

Supporting Information

Isorecticular Metal-Organic Polyhedral Networks Based on 5-Connecting Paddlewheel Motifs

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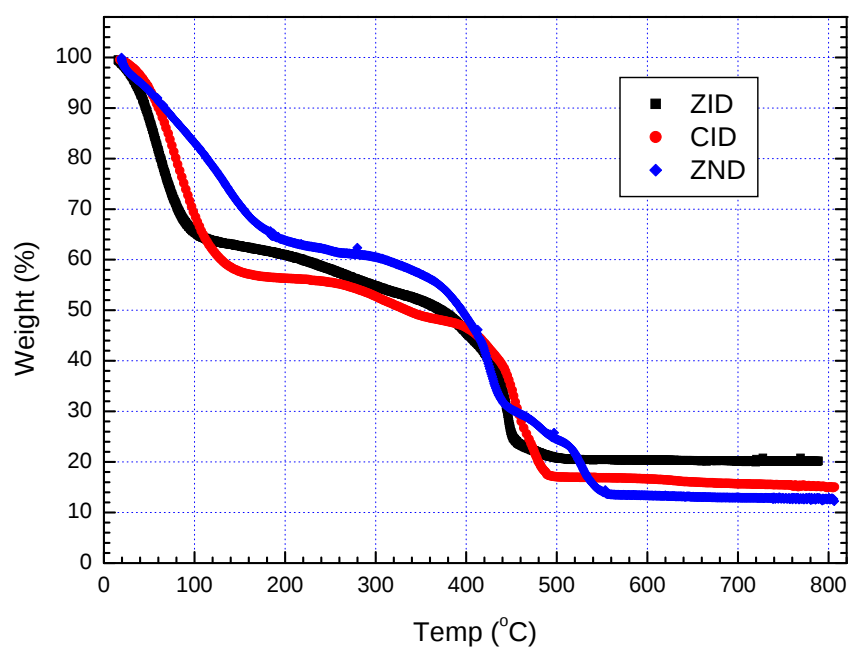


Figure S1. TGA profiles of ZID, CID and ZND after guest-exchange with CHCl_3 .

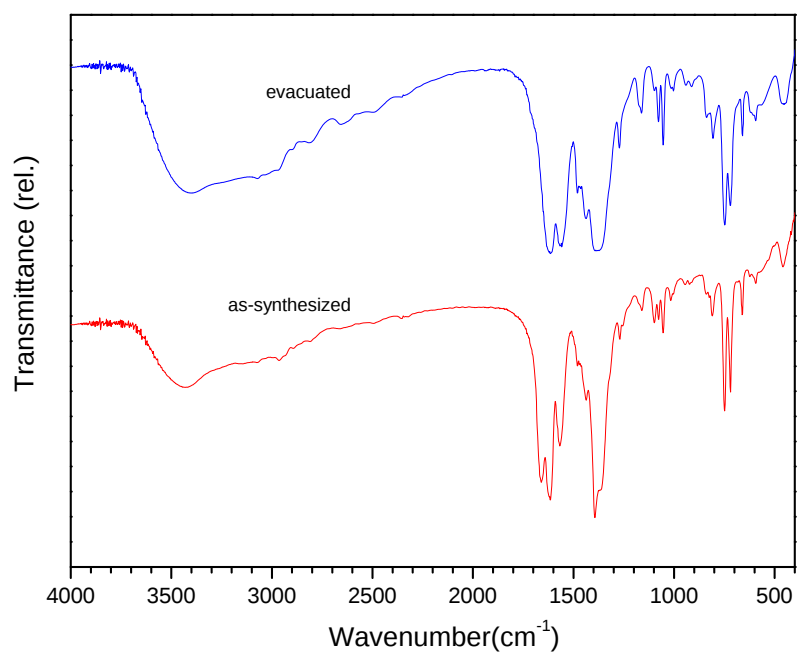


Figure S2. IR spectra of ZID measured as solid pellets in KBr.

