Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Information

Microwave Assisted Synthesis of High-surface Area WO_3 Particles Decorated with Mosaic Patterns via Hydrochloric Acid Treatment of $Bi_2W_2O_9$

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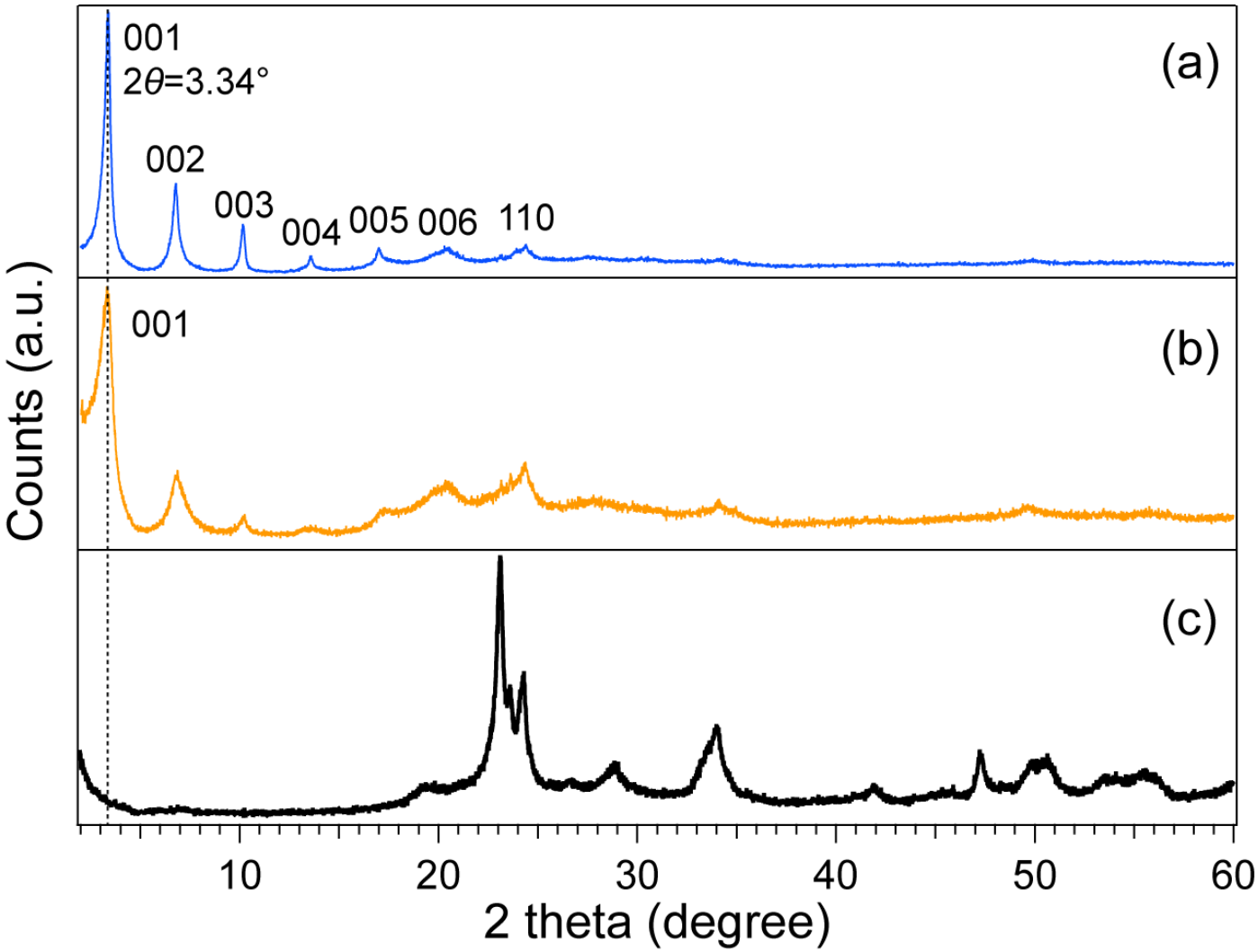

