Preparation of nano-sized BaTiO₃ powders by spray pyrolysis with adding citric acid

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Barium titanate nano-sized powders were prepared by spray pyrolysis using bariim cabonate (BaCO3), titanium isoproxide(Ti(i-OC3H7)4) and citric acid($C6H8O9\cdot H2O$)as starting raw materials in an electric furnace heated at $1000\,^{\circ}$ C.

Barium titanate powders calcinated at 1050° C for 2hours were milled in ball mill (ZrO2 balls) for 20hours. Barium titanate powders prepared by spray pyrolysis had nano-sized particles and narrow particle distribution.