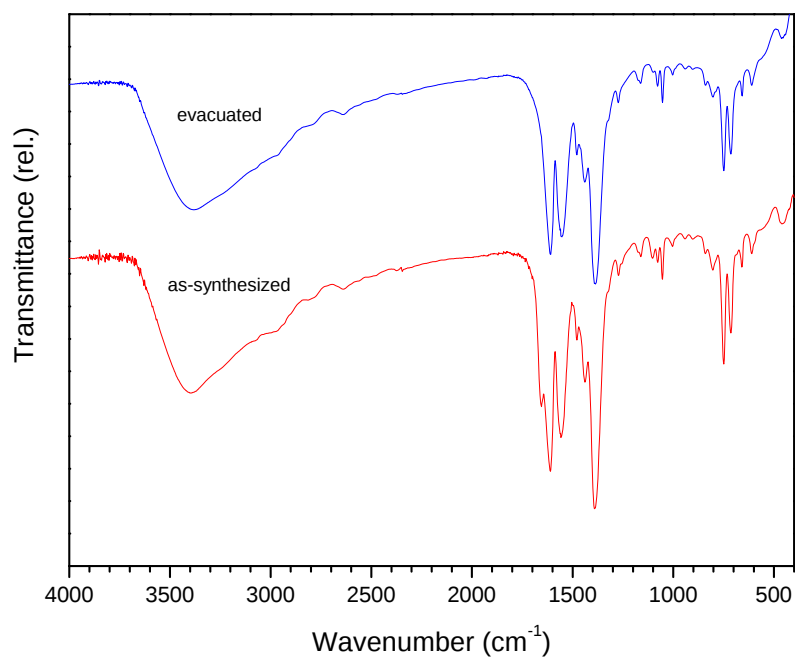


Figure S3. IR spectra of CID measured as solid pellets in KBr.

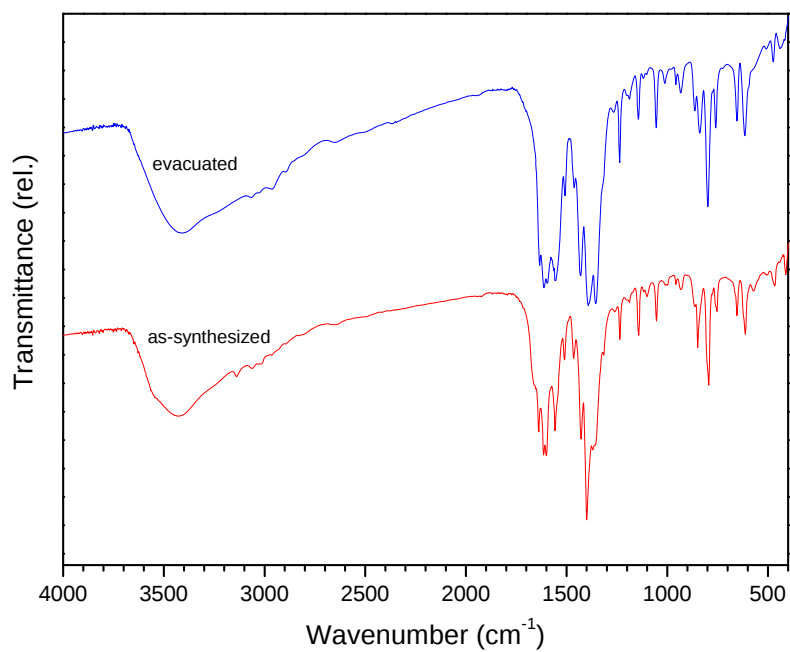


Figure S4. IR spectra of ZND measured as solid pellets in KBr.