Figure S1. Powder XRD patterns of (a) $Bi_2W_2O_9$ treated with HCl under conventional heating at 80 °C for 1 h, subsequently treated with *n*-octylamine, (b) $Bi_2W_2O_9$ treated with HCl under microwave heating at 80 °C for 1 h, subsequently treated with *n*-octylamine, (c) $Bi_2W_2O_9$ treated with HCl under conventional heating at 200 °C for 1 h, subsequently treated with *n*-octylamine,

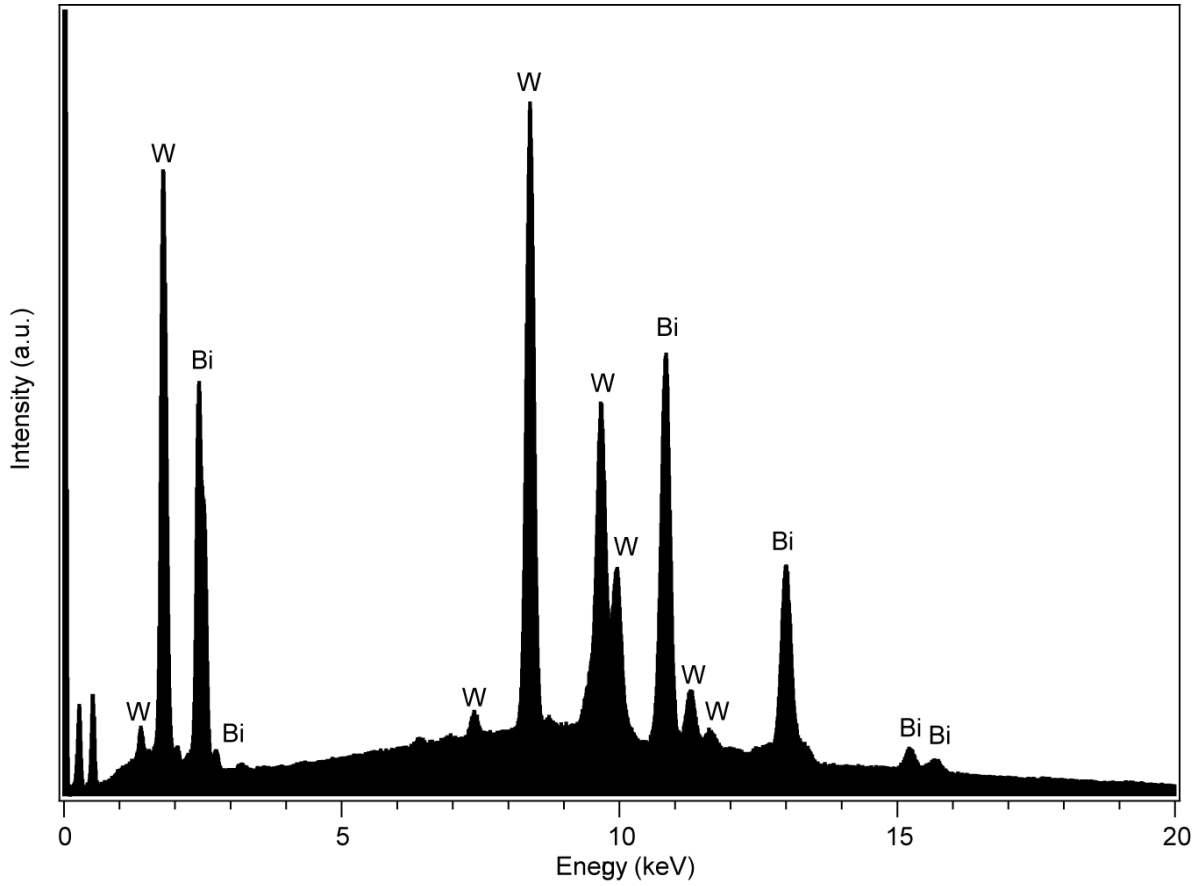

Figure S2. Energy dispersive X-ray spectrum of $Bi_2W_2O_9$.

