Supporting Information

Selective Guest Sorption in Interdigitated Porous Framework

with Hydrophobic Pore Surfaces

Satoshi Horike, Daisuke Tanaka, Keiji Nakagawa and Susumu Kitagawa

Experimental

 $\{[Zn_2(ip)_2(bpy)_2] \cdot DMF\}_n$ (CID-1 \supset DMF; ip = isophthalate, bpy = 4,4'-bipyridine). A DMF solution (10 cm³) of Zn(NO₃)₂ 4H₂O (2.97 g) was added to a DMF solution (100 cm³) of H₂ip (1.66 g) and bpy (1.56 g). After the mixture was allowed to stand for several days at 393 K, a white precipitate was collected, washed with DMF and ethanol, and dried at 403 K under a vacuum. Elemental analysis for CID-1: (calc) C, 56.05; H, 3.14; N, 7.26, (obs) C, 55.36; H, 3.05; N, 7.32.

Single Crystal X-ray Diffraction. The colorless single crystal of CID-1 \supset DMF was mounted on glass fibers with epoxy resin. X-ray data collection for the single crystal was carried out on a Rigaku Mercury diffractometer with graphite monochromated MoK α radiation ($\lambda = 0.71070$ Å) and a CCD two-dimensional detector at 173 K in a cold nitrogen stream. The condition of X-ray for CID-1 \supset DMF was 50 kV × 100 mA. The structure solution was solved by direct method (SIR-97) and refined (SHELXL-97) by full matrix least squares. All non-hydrogen atoms except for those of disordered atoms in pyridine rings were refined anisotropically. Hydrogen atoms were included in calculated positions and refined using a riding model.

NOTE: Several compounds that have similar crystal structure have been reported. Zhu *et al.* reported Zn and Cd compounds with ethanol guests (*J. Mol. Struct.*, 2006, 787, 45) and Chen *et al.* reported Ni and Fe compounds (*J. Solid State Chem.*, 2003, 170, 130; *Dalton Trans.*, 2004, 2217) and Liu *et al.* reported Mn compound (*New J. Chem.*, 2003, 27, 890) and Yao *et al.* reported Cu compound (*Inorg. Chem. Acta*, 2005, 358, 3347), respectively. In this report, Zn compound with DMF guests is firstly reported.

Physical Measurements. All chemicals and solvents used in the syntheses were of reagent grade

and used without further purification. Thermogravimetric analysis (TGA) were performed using a Rigaku Thermo plus TG 8120 apparatus in the temperature range between 298 and 723 K in a N₂ atmosphere and at a heating rate of 5 Kmin⁻¹. Solid-state ¹³C NMR was measured by JEOL JNM-LA300 spectrometer and standard CPMAS probe at 75.577 MHz. X-ray powder diffraction (XRPD) data were collected on a Rigaku RINT-2200HF (Ultima) diffractometer with CuK α radiation. The adsorption isotherm for CO₂ at 195 K was measured with Quantachrome AUTOSORB-1 and adsorption/desorption isotherms for other solvents at 298 K were measured with BELSORP-18 volumetric adsorption equipment from BEL Japan, Inc.



Fig. S1 TGA curve of CID-1 \supset DMF over the temperature range from 25-450 °C at a heating rate of $\beta = 5$ °C min⁻¹ under the N₂ atmosphere.



Fig. S2 Solid-state ¹³C CPMAS NMR spectrum of CID-1⊃DMF (as synthesized) at 298 K. For assignment the chemical shifts of DMF are shown in the figure and the other peaks can be assigned to the framework of CID-1. Spinning side bands are indicated by asterisks (*).



Fig. S3 Adsorption isotherm of CO₂ for CID-1 at 195 K.



Fig. S4 Adsorption and desorption isotherms for MeOH (298 K, open circle) and H_2O (298 K, closed circle) of CID-1.



Fig. S5 The variation of double exponential kinetic parameters k_1 (closed circle) and k_2 (open circle) with pressure for adsorption of (a) MeOH and (b) H₂O on CID-1 at 298 K.

CIF report on CID-1⊃DMF

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Refinement of F^2^ against ALL reflections. The weighted R-factor wR and goodness of fit S are based on F^2^, conventional R-factors R are based on F, with F set to zero for negative F^2^. The threshold expression of $F^2^> 2 \operatorname{sigma}(F^2^>)$ is used only for calculating R-factors(gt) etc. and is not relevant to the choice of reflections for refinement. R-factors based on F^2^ are statistically about twice as large as those based on F, and R-factors based on ALL data will be even larger.

