NO Reduction by CH₄ over Well-Structured Pt Nanocrystal Supported on γ-Al₂O₃

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In the case of well-structured Pt(100) nanoparticles supported on alumina the formation of CO as well as of the NH₃ is suppressed. On the other hand, the classically prepared Pt/Al₂O₃ (usual) exhibits relatively high selectivity to CO and NH₃.