

Direct Methane Oxidation Over Pt Modified Nitrogen Doped

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[Abstract. Nitrogen -doped carbons derived from biomass precursors were modified with Pt 2+ and successfully tested as solid catalysts in the direct oxidation of methane in fuming sulfuric acid. Remarkably, the catalytic performance was found to be substantially better than the Pt-modified Covalent Triazine Framework \(CTF\) system previously reported, although deactivation is more pronounced for the biomass derived catalyst supports.](#)

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Methane oxidation was carried out for 30 minutes before the reactor was quenched in a water bath. Subsequently, the gas phase was quantified by FT-IR, while the liquid phase was filtrated, hydrolyzed and analyzed by HPLC as mentioned above.

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Pd and Pt are commonly used for methane oxidation, where Pd is considered to be more active at oxidative conditions whereas Pt is advantageous at rich (high CH₄ / O₂ ratio) conditions. However, it has been difficult to establish the active phase of the metal, particularly for Pd,....

[Methane oxidation over Pd and Pt studied by DFT and ...](#)

Nitrogen-doped carbons derived from biomass precursors were modified with Pt(2+) and successfully tested as solid catalysts in the direct oxidation of methane in fuming sulfuric acid.

[\[PDF\] Direct methane oxidation over Pt-modified nitrogen ...](#)

[Abstract](#) Using a mixture of NO + O₂ as the oxidant enabled the direct selective oxidation of methane to dimethyl ether (DME) over Pt/Y 2 O₃. The reaction was carried out in a fixed bed reactor at 0.1 MPa over a temperature range of 275-375 °C. During the activity tests, the only carbon-containing products were DME and CO₂.

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This conclusion is in agreement with published experimental electrochemical studies of methane oxidation on platinum catalysts that have shown the absence of an organic adlayer at electrode potentials that allow the oxidation of adsorbed CO. The mechanism of the electrooxidation of methane on Pt is discussed.

[Methane Oxidation Mechanism on Pt\(111\): A Cluster Model ...](#)

Catalytic transformation of methane (CH₄) into methanol in a single step is a challenging issue for the utilization of CH₄. We present a direct method for converting CH₄ into methanol with high selectivity over a Pt/CeO₂ catalyst which contains ionic Pt²⁺ species supported on a CeO₂ nanoparticle. The Pt/CeO₂ catalyst reproducibly yielded 6.27 mmol/g of Pt with a selectivity of over 95% at 300 °C when CH₄ and CO are used as reactants, while the catalyst had a lower activity when ...

[Partial oxidation of methane to methanol by isolated Pt ...](#)

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Although methane oxidation over monometallic PdO catalysts presumably proceeds via formates and not carbonate intermediates, sulfation of the bimetallic Pd-Pt catalyst possibly changes the reaction route or leads to partial oxidation to some extent. The fact that the intensity of this band decreases with increasing temperature, most likely due to facilitated carbonate desorption and decomposition at higher temperatures, supports this assumption.

[Understanding sulfur poisoning of bimetallic Pd-Pt methane ...](#)

We show that Cl-adsorbed Pt electrodes catalyze facile oxidation of PtII to PtIV at low overpotential without concomitant methanol oxidation. Exploiting this facile electrochemistry, we maintain the PtII/IV ratio during PtII-catalyzed methane oxidation via in situ monitoring of the solution potential coupled with dynamic modulation of the electric current. This approach leads to sustained methane oxidation catalysis with 70% selectivity for methanol.

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[Synthesis gas formation by direct oxidation of methane ...](#)

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[Direct methane oxidation over Pt-modified nitrogen-doped ...](#)

[Reddit.](#) [Mechan.](#) [Abstract.](#) The direct low-temperature oxidation of methane to methanol is demonstrated on a highly active homogeneous molecular catalyst system and on heterogeneous molecular catalysts based on polymeric materials possessing ligand motifs within the material structure. The N⁷(2-methylpropyl)₄,5,7-diazacarbazolyldichloro⁷platinum(II) complex reaches significantly higher activity compared to the well-known Periana system and allows first conclusions on electronic ...

[Development of Molecular and Solid Catalysts for the ...](#)

The direct oxidation of CH₄ to H₂ and CO in O₂ and in air at high temperatures over alumina foam monoliths coated with high loadings of Pt and Rh has been simulated using a 19⁷elementary⁷step model of adsorption, desorption and surface reaction steps with reaction parameters from the literature or from fits to previous experiments.

[Steps in CH4 oxidation on Pt and Rh surfaces: High ...](#)

The reaction between methane and oxygen over platinum and rhodium surfaces in metal-coated ceramic monoliths can be made to produce mostly hydrogen and carbon monoxide (greater than 90% selectivity)...

[Production of Syngas by Direct Catalytic Oxidation of Methane](#)

The direct partial oxidation of methane to methanol promises an energy-efficient and environmental-friendly utilization of natural gas. Unfortunately, current technologies confront a grand challenge in catalysis, particularly in the context of distributed sources.