

# Syntheses and structures of two new aluminoborates with 3D porous-layered frameworks

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Figure S1. Composition of 13-MR (a) and 8-MR (b) windows in **1**.

Figure S2. The coordination of metal cations in **1**.

Figure S3. The coordination of metal cations in **2**.

Figure S4. Metal-oxygen chain in **2**.

Figure S5. The 2D monolayers in **1** (a), **3** (b), **4** (c) and **5** (d), respectively.

Figure S6. The porous-layered structures in **3** (a), **4** (b) and **5** (c), respectively.

Figure S7. PXRD of **1** (a) and **2** (b).

Figure S8. IR spectra of **1** (a) and **2** (b).

Figure S9. TG-DSC curves of **1** (a) and **2** (b).

Figure S10. The morphology of compounds **1** and **2**, respectively.

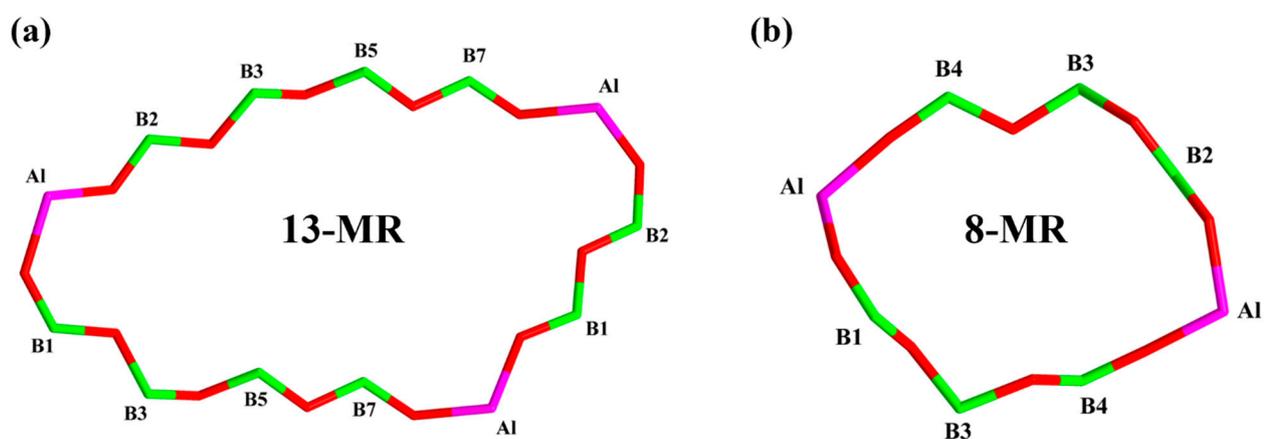


Figure S1. Composition of 13-MR (a) and 8-MR (b) windows in 1.

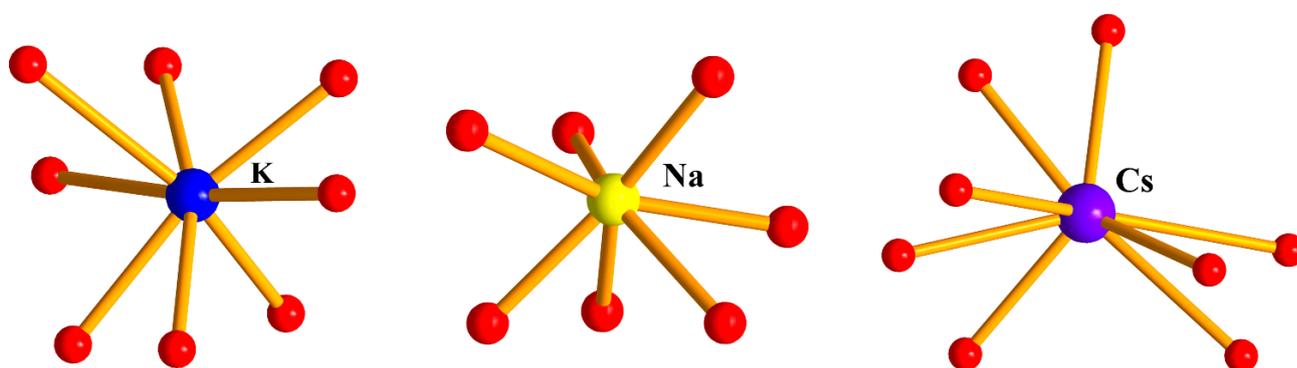


Figure S2. The coordination of metal cations in 1.

