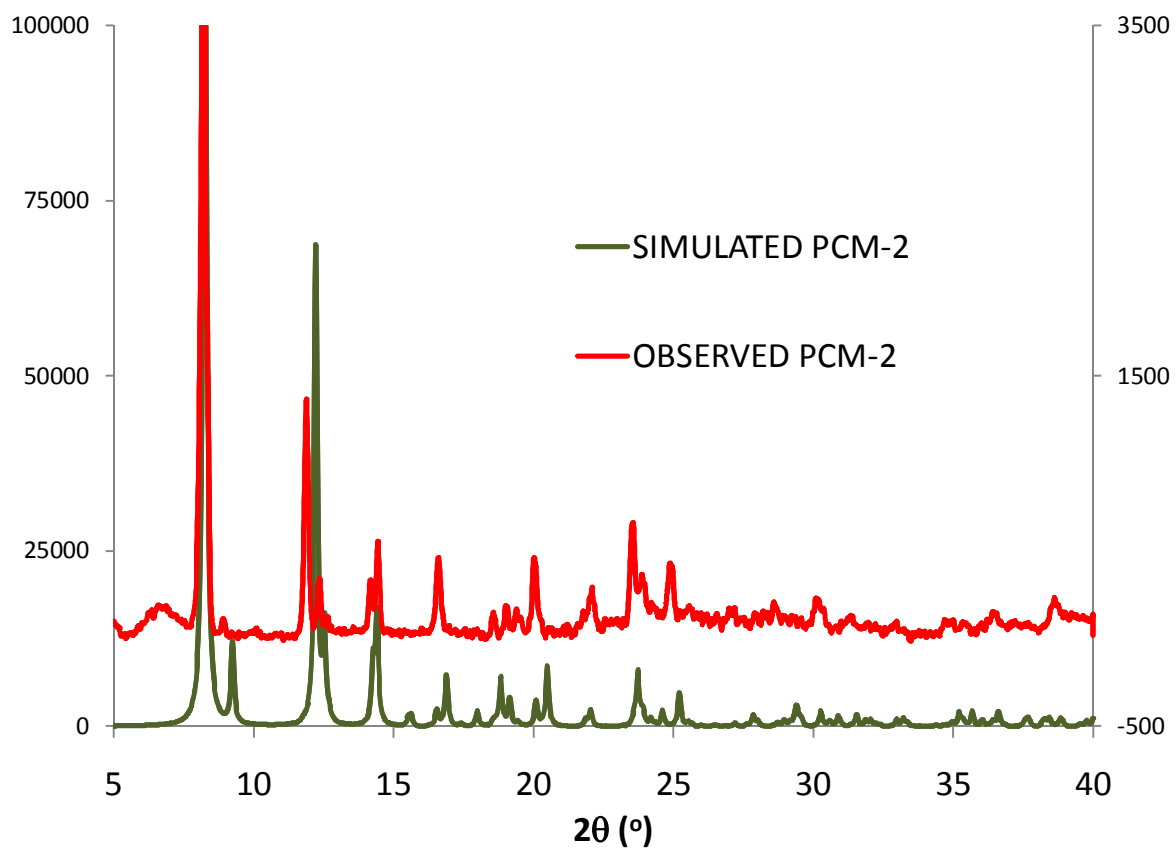


Figure S2. XRPD for PCM-2

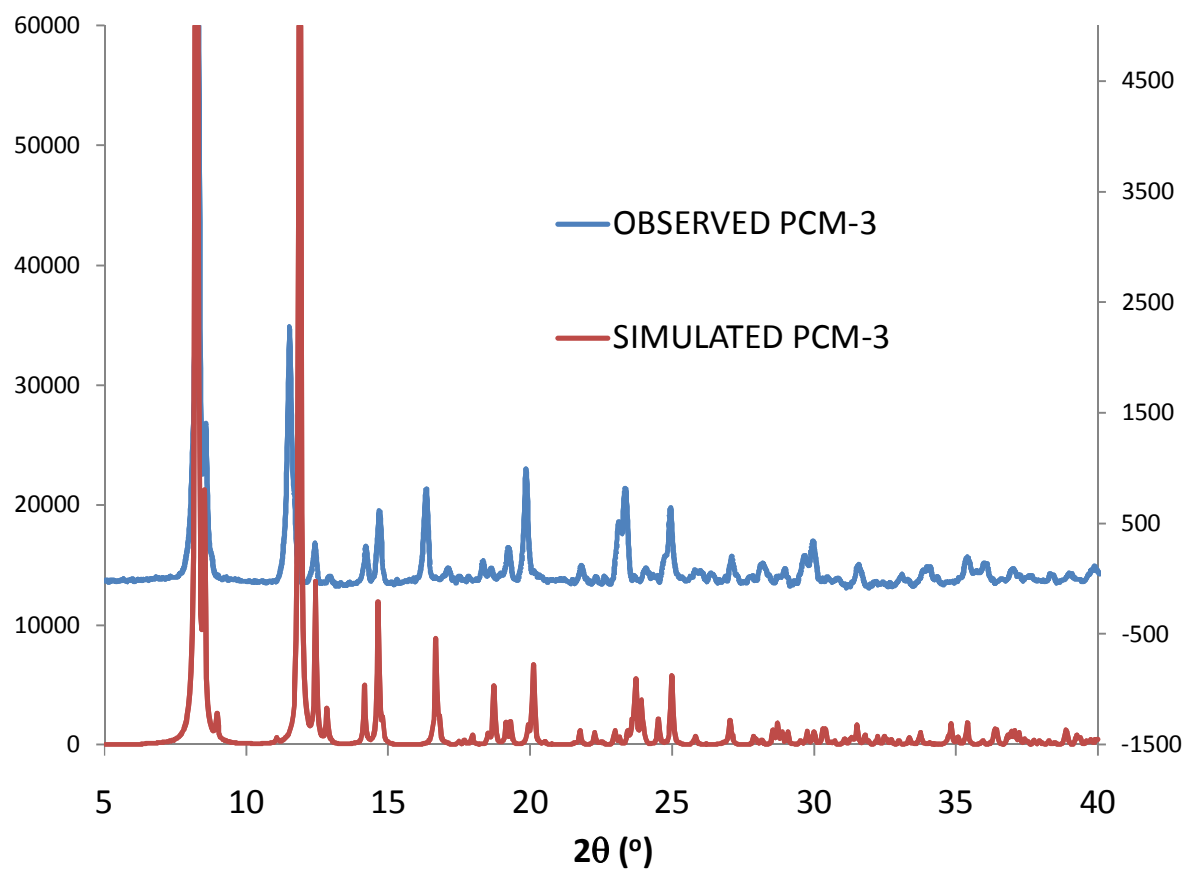


