



Supplementary Materials

Influence of Surface Properties of Nanostructured Ceria-Based Catalysts on Their Stability Performance

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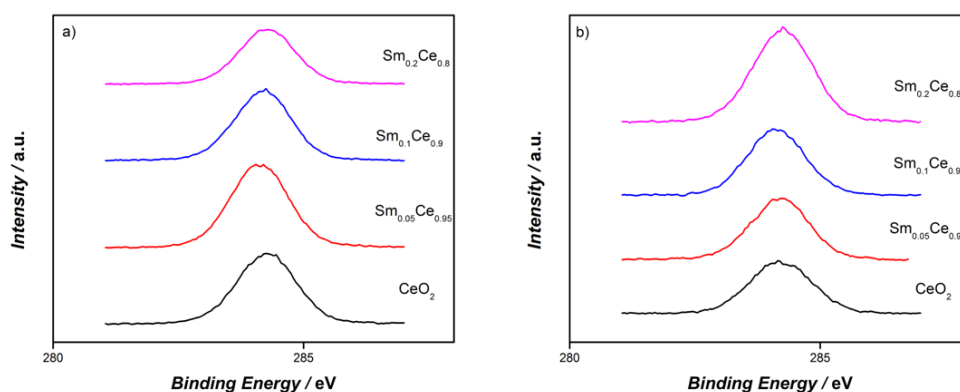


Figure S1. C1s spectra for all catalysts.

Table S1. Peak position of Ce 3d spectra for fresh and spent catalysts.

		v0	v	v1	v2	v3	u0	u	u1	u2	u3
		BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)	BE (eV)
Fresh Catalysts	CeO ₂	879.8	882.4	885.1	888.7	898.6	898.3	900.9	903.4	907.5	917.0
	Sm _{0.05} Ce _{0.95}	879.9	882.3	885.0	888.8	898.5	898.2	900.8	903.3	907.5	916.8
	Sm _{0.1} Ce _{0.9}	880.1	882.2	884.6	888.5	898.6	898.2	900.7	903.0	907.4	916.8
	Sm _{0.2} Ce _{0.8}	880.2	882.2	884.3	888.5	898.7	898.3	900.6	902.4	907.1	916.7
Spent Catalysts	CeO ₂	880.1	882.4	884.6	888.6	898.7	898.2	900.9	903.0	907.6	917.0
	Sm _{0.05} Ce _{0.95}	880.2	882.4	884.6	888.7	898.6	898.2	900.8	902.9	907.4	916.9
	Sm _{0.1} Ce _{0.9}	880.2	882.4	884.5	888.7	898.7	898.3	901.0	902.8	907.7	917.1
	Sm _{0.2} Ce _{0.8}	880.1	882.3	884.8	888.6	898.7	898.2	900.9	903.2	907.6	916.9