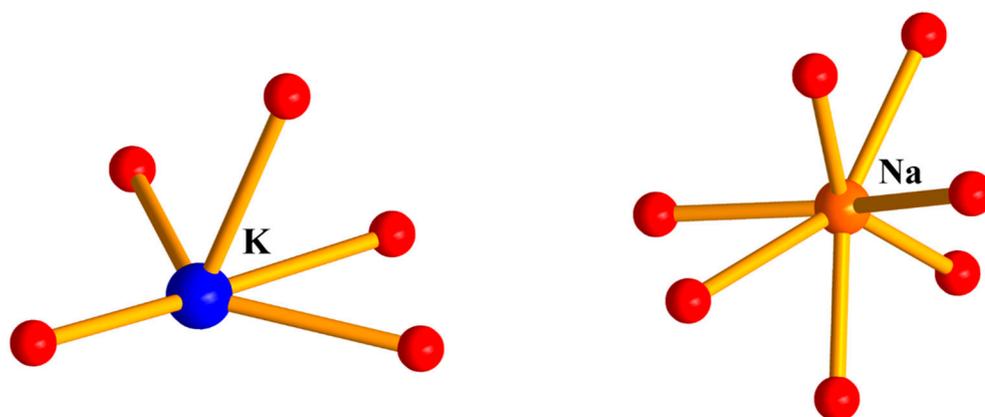


Figure S3. The coordination of metal cations in 2.

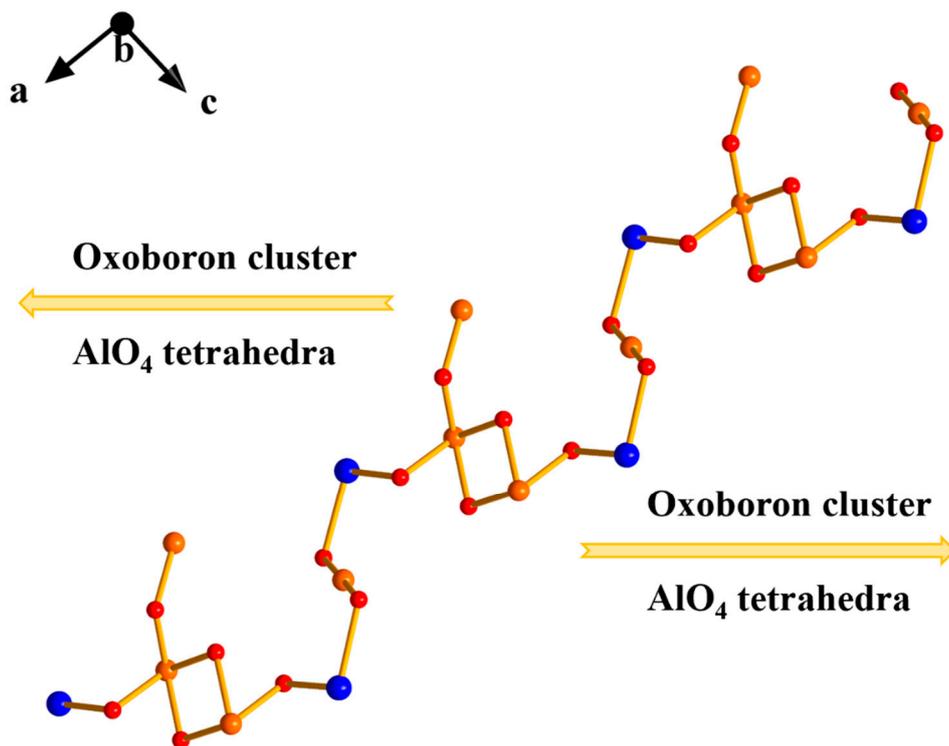


Figure S4. Metal-oxygen chain in 2.

