Supporting Information

Microwave-assisted seeds preparation for producing easily phase-transformed anatase to rutile

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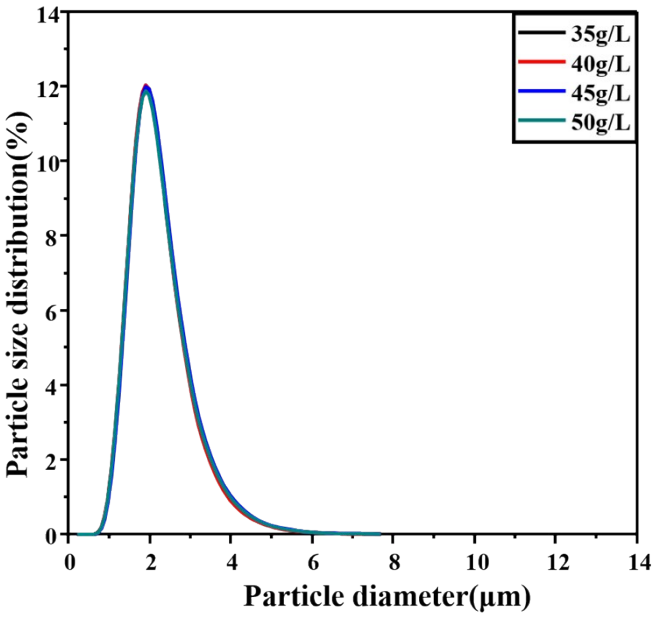
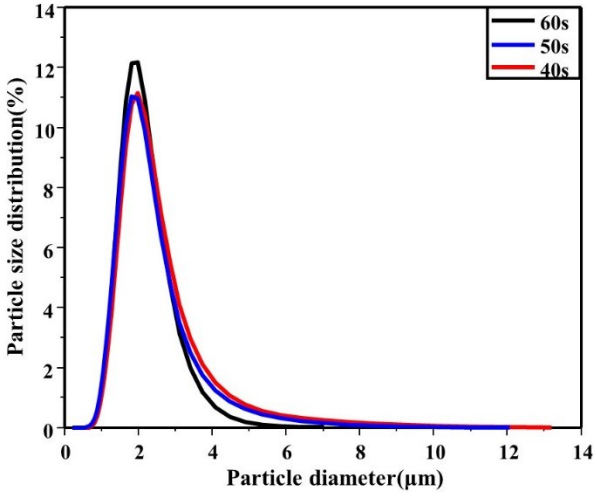
STable 1. The variance for different particle size distribution

No	STS concentration (g/L)	Mean diameter (μm)	Heating time (s)	Variance
1	35	1.846	70	0.241
2	40	1.837	80	0.239
3	45	1.857	90	0.241
4	50	1.842	100	0.245

The metatitanic acid particle size distribution was carried out under the microwave heating power was 800 w. The HTS concentration was 160 g/L, Fe/TiO_2 was 0.3 and the H_2SO_4/TiO_2 was 1.9.



SFigure 1. The particle size distributions of the metatitanic acid by different seeds preparation concentration.



SFigure 2. The particle size distributions of the metatitanic acid by different microwave heating time, and the hydrolization time was 3.5h.

STable 2. The particle size of different STS concentration seeds

STS concentration (g/L)	30	35	40	45	50
Particle size (nm)	2.1	2.1	3.0	3.2	3.5