**Fig. S1.** Time-on-stream (TOS) behaviour over the Ag/alumina catalysts at 250 (■) and 450 (▲) °C in the presence (dash) or absence (solid) of hydrogen using hexadecane as the reductant (fast measurements intervals). Gas flow: 500 ppm NO, 188 ppm n-C_{16}H_{34}, 6 vol.% O_2, 12 vol.% H_2O, 0 or 1 vol.% H_2 and He balance. GHSV = 60 000 h^{-1}.

**Fig. S2.** Time-on-stream behaviour over the Ag/alumina catalysts at 250 °C, in the presence (dashed) or absence (solid) of hydrogen with diesel as a reducing agent (fast measurements intervals). Gas flow: 500 ppm NO, 250 ppm diesel, 6 vol.% O_2, 12 vol.% H_2O, 0 or 1 vol.% H_2 and He balance. GHSV = 60 000 h^{-1}.
**Fig. S3.** SEM micrograph of sample 1. 2500X