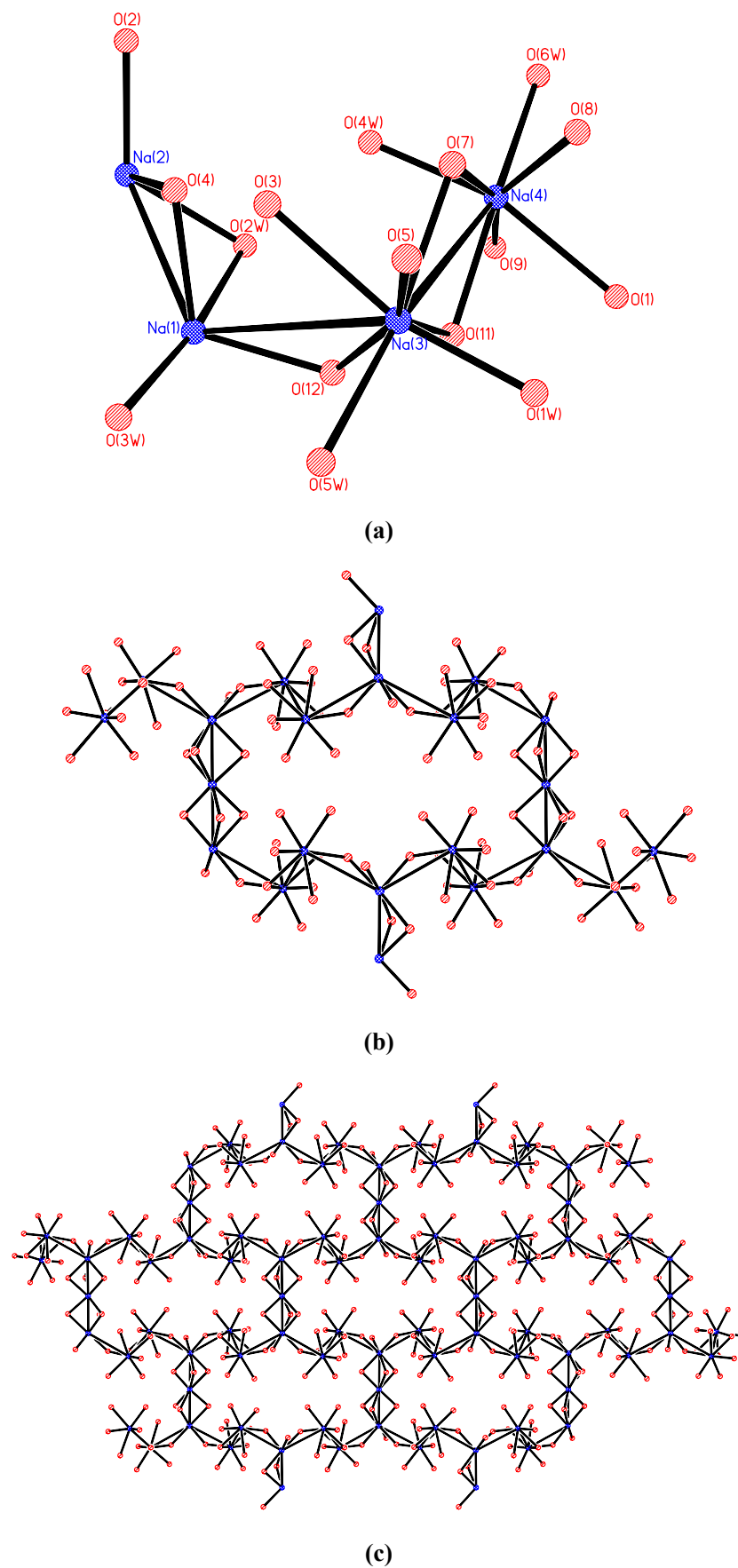


Supporting Information

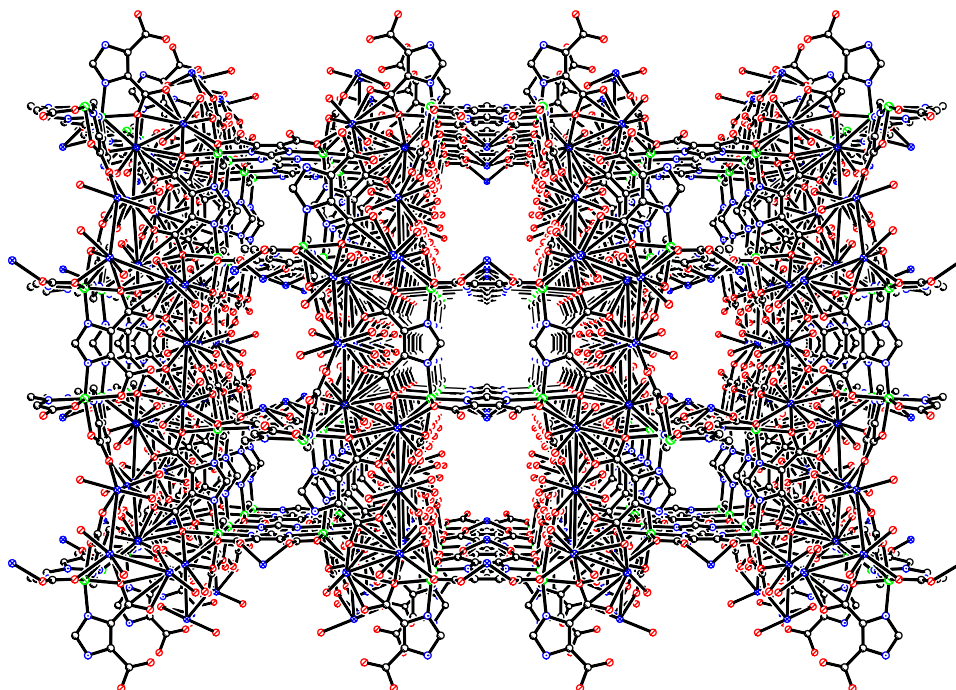
Rational assembly of 3D metal-organic framework for gas adsorption with predesigned cubic building blocks and 1D open channels

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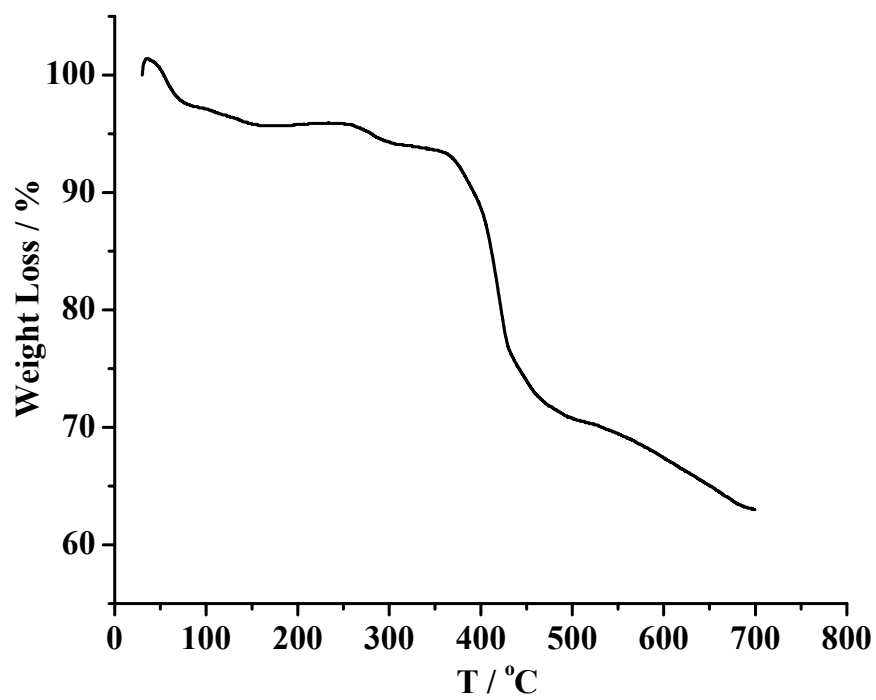
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SI-1 Views of **(a)** the coordination environment of Na(1)-Na(4) atoms, **(b)** the 16-membered macrometalloacyclic unit of **1** formed by Na(1)-Na(4) atoms and **(c)** the 2D layer formed through Na-Na and Na-O bonds in **1** along *c* axis.



SI-2 View of the 3D metal-organic framework of **1** with open channels (water and acetonitrile molecules were omitted for clarity).



SI-3 TG pattern for 1.