

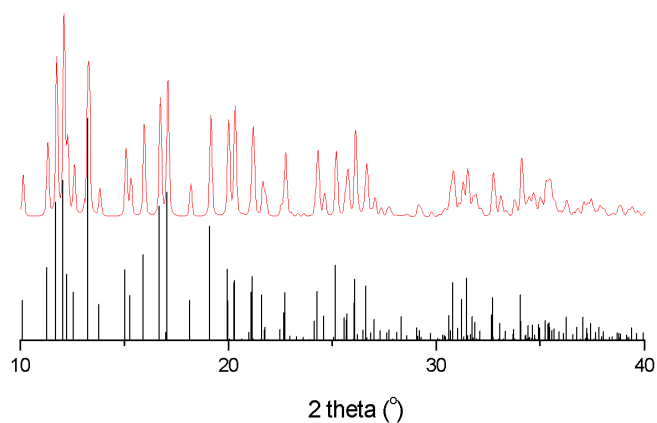
## Supporting Information

### The First Anionic Four-Connected Boron Imidazolate Framework

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**X-ray powder diffraction:** X-ray powder diffraction experiments were performed on a Bruker D8 Advance X-ray powder diffractometer operating at 40kV and 40mA (CuK radiation,  $\lambda = 1.5418\text{\AA}$ ). The data collection was carried out with a step size of 0.03 degree and counting time of 1s per step.



**Figure S1.** PXRD patterns for **1**: (bottom) simulated on the basis of the structure determined by single-crystal X-ray diffraction; (top) experimental pattern recorded at room temperature.