

Deposition of Au nanoparticles inside porous CeO₂ nanocubes using Langmuir Blodgett Technique

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Supporting information SI-1

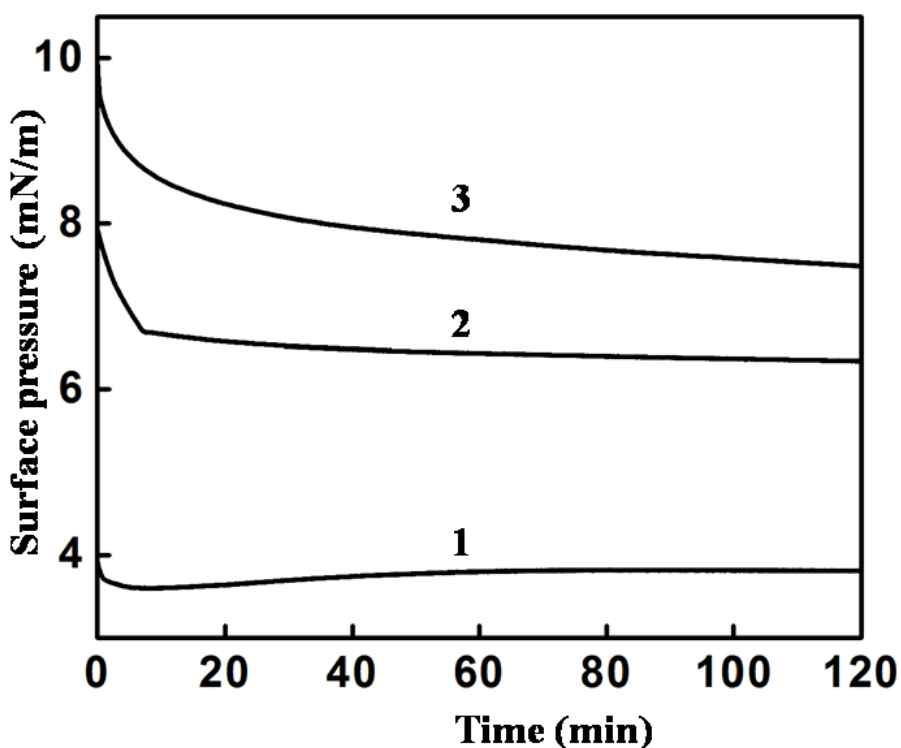


Figure SI-1: Surface pressure versus time plots of CeO₂ nanocubes over water subphase at surface pressures of 4 mN/m (curve 1), 8 mN/m (curve 2) and 10 mN/m (curve 3).

Supporting information SI-2

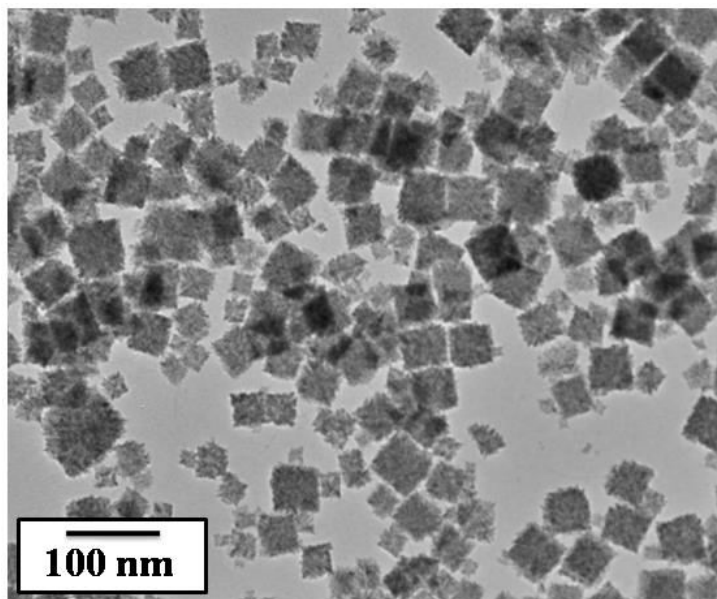


Figure SI-2. TEM image of CeO₂ nanocubes obtained by drop casting over carbon-coated Cu grid.