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O2 C8 C6 119.3(5) . . ? O1 C8 Zn1 57.5(3) . 1 455 ? O2 C8 Zn1 63.7(3) . 1_455 ? C6 C8 Zn1 175.7(4) . 1_455 ? C15 N1 C21 27.9(6) . . ? C15 N1 C22 106.7(8) . . ? C21 N1 C22 116.9(7) ...? C15 N1 C16 115.9(9) . . ? C21 N1 C16 109.4(8) . . ? C22 N1 C16 32.6(6) . . ? C15 N1 Zn1 123.1(6) . . ? C21 N1 Zn1 119.7(5) . . ? C22 N1 Zn1 123.4(5) . . ? C16 N1 Zn1 120.8(6) . . ? C7 C6 C3 118.9(5) . . ? C7 C6 C8 121.1(5) . . ? C3 C6 C8 120.1(4) . . ? C10 C12 C13 120.2(5) . . ? C10 C12 H18 119.9 . . ? C13 C12 H18 119.9 . . ? C18 C14 C20 26.6(6) . . ? C18 C14 C17 116.5(8) . . ? C20 C14 C17 110.2(8) . . ? C18 C14 C19 105.8(8) . . ? C20 C14 C19 115.5(7) . . ? C17 C14 C19 32.9(6) . . ? C18 C14 C13 124.0(7) . . ? C20 C14 C13 123.6(6) . . ? C17 C14 C13 119.6(7) . . ? C19 C14 C13 120.5(6) . . ? C5 C4 C2 119.7(5) . . ? C5 C4 H4 120.2 . . ? C2 C4 H4 120.2 . . ? N2 C10 C12 123.8(5) . . ? N2 C10 H19 118.1 . . ? C12 C10 H19 118.1 . . ?

C10 N2 C9 116.6(4) . . ? C10 N2 Zn1 120.7(3) . 1 565 ? C9 N2 Zn1 122.4(3) . 1_565 ? C12 C13 C11 116.3(5) . . ? C12 C13 C14 121.2(4) . . ? C11 C13 C14 122.5(5) . . ? N2 C9 C11 122.8(5) ...? N2 C9 H20 118.6 . . ? C11 C9 H20 118.6 . . ? C5 C7 C6 119.9(5) . . ? C5 C7 H7 120.0 . . ? C6 C7 H7 120.0 . . ? C7 C5 C4 121.5(5) . . ? C7 C5 H8 119.3 . . ? C4 C5 H8 119.3 . . ? C14 C20 C21 120.6(9) . . ? C14 C20 H9 119.7 . . ? C21 C20 H9 119.7 . . ? N1 C21 C20 123.0(9) . . ? N1 C21 H10 118.5 . . ? C20 C21 H10 118.5 . . ? N1 C22 C19 124.2(9) . . ? N1 C22 H11 117.9 . . ? C19 C22 H11 117.9 . . ? N1 C15 C18 125.4(11) . . ? N1 C15 H12 117.3 . . ? C18 C15 H12 117.3 . . ? C22 C19 C14 119.3(9) . . ? C22 C19 H13 120.4 . . ? C14 C19 H13 120.4 . . ? N1 C16 C17 122.4(12) . . ? N1 C16 H14 118.8 . . ? C17 C16 H14 118.8 . . ? C14 C17 C16 120.1(11) . . ? C14 C17 H15 119.9 . . ? C16 C17 H15 119.9 . . ?

C14 C18 C15 119.7(11) . . ? C14 C18 H16 120.2 . . ? C15 C18 H16 120.2 . . ?

_diffrn_measured_fraction_theta_max	0.989
_diffrn_reflns_theta_full	25.01
_diffrn_measured_fraction_theta_full	0.989
_refine_diff_density_max 0.441	
_refine_diff_density_min -0.546	
_refine_diff_density_rms 0.103	

SQUEEZE RESULTS

loop_

_platon_squeeze_void_nr

_platon_squeeze_void_average_x

_platon_squeeze_void_average_y

_platon_squeeze_void_average_z

_platon_squeeze_void_volume

_platon_squeeze_void_count_electrons

1	0.000	0.500	0.000	106.7	24.2
2	0.000	0.500	0.500	106.7	24.3

_platon_squeeze_details

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