Figure S3. XRPD for PCM-3

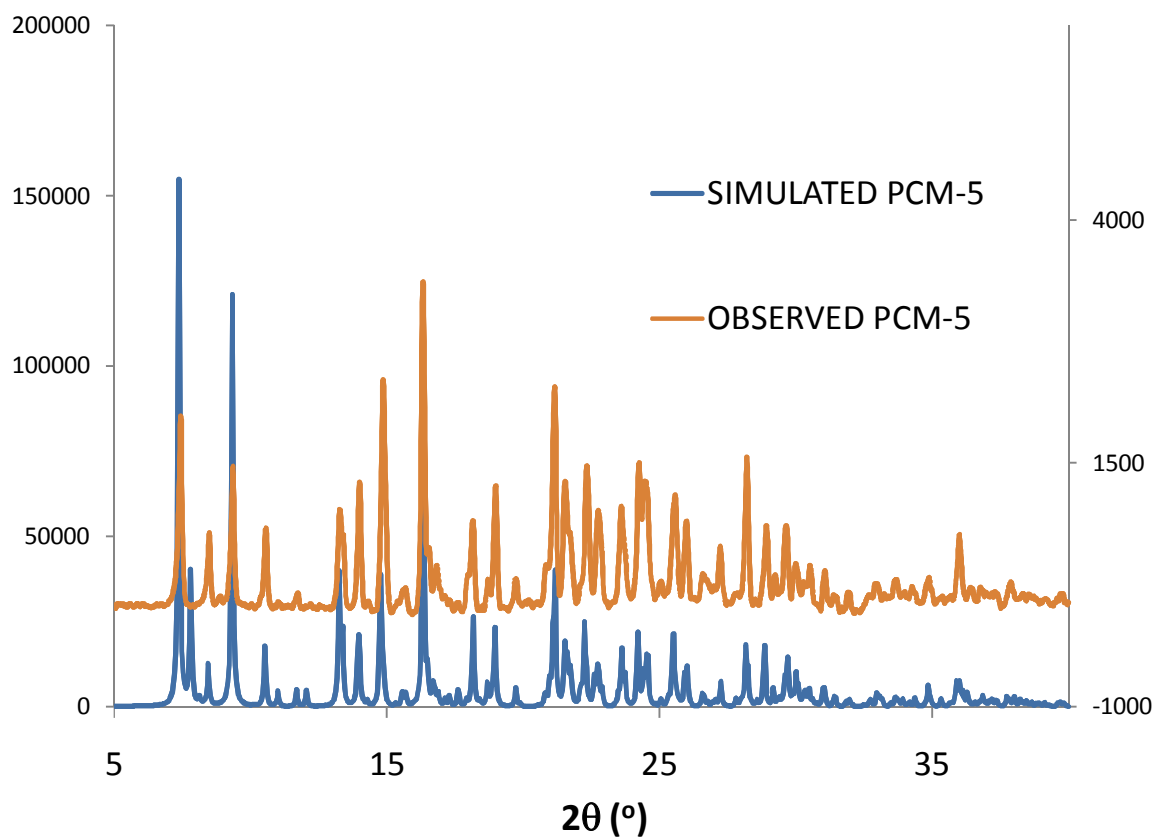


Figure S4. XRPD for PCM-5