Supplementary Information

Structure and special chemical reactivity of interface stabilized cerium oxide nanolayers on TiO$_2$(110)

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Fig. S1 (left) STM pictures of CeO$_x$ deposited at 650 K and annealed at 750K in 2x10$^{-7}$ torr oxygen, (right) same preparation, but on an area of the sample that was shielded from the evaporator to limit ceria deposition

Fig. S2: Evolution as a function of temperature of the ratio between Ce 3d and Ti 2p photoemission spectra, evidencing the absence of significant diffusion of ceria into the bulk of titania.