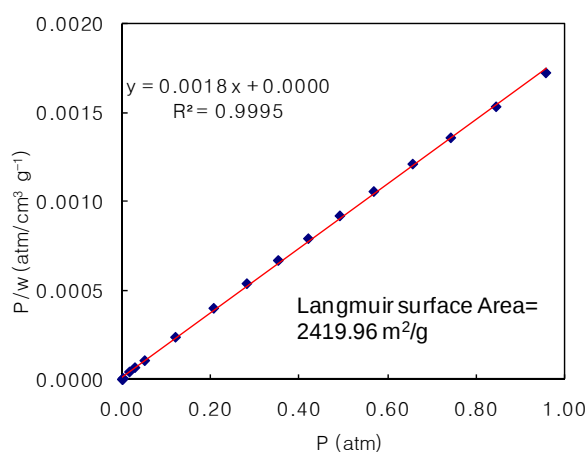
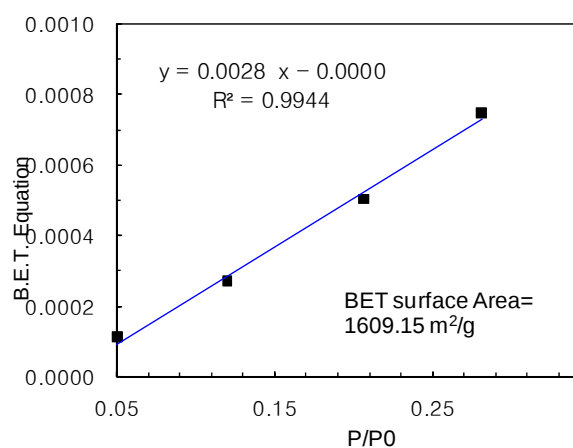


Figure S5. BET and Langmuir plots of N₂ sorption data for ZID.

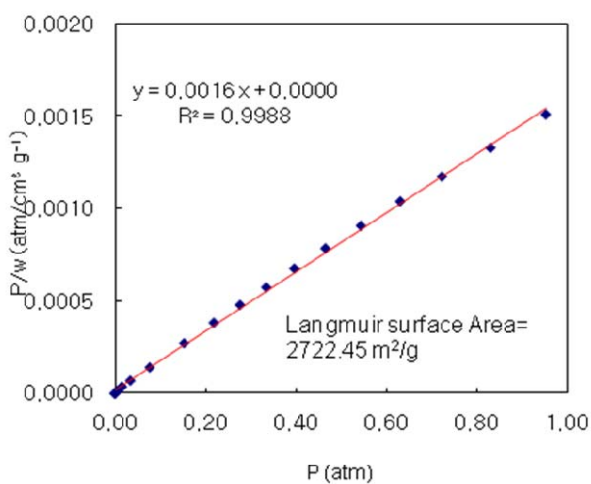
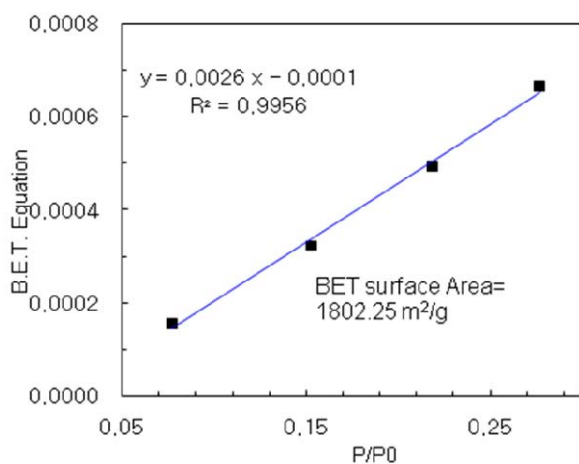


Figure S6. BET and Langmuir plots of N₂ sorption data for CID.

