

Supplementary Information

Phonon Confinement Model to Measure the Average Sizes of Anatase Nanoparticles Synthesized by a Solvothermal Method Using H₂O₂

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Table S1. Nanoparticle sizes of different TiO₂ nanocrystals

Conditions	Anatase nanoparticle size / nm			
	XRD	Raman	TEM	
Calcination temperature / °C	100	6.1	8.6	8.8
	200	6.6	8.8	–
	300	7.4	9.8	–
	400	8.5	12.2	–
	450	9.4	13.4	–
	500	11.4	15.3	–
	600	Bulk	Bulk	–
Temperature of synthesis / °C	700	Bulk	Bulk	–
	80	7.0	8.5	–
	90	7.5	8.1	–
	100	6.1	7.6	–
Time of synthesis / h	6	7.8	7.5	–
	12	7.4	7.9	–
	24	9.3	8.4	–
	72	13.1	8.6	–
pH of synthesis	2	35 (bulk)	7.5	–
	7	10	7.9	–
	12	–	–	–

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