

Supporting Information:

Novel BaTeMo₂O₉ fine particles synthesized via a supercritical water route

Qingxin Zheng, Bo Li* and Xutang Tao*

State Key Laboratory of Crystal materials, Shandong University, 27 Shanda Nanlu, Jinan, 250100 (P. R. China)

1. Experimental section

The apparatus used in this communication was a cylinder-shaped autoclave made of alloy (00Cr17Ni14MoIV). The safety valve, pressure transducer and indicator were connected on the top of the autoclave. The outer diameter of the autoclave body was 72mm, and inner diameter was 42mm. The whole capacity of the autoclave was 100ml. One thermocouple (WRN-010) was used to control temperature of the heating oven. Another resistance thermocouple (WZPK-163) was inserted vertically from the top into the autoclave and used for measuring temperature of inner system, which should be more close to the real reaction temperature than the temperature of heating oven.

2. XRD pattern of BTM particles synthesized by solid-state reaction

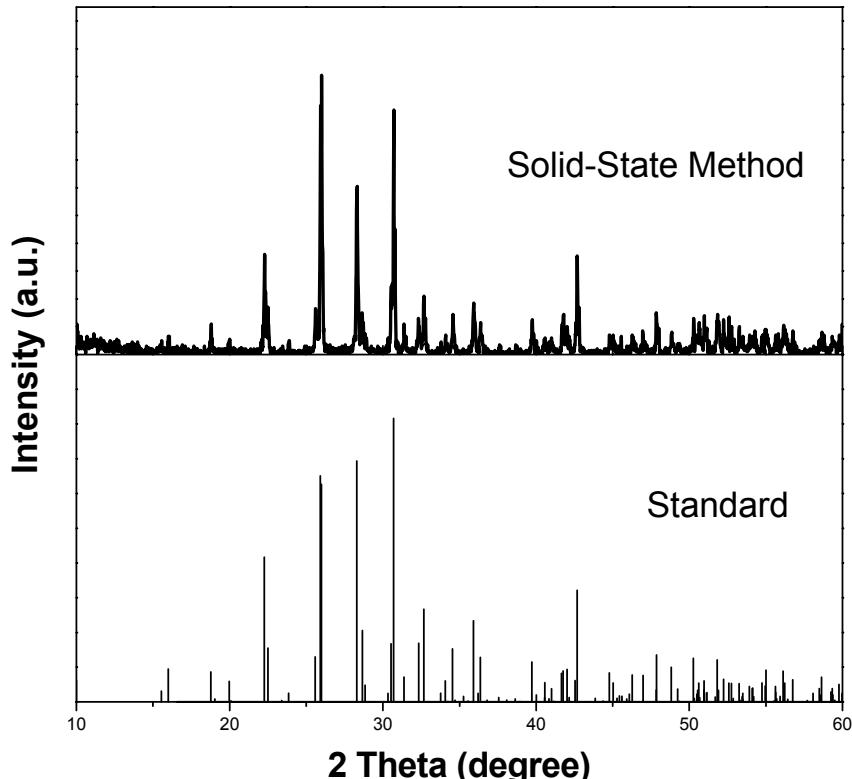


Fig. S1 XRD pattern of BTM particles synthesized by solid-state reaction compared with standard diffraction data

3. XPS analysis patterns of BTM particles prepared in supercritical water system

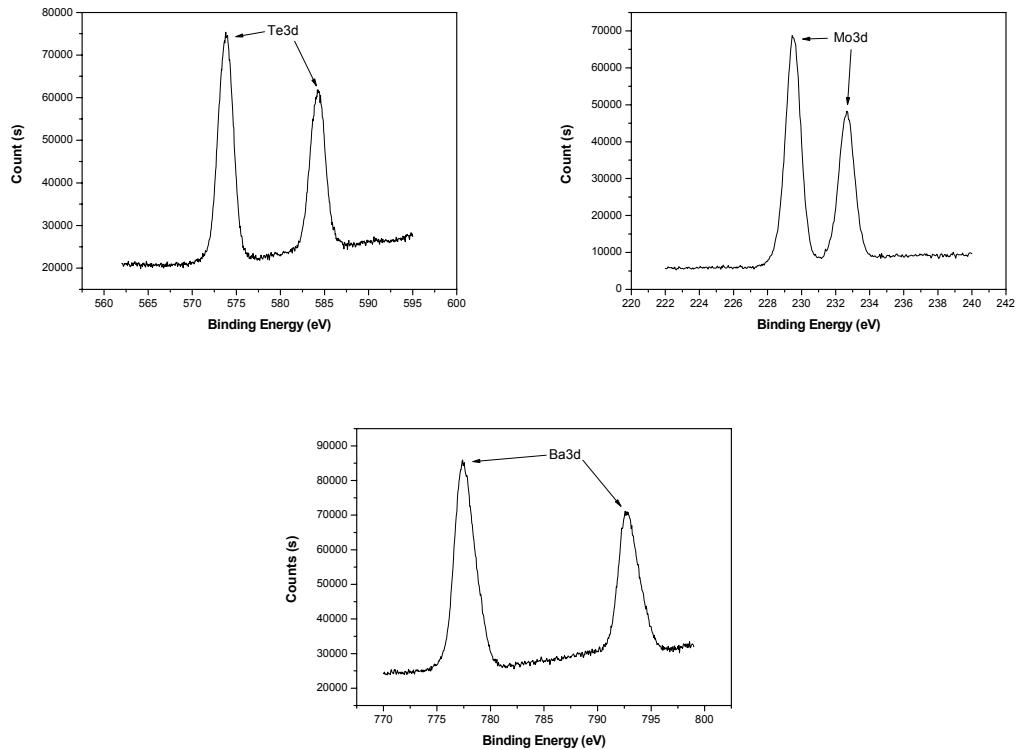


Fig. S2 XPS patterns of BTM particles prepared in supercritical water system