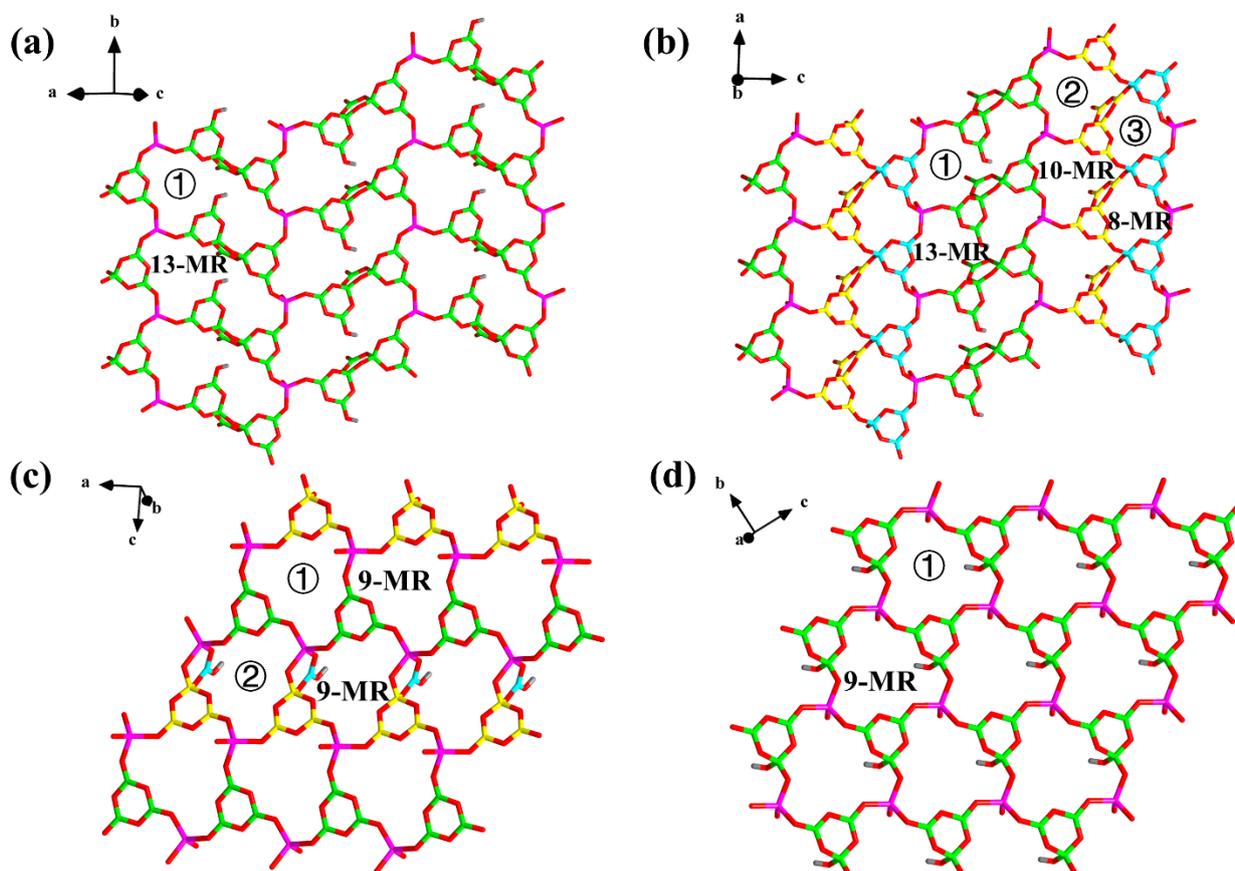


Figure S5. The 2D monolayers in 1 (a), 3 (b), 4 (c) and 5 (d), respectively.

