Supplementary Material (ESI) for Chemical Communications

Molecular encapsulation of a discrete water of $(H_2O)_{32}$ cluster with S_6 symmetry in an organic crystalline supermolecule

Wen-Zhi Xu,^a Junliang Sun,^b Zhi-Tang Huang^a and Qi-Yu Zheng^{*a}

^a Beijing National Laboratory for Molecular Sciences, Research Center for Chemical Biology, Institute of Chemistry, Chinese Academy of Sciences, Beijing 100190, China.
^b Department of Physical, Inorganic and Structural Chemistry, Stockholm University, S-106 91 Stockholm, Sweden.

Electronic Supplementary Information

Figure S1-S3



Fig. S1 Side view of the stacking of adjacent three BTBs shown in Fig. 2b with two guanidiniums above and below. All molecules are shown in a stick model and the hydrogen atoms are omitted for the clarity. Red: O; blue: N; gray: C.



Fig. S2 3D structure of 1 a) along the *c*-axis; b) along the *a*-axis. Red: O; blue: N; gray: C; White H.



Fig. S3 Two 3D structures of (H₂O)₃₂ clusters due to the disorder of OW8. a) OW8; b) OW8b. The Ow6-Ow8-Ow7 angel and OW6-Ow8b-Ow7 angel were shown in blue. The black dash lines indicate the hydrogen between two oxygen atoms. Left: top view; right: side view.