Deposition of Au nanoparticles inside porous CeO$_2$ nanocubes using Langmuir Blodgett Technique

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Supporting information SI-1

Figure SI-1: Surface pressure versus time plots of CeO$_2$ nanocubes over water subphase at surface pressures of 4 mN/m (curve 1), 8 mN/m (curve 2) and 10 mN/m (curve 3).
Figure SI-2. TEM image of CeO\textsubscript{2} nanocubes obtained by drop casting over carbon-coated Cu grid.
Supporting information SI-3

Figure SI-3. FTIR from the CeO$_2$-Au nanocomposites film deposited from the Langmuir monolayer using LB technique.

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Figure SI-4. TEM image of CeO$_2$-Au hybrids obtained via LB method. Gold particles outside CeO$_2$ nanocubes were encircled with red.
Figure SI-5. (A) TEM and (B) EDAX spectrum of CeO\textsubscript{2}-Au hybrids obtained from the beaker based approach. A portion of the Fig. A was shown at higher magnification in the inset of it.