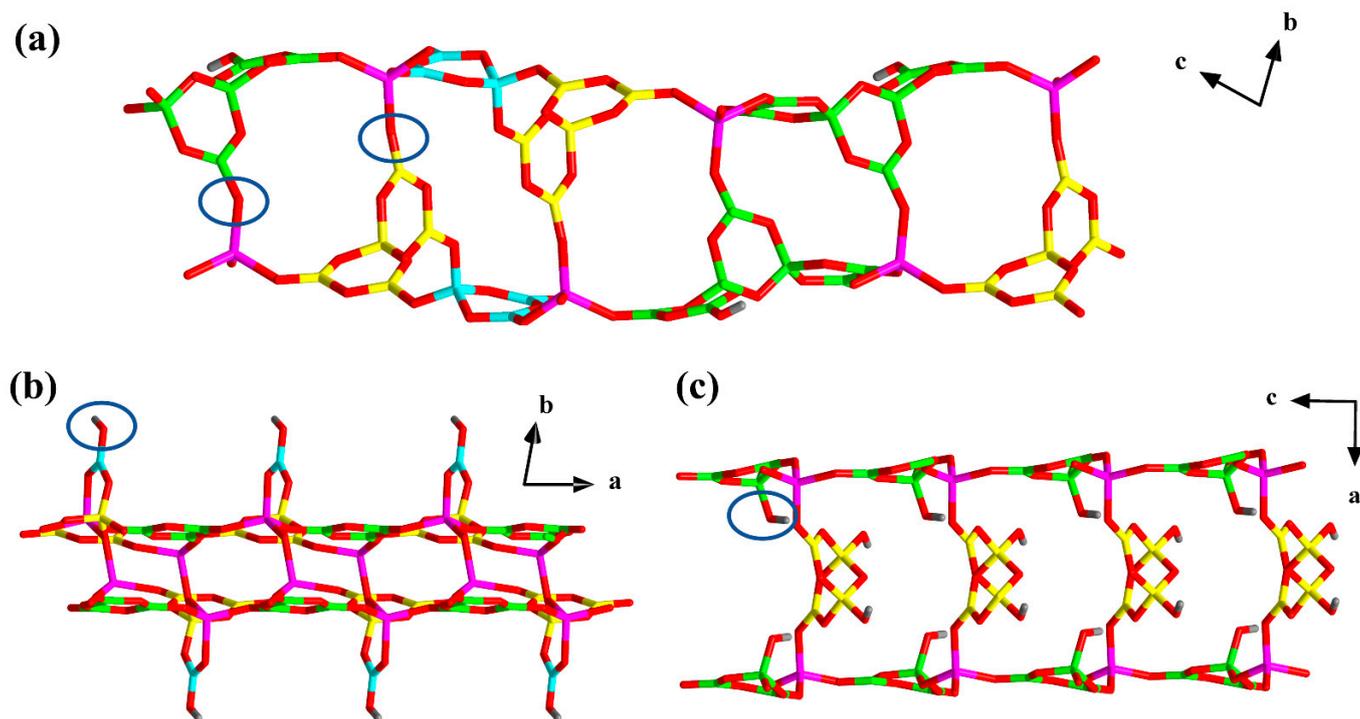


Figure S6. The porous-layered structures in 3 (a), 4 (b) and 5 (c), respectively.

