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## Continuous-Flow Production of Photocatalytically Active Titanium Dioxide Nanocrystals and Its Application to the Photocatalytic Addition of N, N-Dimethylaniline to N-Methylmaleimide

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### Abstract

A solvothermal continuous-flow method for the scalable and shape tunable synthesis of rod-like/spherical TiO<sub>2</sub> nanocrystals (NCs) has been developed. The as-prepared colloidal NCs show photocatalytic activity in an addition-cyclization cascade under continuous-flow conditions.

### Keywords

**Author Keywords:** flow chemistry; high-temperature chemistry; microreactors; nanomaterials; photocatalysis; titanium dioxide

**KeyWords Plus:** ELECTRON-DEFICIENT ALKENES; SENSITIZED SOLAR-CELLS; TERTIARY-AMINES; LOW-TEMPERATURE; MICROFLUIDIC SYNTHESIS; TIO2 NANOCRYSTALS; RADICAL-ADDITION; NANOPARTICLES; NANORODS; ENERGY

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