

Supporting Information:

**Bulk crystal growth and characterization of a new polar
polymorph of BaTeMo₂O₉: α -BaTeMo₂O₉**

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Fig. S1. Experimental and calculated powder X-ray diffraction patterns for polycrystalline

α -BaTeMo₂O₉.

Fig. S2. Rocking curve of the α -BaTeMo₂O₉ crystal.

Fig. S3. Transmission spectra of the α -BaTeMo₂O₉ crystal.

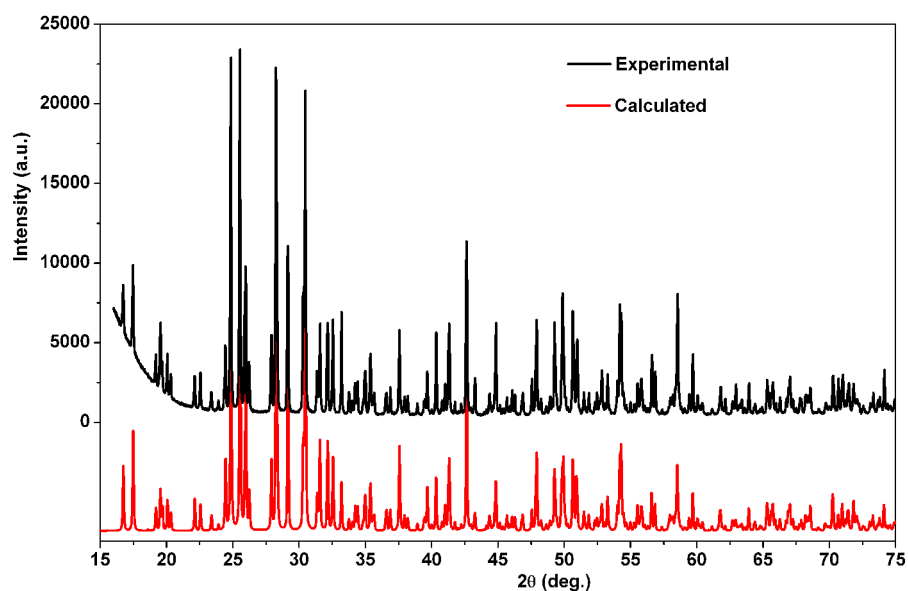


Fig. S1. Experimental and calculated powder X-ray diffraction patterns for polycrystalline α -BaTeMo₂O₉.

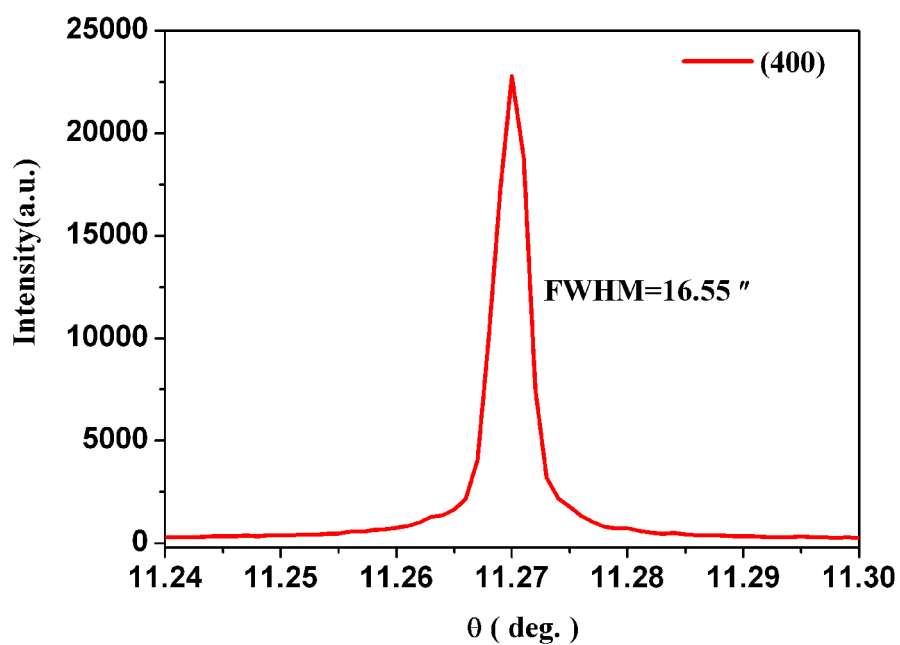


Fig. S2. Rocking curve of the α -BaTeMo₂O₉ crystal.