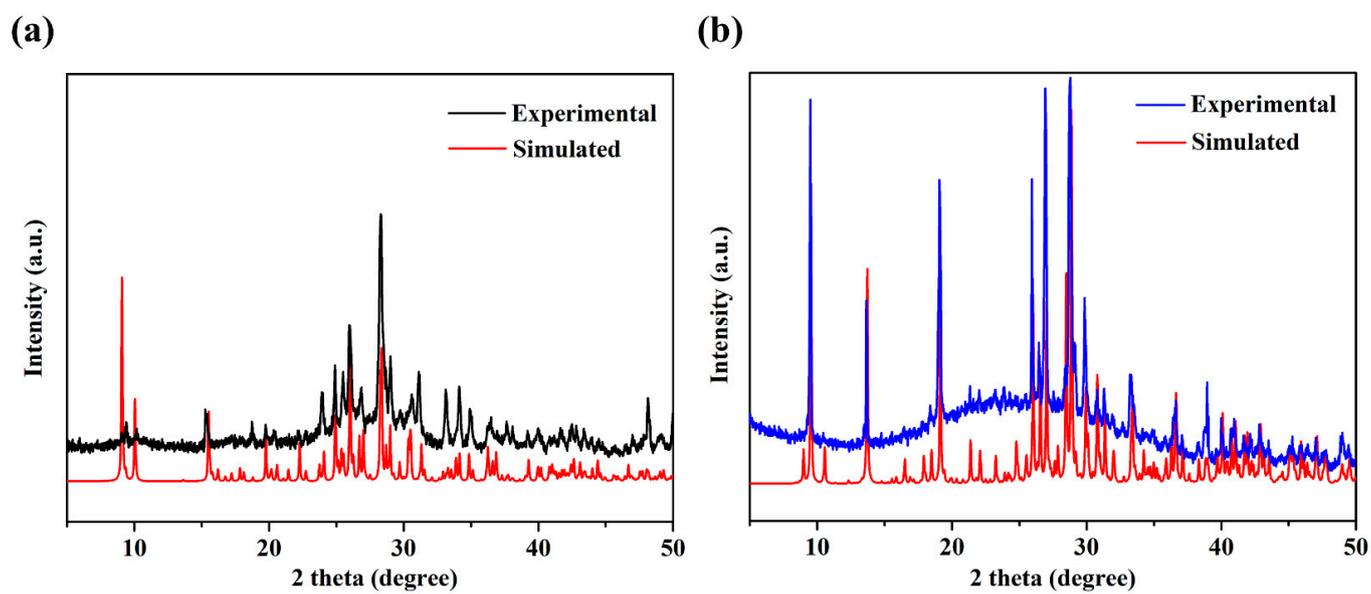


Figure S7. PXRD of 1 (a) and 2 (b).

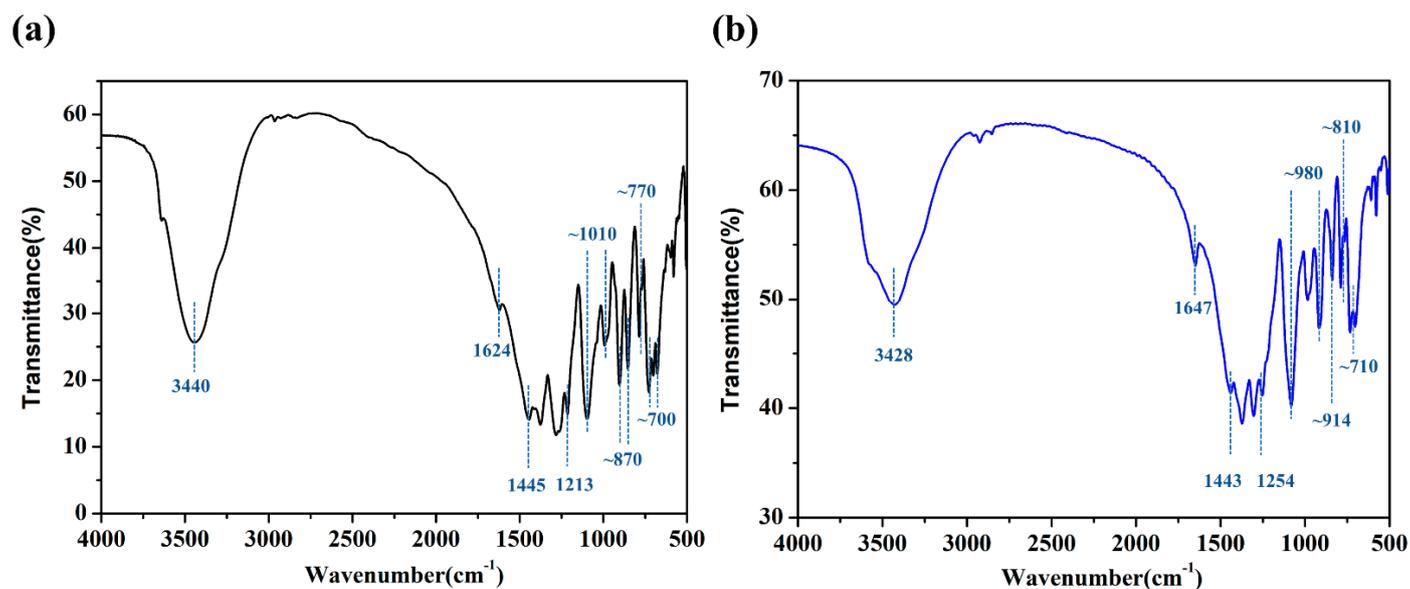


Figure S8. IR spectra of 1 (a) and 2 (b).

