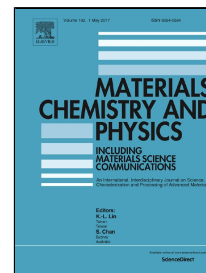


# Accepted Manuscript

Synthesis of Nano-TiO<sub>2</sub> with Slurry Explosives of Different Densities and Spread Calculation



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PII: S0254-0584(17)30235-3

DOI: 10.1016/j.matchemphys.2017.03.030

Reference: MAC 19576

To appear in: *Materials Chemistry and Physics*

Received Date: 30 March 2016

Revised Date: 21 February 2017

Accepted Date: 15 March 2017

Please cite this article as: Honghao Yan, Tiejun Zhao, Xiaojie Li, Xiaohong Wang, Linsong Wu, Synthesis of Nano-TiO<sub>2</sub> with Slurry Explosives of Different Densities and Spread Calculation, *Materials Chemistry and Physics* (2017), doi: 10.1016/j.matchemphys.2017.03.030

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## Highlights

- The detonation parameters of titaniferous explosives were calculated by BKW equation of state.
- The influence of density on nanoparticles' phases, morphology and size were studied.
- The spread range of detonation products is related to cartridge radius and  $P_{CJ}$ .
- The duration can be computed when spread range, cartridge radius, and  $P_{CJ}$  are known.

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