



Technical Data Sheet

ACS Material Cerium Oxide (CeO₂)

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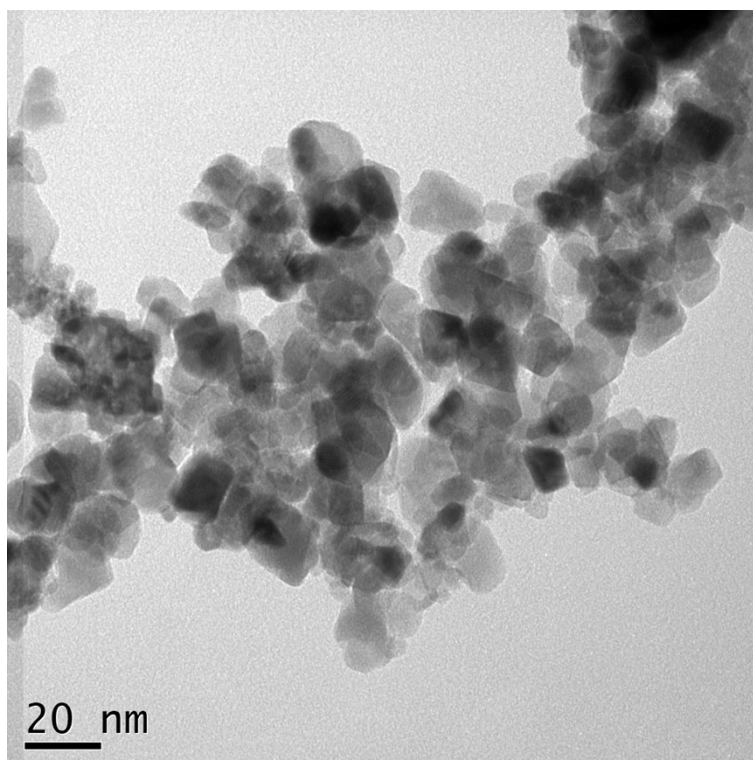
Revision: 012419

