SUPPORTING INFORMATION

Title

Low-temperature selective catalytic dehydrogenation of methylcyclohexane by surface protonics

Authors

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Figure S1 XRD spectra for Pt/TiO₂ catalyst.



Figure S2 STEM image and EDX mapping of Pt over Pt/TiO₂; STEM image for (a) as made and (b) after EF; EDX mapping for (c) as made and (d) after EF.

Table S1 Deposited coke amount over Pt/TiO_2 catalyst after MCH dehydrogenation for 120 min.

Condition	Coke deposition amount / mg g-cat ⁻¹	
After EF (423 K)	2.1	
After heat (498 K)	2.7	

Table S2 Metallic surface area of Pt over each catalyst condition.

Condition	Metal surface area / m^2g^{-1}	
	Pt/TiO ₂	Pt/CeO ₂
As made	1.0	1.7
After EF	0.7	1.6