

Supporting Information

Controllable synthesis of TiO₂ hierarchical nanostructures and their applications in lithium ion batteries

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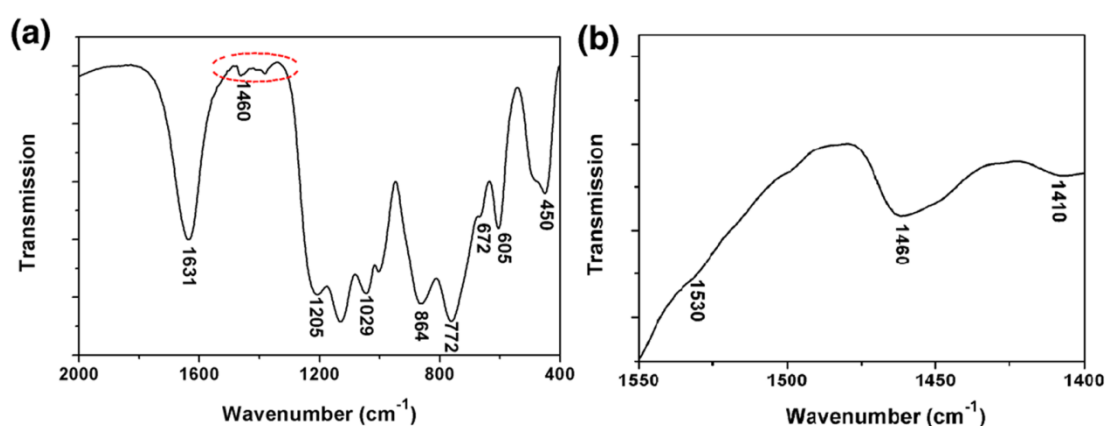


Figure S1 FTIR patterns of the white precipitates obtained without hydrothermal treatment in the Ti(SO₄)₂-CH₃COOH system. Chart (b) is a zoom of chart (a) in the range 1400-1550 cm⁻¹.

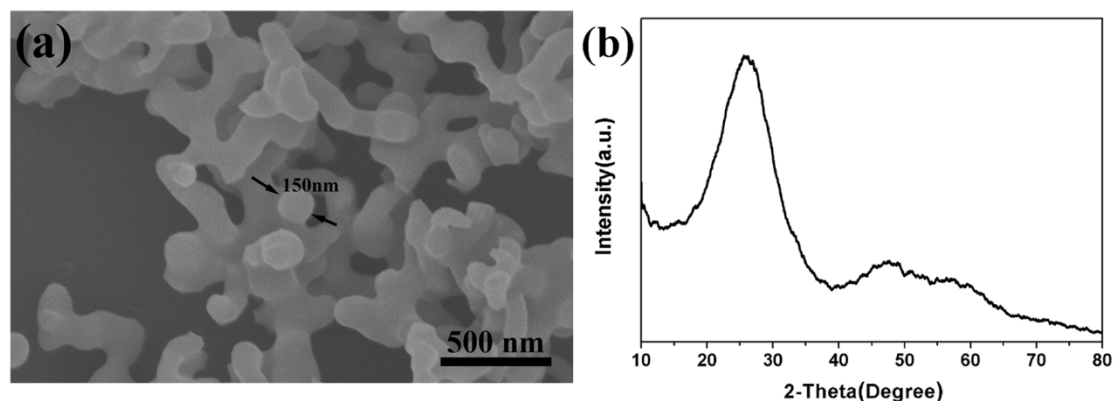


Figure S2 The SEM image and XRD pattern of the white precipitates obtained in the mixture of Ti(SO₄)₂ and CH₃COOH solution without hydrothermal treatment.

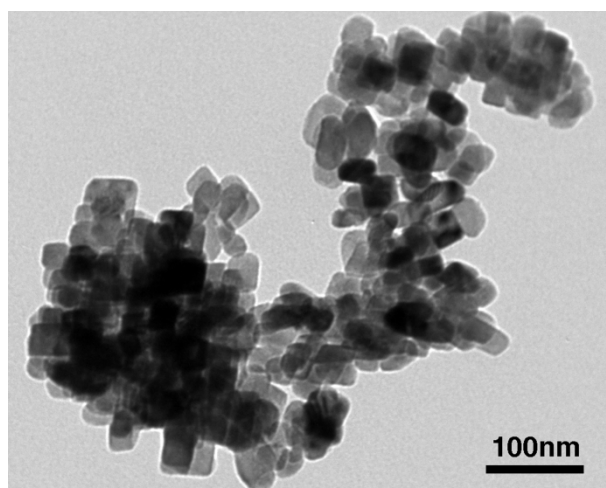


Figure S3 The TEM image of TiO_2 nanoparticles obtained in the high concentration of $\text{Ti}(\text{SO}_4)_2$.

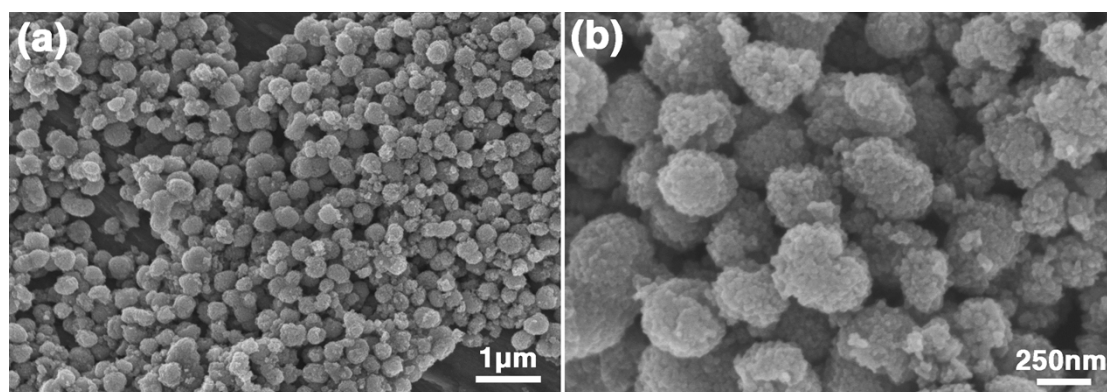


Figure S4 SEM images of TiO_2 hierarchical nanostructures after running 50 cycles at 1C in coin cells.