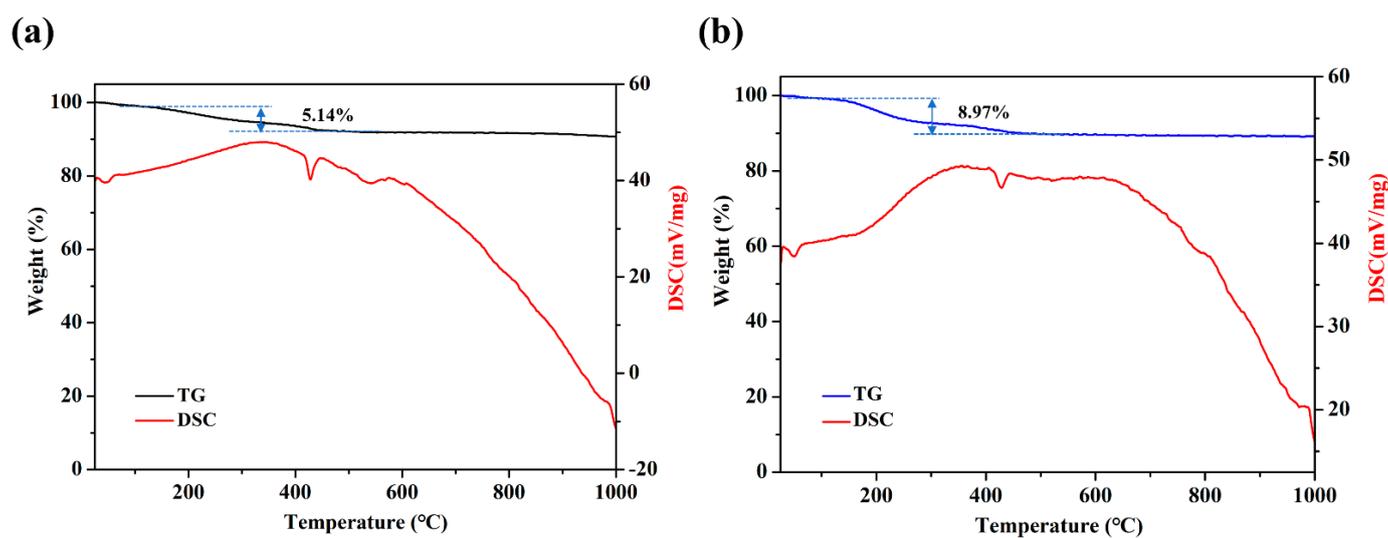


Figure S9. TG-DSC curves of 1 (a) and 2 (b).

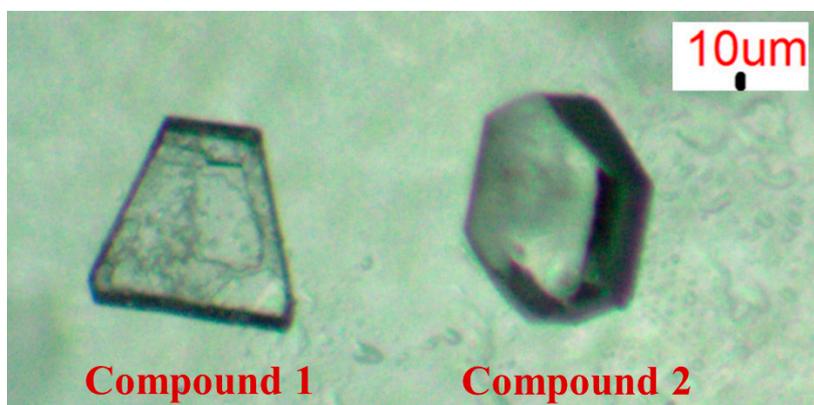


Figure S10. The morphology of compounds 1 and 2, respectively.