1. Preparation Method

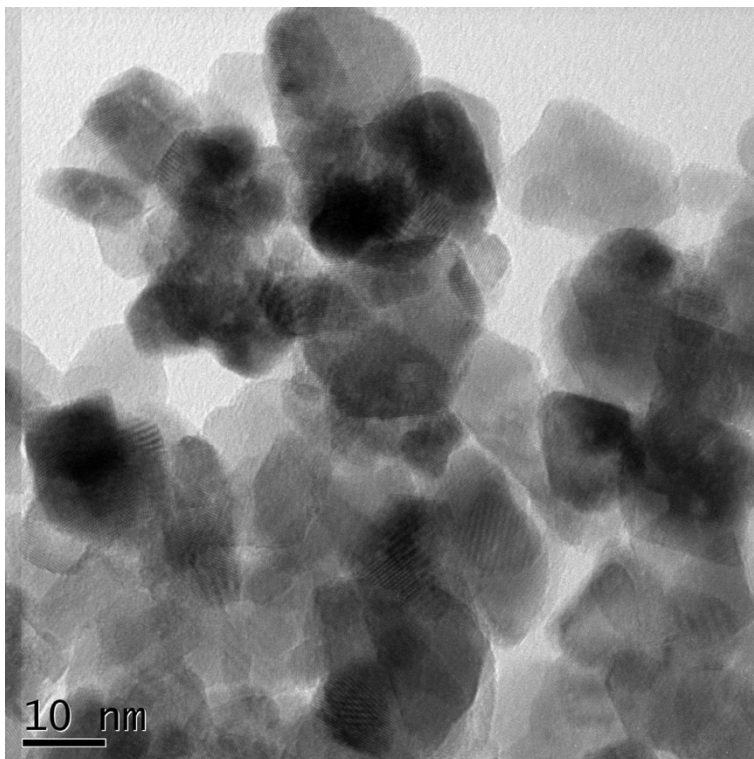
NA

2. Characterizations

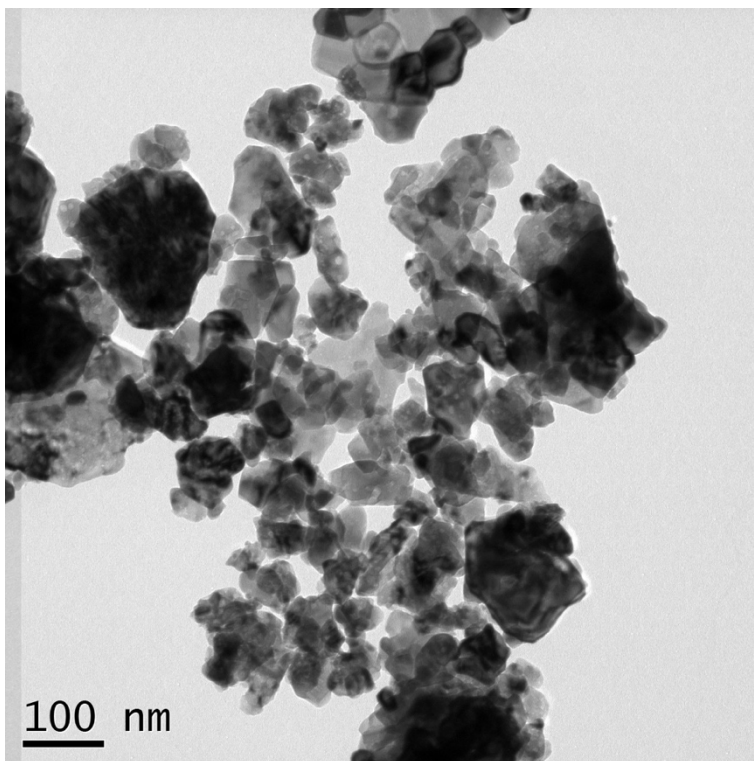
Type:	Type A	Type B
Purity:	>99.99%	>99.99%
Particle Size:	10-30 nm	50-80 nm
BET Surface Area:	~ 60 m ² /g	~ 30 m ² /g
Apparent Density:	1.6 g/cm ³	1.6 g/cm ³
Concentration (ppm):	La ₂ O ₃ (REO): ≤0.03 Pr ₆ O ₁₁ (REO): ≤0.04 Fe ₂ O ₃ : ≤0.01 SiO ₂ : ≤0.02 CaO: ≤0.01 Al ₂ O ₃ : ≤0.02	La ₂ O ₃ (REO): ≤0.03 Pr ₆ O ₁₁ (REO): ≤0.04 Fe ₂ O ₃ : ≤0.01 SiO ₂ : ≤0.02 CaO: ≤0.01 Al ₂ O ₃ : ≤0.02



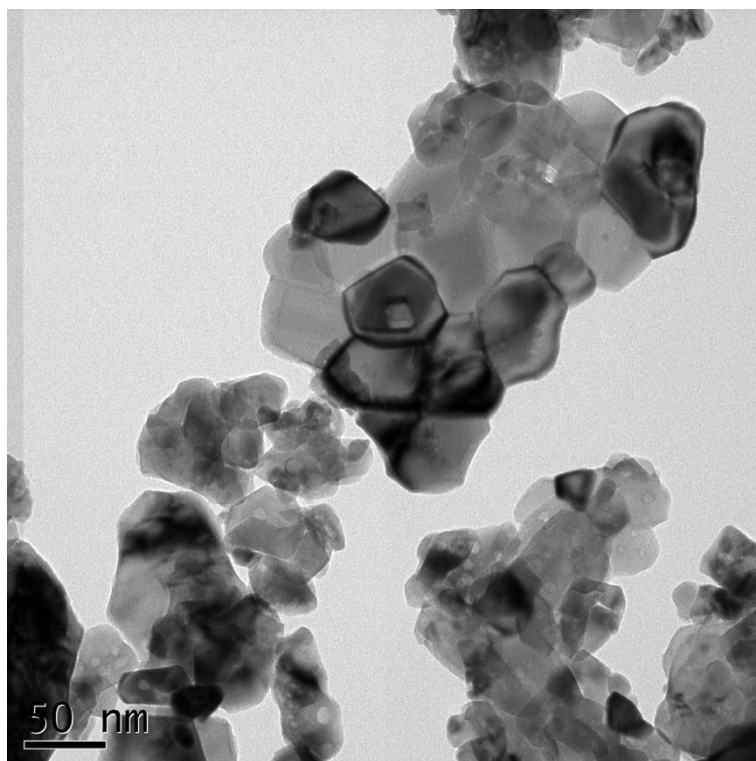
TEM Image of ACS Material CeO₂ (Type A: 10-30 nm)



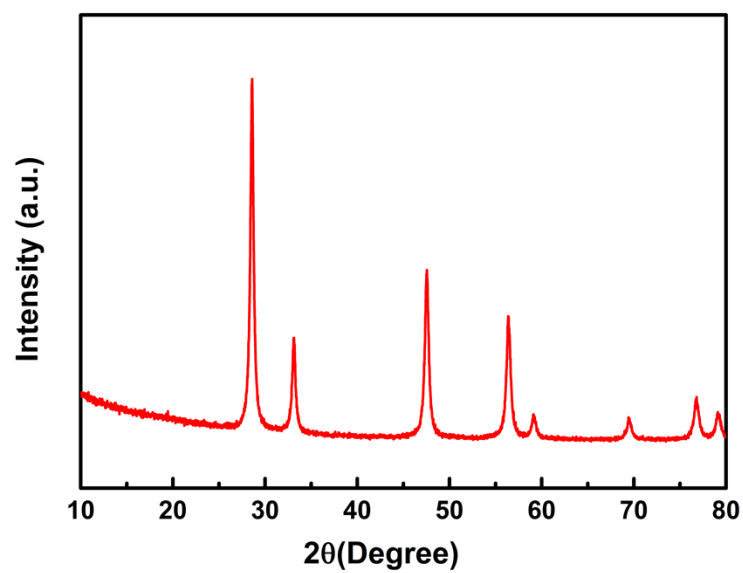
TEM Image of ACS Material CeO₂ (Type A: 10-30 nm)



TEM Image of ACS Material CeO₂ (Type B: 50-80 nm)



TEM Image of ACS Material CeO₂ (Type B: 50-80 nm)



XRD Analysis of ACS Material Cerium Oxide (CeO₂)

3. Application Fields

- High efficiency catalyst, manufacture phosphors and precision polishing, chemical additives, electronic ceramics, structural ceramics, UV absorbers, battery materials, *etc.*

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