Supporting information SI-3

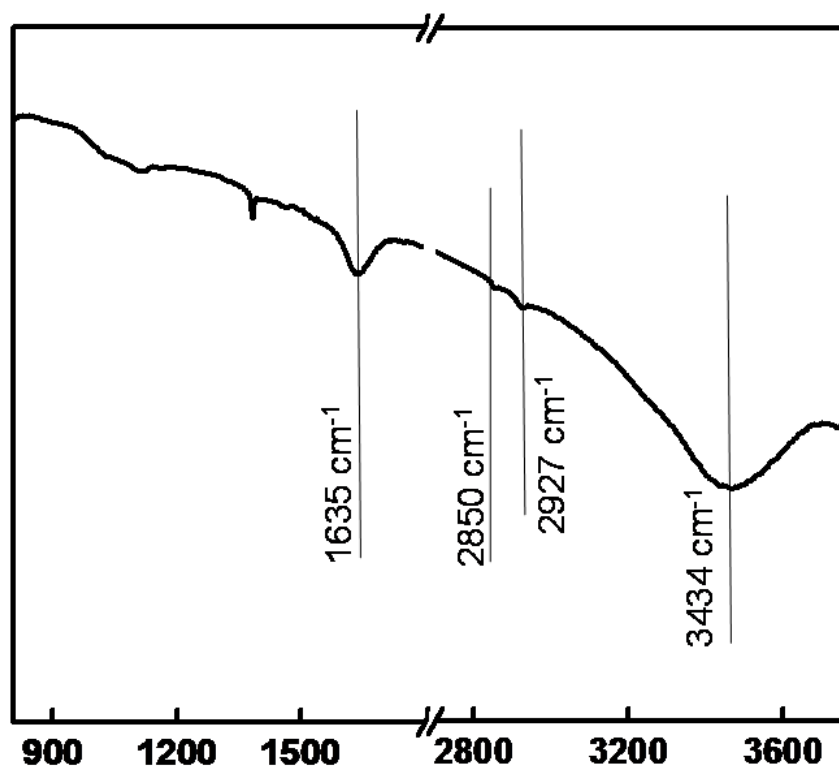


Figure SI-3. FTIR from the CeO₂-Au nanocomposites film deposited from the Langmuir monolayer using LB technique.

Supporting information SI-4

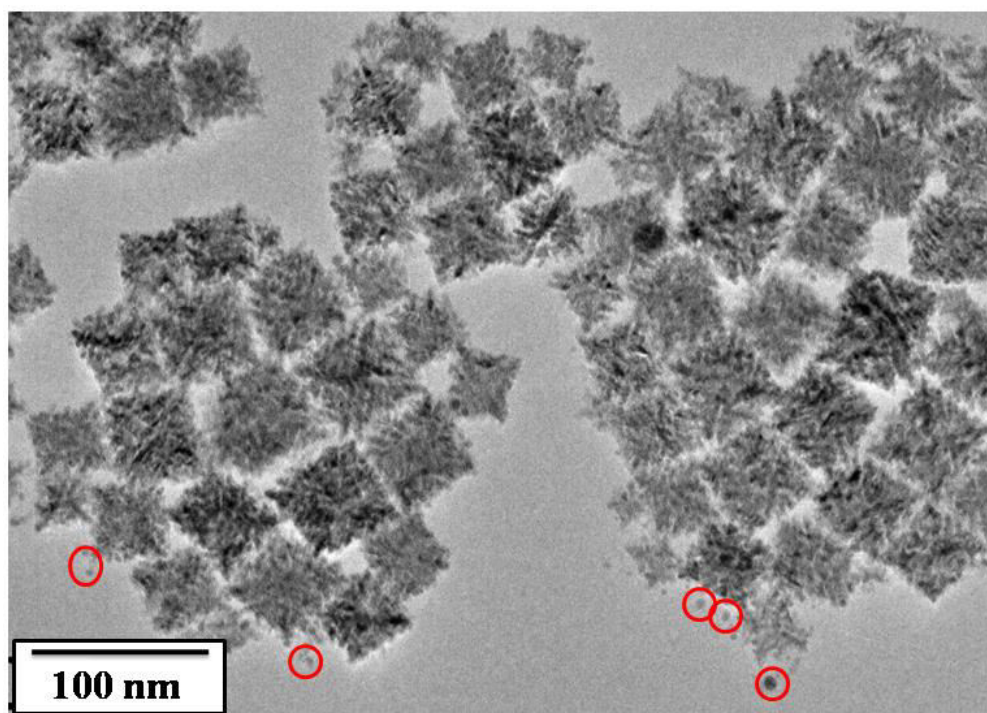


Figure SI-4. TEM image of CeO₂-Au hybrids obtained via LB method. Gold particles outside CeO₂ nanocubes were encircled with red.

Supporting information SI-5

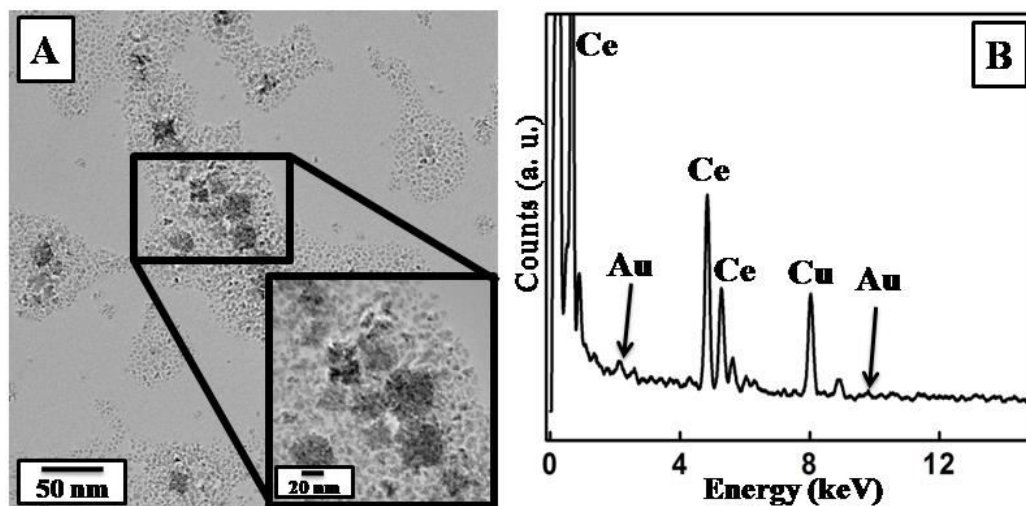


Figure SI-5. (A) TEM and (B) EDAX spectrum of CeO₂-Au hybrids obtained from the beaker based approach. A portion of the Fig. A was shown at higher magnification in the inset of it.