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Direct Methane
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Nitrogen Doped
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Nitrogen
Doped

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~~Organic Chemistry IB~~
~~Topic 10.1~~ Grade 10
Chemistry 21

Shyamal Bej: Ethanol
amination over
nitrides and carbides

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Oxidation Over Pt
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

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Oxidation Over
Pt-Modified
Nitrogen-Doped
Covalent Triazine
Framework (CTF)
system previously
reported, although
deactivation is more
pronounced for the
biomass derived
catalyst supports.

Direct methane
oxidation over Pt-

Acces PDF

Direct Methane modified nitrogen- doped ...

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

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Direct Methane
above.
Oxidation Over
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Oxidation over Pt-
modified Nitrogen-
Doped ...

Pd and Pt are commonly used for methane oxidation, where Pd is considered to be more active at oxidative conditions whereas Pt is

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Oxidation Over
Pt Modified
Nitrogen-Doped
advantageous at rich
(high CH_4/O_2 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

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Direct Methane
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

Acces PDF

Direct Methane

enabled the direct selective oxidation of methane to dimethyl ether (DME) over Pt/Y₂O₃. 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

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and CO₂.

The Direct Partial
Oxidation of Methane
to Dimethyl Ether ...

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experimental Over
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.

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Oxidation Over
Methane Oxidation
Mechanism on
Pt(111): A Cluster
Model ...

Catalytic
transformation of
methane (CH_4) into
methanol in a single
step is a challenging
issue for the utilization
of CH_4 . We present a
direct method for
converting CH_4 into

Access PDF
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Oxidation Over
Pt Modified
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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,

Acces PDF
Direct Methane
while the catalyst had
a lower activity when
Pt Modified
Nitrogen Doped

Partial oxidation of
methane to methanol
by isolated Pt ...

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Modified Nitrogen
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Direct Methane

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

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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 ...

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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

Access PDF
Direct Methane
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.

Electrochemical
Reoxidation Enables
Continuous Methane-

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Direct Methane to ... Oxidation Over

The superiority of Rh over Pt for H₂ generation can be explained by a methane pyrolysis surface reaction mechanism of oxidation at high temperatures on these noble metals.

Synthesis gas
formation by direct

Acces PDF

Direct Methane oxidation of methane

Pt Modified
Nitrogen Doped
Direct low-
temperature methane
conversion is a
promising route for
the chemical industry
to access various
basic feedstocks in
the future. Developing
such technology to
displace the
traditional energy-
intensive syngas

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Direct Methane
oxidation pathway has attracted
increasing interest.

Direct Methane
Conversion under
Mild Condition by
Thermo ...

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Direct methane
oxidation over Pt-
modified nitrogen-
doped ...

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Abstract. The direct
low-temperature
oxidation of methane
to methanol is
demonstrated on a
highly active
homogeneous

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Oxidation Over
Pt Modified
Nitrogen Doped
molecular catalyst
system and on
heterogeneous
molecular catalysts
based on polymeric
materials possessing
ligand motifs within
the material structure.
The N -(2-methylpropyl)- $4,5$ -diazacarbazolyldichloro-platinum(II) complex reaches significantly higher activity compared to

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the well-known Over
Periana system and
allows first
conclusions on
electronic ...

Development of
Molecular and Solid
Catalysts for the ...

The direct oxidation of
 CH_4 to H_2 and CO
in O_2 and in air at
high temperatures
over alumina foam

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monoliths coated with
high loadings of Pt
and Rh has been
simulated using a
19 elementary step
model of adsorption,
desorption and
surface reaction steps
with reaction
parameters from the
literature or from fits
to previous
experiments.

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Direct Methane
Steps in CH₄ Over
oxidation on Pt and
Rh surfaces: High ...

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

Acces PDF
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Oxidation Over
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

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challenge in catalysis,
particularly in the
context of distributed
sources.

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