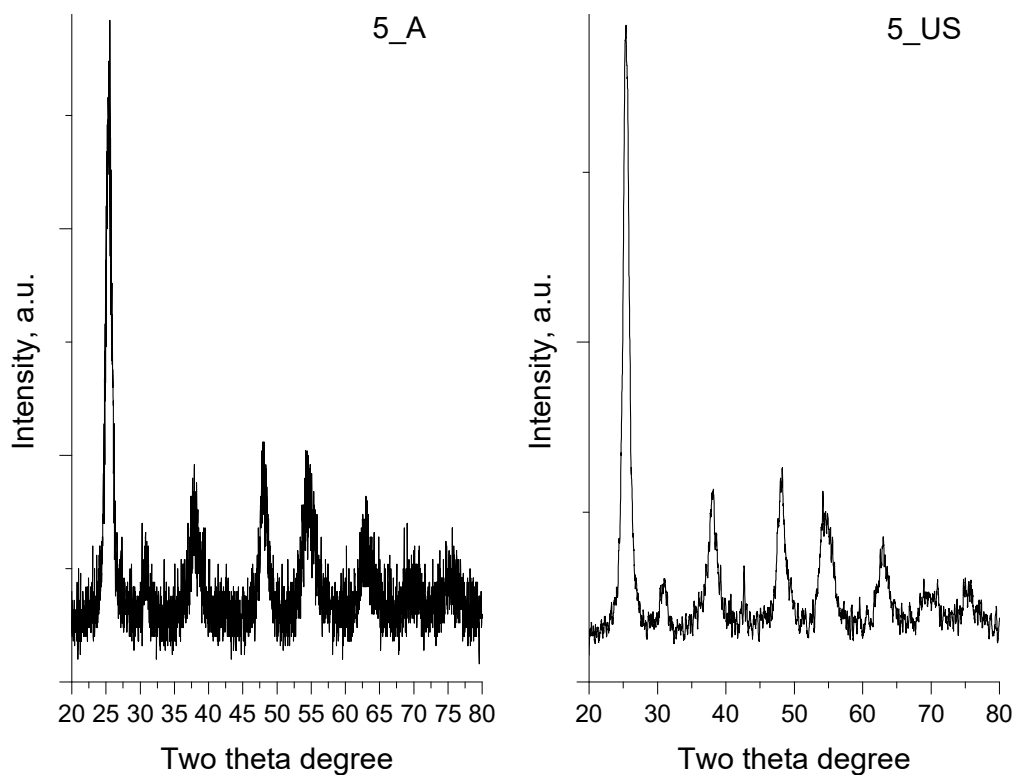


## Supplementary Materials

### Tailoring Mesoporous Titania Features by Ultrasound-Assisted Sol-Gel Technique: Effect of Surfactant/Titania Precursor Weight Ratio

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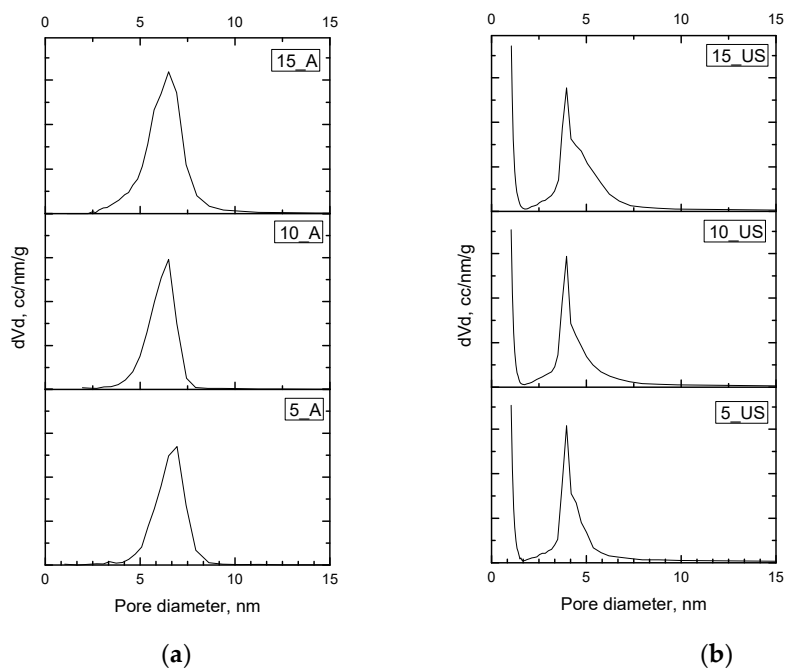


**Figure S1.** XRD patterns of titania samples prepared using the molar ratio of reactants TTIP:F-127:H<sub>2</sub>O:Iso-C<sub>3</sub>H<sub>7</sub>OH =  $4.9 \times 10^{-2}$ : $3.3 \times 10^{-4}$ :2.3:1 (5) by stirring procedure (A) and ultrasound-assisted synthesis (US).

**Table S1.** Structural features of the synthesized porous titania samples derived from XRD patterns.

Sample	$2\theta_{[101]}$ , °	$d_{[101]}$ , nm	$a_0$ , nm
5_A	25.48	5.589	6.454
10_A	25.26	5.863	6.770
15_A	25.48	5.499	6.350
5_US	25.38	5.376	6.208
10_US	25.52	5.135	5.929
15_US	25.46	4.252	4.910

$2\theta_{[101]}$ —diffraction angle of [101] crystallographic plane;  $2\theta_{[004]}$ —diffraction angle of [004] crystallographic plane;  $d_{[101]}$ —interplanar distance calculated from [101] peak;  $a_0$ —unit cell parameter;  $D_{\text{pore(BJH des)}}$ —pore diameter estimated from desorption branch of isotherm.



**Figure S2.** Corresponding BJH pore size distributions isotherms for titania samples: (a) A-series; (b) US-series, calculated using desorption branch of isotherm.