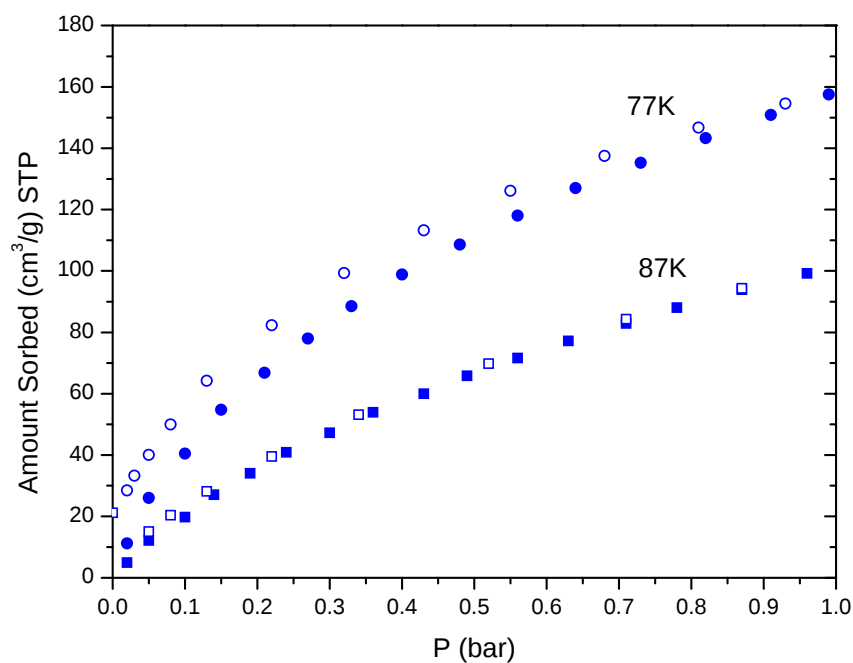


Figure S7. Complete H_2 sorption isotherms of ZmID at 77 and 87 K. Filled and open symbols denote sorption and desorption, respectively.

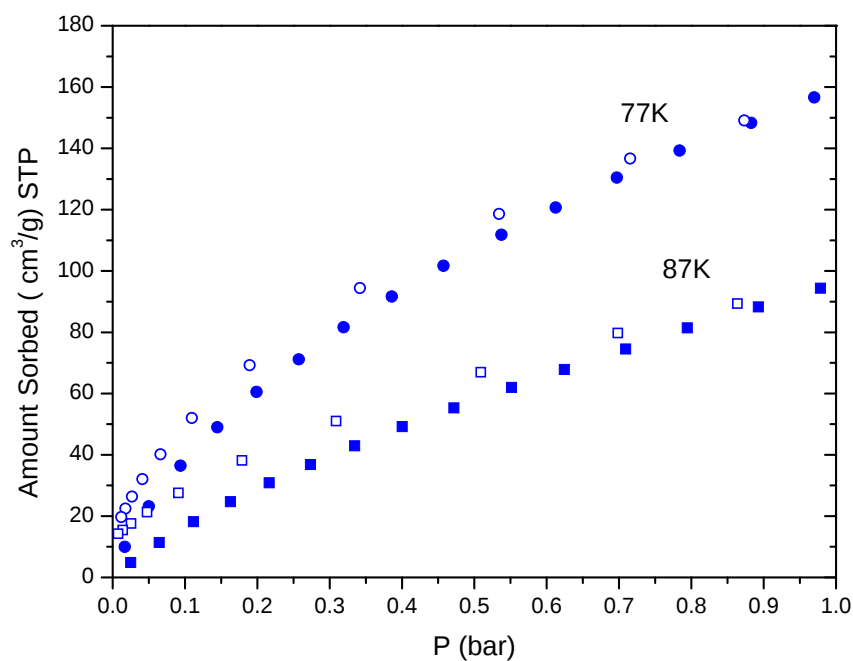


Figure S8. Complete H_2 sorption isotherms of ZID at 77 and 87 K. Filled and open symbols denote sorption and desorption, respectively.