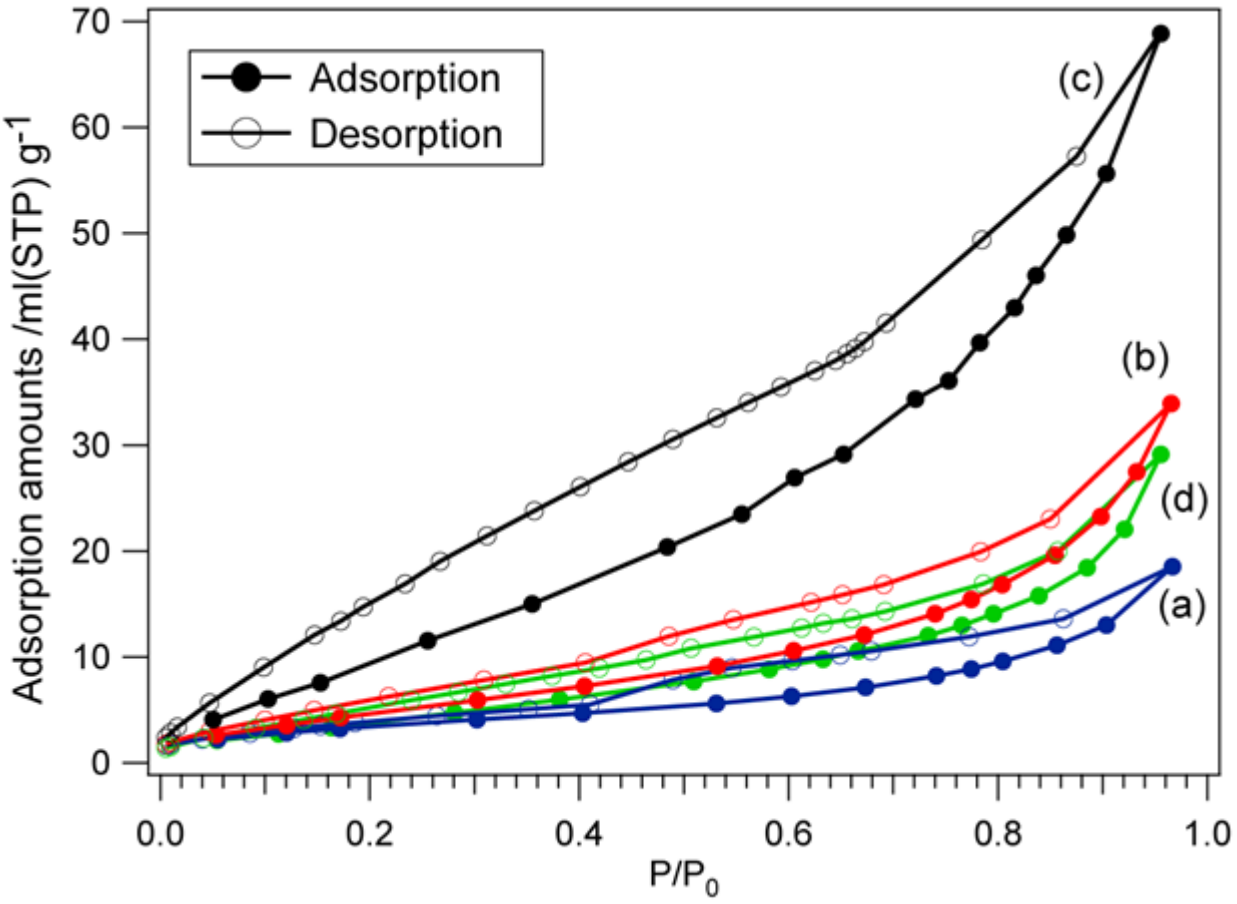

Figure S3. N_2 adsorption isotherm of WO_3 particles obtained by the hydrochloric acid treatment at 200 °C for (a) 5 min, (b) 30 min, (c) 60 min, (d) 120 min microwave heating.

