

Materials List for:

Molten-Salt Synthesis of Complex Metal Oxide Nanoparticles

Jose P. Zuniga¹, Maya Abdou¹, Santosh K. Gupta^{1,2}, Yuanbing Mao^{1,3}

¹Department of Chemistry, University of Texas Rio Grande Valley

²Radiochemistry Division, Bhabha Atomic Research Centre

³School of Earth, Environmental, and Marine Sciences, University of Texas Rio Grande Valley

Correspondence to: Yuanbing Mao at yuanbing.mao@utrgv.edu

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Materials

Name	Company	Catalog Number	Comments
Acetone, ACS, 99.5+%	Alfa Aesar	67-64-1	Dried over 4A sieves
Hafnium dichloride oxide octahydrate, 98+% (metals basis excluding Zr), Zr <1.5%	Alfa Aesar	14456-34-9	Hygroscopic
Lanthanum(III) nitrate hexahydrate	Aldrich	10277-43-7	Hygroscopic
Potassium nitrate, ReagentPlus R, ≥99.0%	Sigma-Aldrich	7757-79-1	Hygroscopic
Sodium nitrate, ReagentPlus R, ≥99.0%	Sigma-Aldrich	7631-99-4	
Ammonium hydroxide, 28% NH ₃ , NH ₄ OH	Alfa Aesar	1336-21-6	
Filter paper, P8 grade	Fisherbrand		