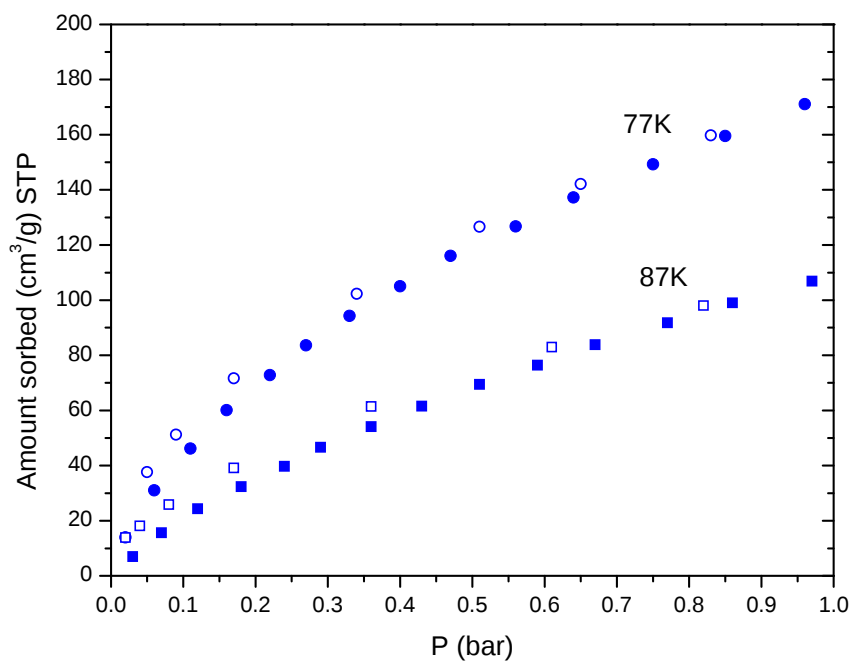


Figure S9. Complete H_2 sorption isotherms of CID at 77 and 87 K. Filled and open symbols denote sorption and desorption, respectively.

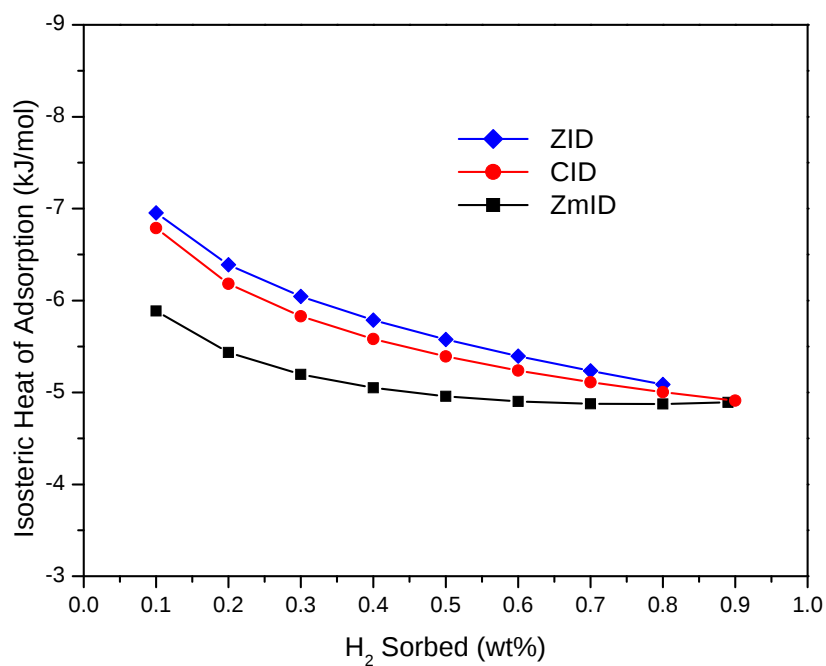


Figure S10. Isosteric heat of H_2 adsorption for ZmID, ZID and CID.