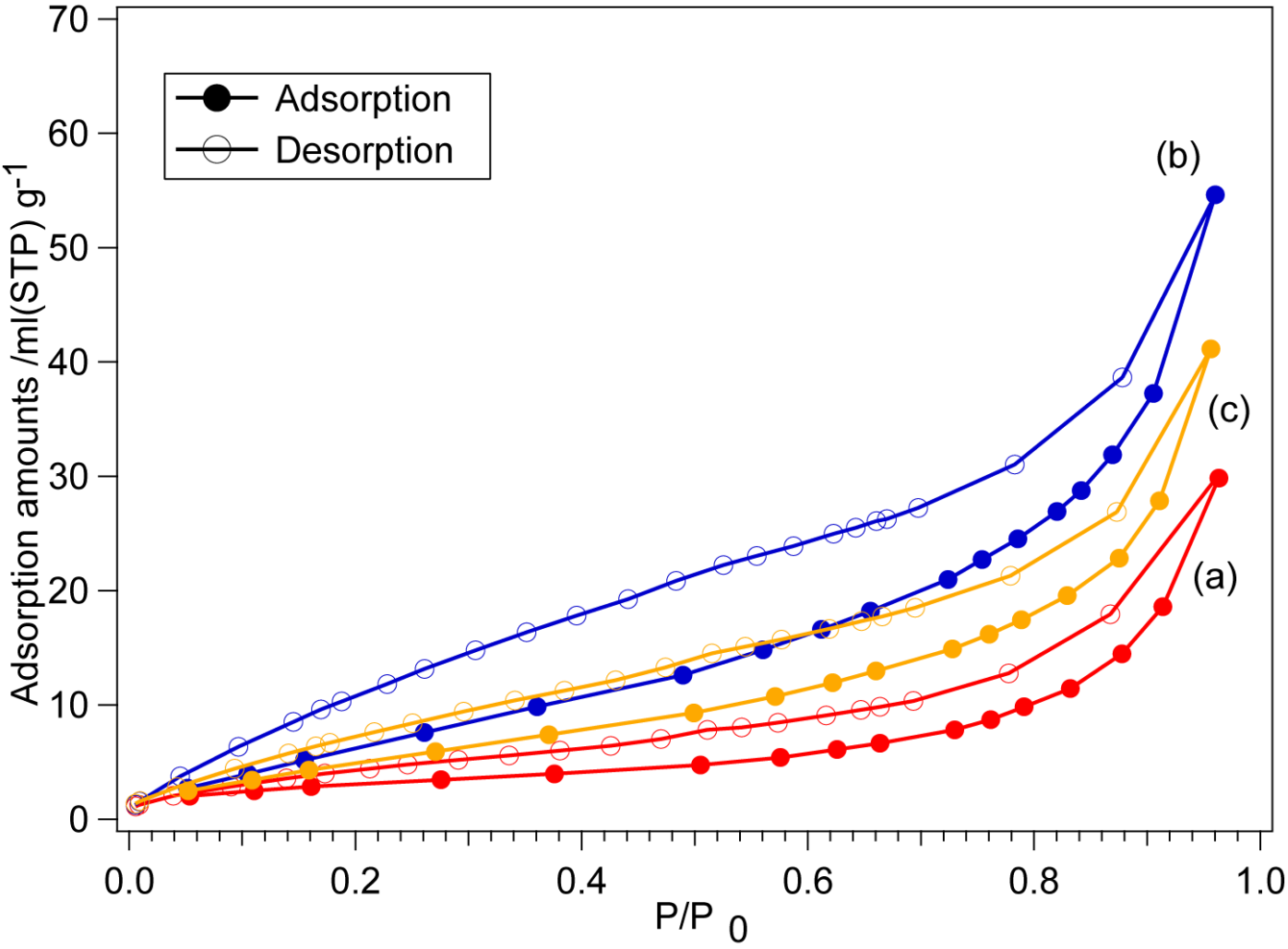

Figure S4. N_2 adsorption isotherm of WO_3 particles obtained by the hydrochloric acid treatment at 200 °C for (a) 2 h, (b) 4 h, (c) 6 h, (d) 12 h conventional heating.