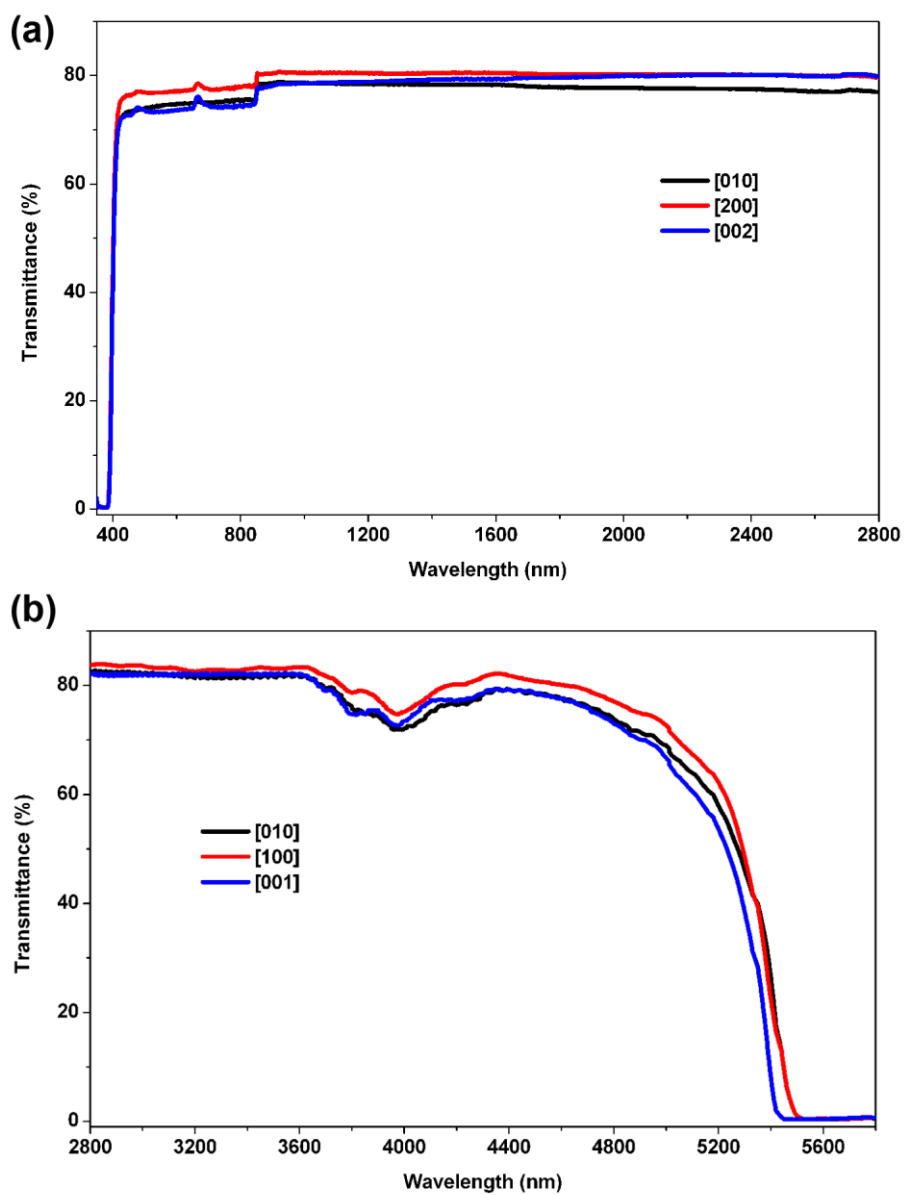


Fig. S3. UV-Vis-NIR spectra (a) and mid-IR spectra (b) of the α -BaTeMo₂O₉ crystal with the light parallel to the [010]-, [100]- and [001]-direction, respectively.