

9/13/17

Book of Abstracts

NCC6 - The 6th Catalysis Conference

April 27-30, 2016,

Bursa Technical University - Bursa / TURKEY

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| 0-EFCP4 | Performance test of monolithic Ni-based catalyts for carbon dioxide reforming of methane | <u>Aybüke Leba</u> , Ramazan Yıldırım |
| 0-EFCP5 | Structure-performance relationships in supported nickel catalysts for hydrogen production from ammonia | <u>İbrahim Şahin</u> , Alper Uzun |
| Oxidation catalysts | | |
| | TITLE | AUTHOR(S) |
| 0-OXC1 | The Effects of Reaction Parameters on Mn/Na ₂ WO ₄ /SiO ₂ Catalyst for Oxidative Coupling of Methane | <u>Hasan Özdemir</u> , M.A. Faruk Öksüzömer, M. Ali Gürkaynak |
| 0-OXC2 | Schiff Base complexes on bleach catalyst for the real industrial applications | Ertug Yildirim, <u>S. Zeki Yildiz</u> , Okan Yuzuak, Idil Yilmaz Yalinalp, Nihat Toslu |
| 0-OXC3 | CHARACTERIZATION OF CATALYTIC CONVERTER | Yiğit Türe, Emre Gürlek, <u>Nurcan Çalış Açıkbaş</u> , Şeref Soylu and Türker Gülü |

CHARACTERIZATION OF CATALYTIC CONVERTER

Yiğit Türe^a, Emre Gürlek^b, Nurcan Çalış Açıkbaz^a, Şeref Soylu^b and Türker GÜDÜ^c

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In this study, the analyses of a commercially available oxidation catalyst (two way catalytic converter) which was obtained from TOFAŞ A.Ş., were conducted in order to determine manufacturing process, chemical composition and phase analysis by several characterization methods, mainly optical microscopy, scanning electron microscopy (SEM) and x-ray diffraction (XRD). Macrostructural observations by optical microscopy showed that structure type was honeycomb and dimensions of cells and frame thickness were 1011x997.4 μm and 116.35 μm , respectively and shaping technique was extrusion. SEM (SEM-SE-EDX) was used for elemental analysis and size measurements of coating materials. The results showed that three layers of coating material existed and included carbon, oxygen, aluminium, silicon, titanium and cerium. The average thickness of each of layer was 25 μm . XRD analysis showed that the main phase was Cordierite.

28 April 2016 Thursday

RED SALOON

09:00-09:30

Opening Ceremony

Chairman: Prof.Dr. M.Ali GÜRKAYNAK

09:30-10:30

Prof.Dr.Jochaim SAUER – (EFCATS Francois Gault Lecture) Humboldt University, Berlin
Support Effect in Oxide Catalysis:C-H Bond Activation on Vanadia/Ceria Compared to Vanadia/Silica

10:30-10:50

Coffee Break

Chairman: Prof.Dr. Fabrizio CAVANI

10:50-11:10

İbrahim KORKUT/GTU/Ultrasound assisted biodiesel production in presence of dolomite catalyst

11:10-11:30

Serdar AKBAYRAK/METU/Ruthenium(0) nanoparticles supported on xonotlite nanowire: a long-lived catalyst for hydrolysis of ammonia-borane

11:30-11:50

Veli ŞİMŞEK /Gazi University/Synthesis of STA/SBA-15 Catalysts for Ethyl Acetate Production and Characterizations of Catalysts

11:50-12:10

Öykü PARLAR/Kocaeli University/Investigation Of Catalyst, Reaction Conditions And Process Design For Hydrogen Production From Steam Reforming Of Glycerol

12:10-12:30

Emre KILIÇ/IZTECH/Production Of 5-Hydroxymethylfurfural By Catalytic Dehydration Of Fructose Over SO₂/La-TiO₂-SiO₂

12:30-14:00

LUNCH

Chairman: Prof.Dr. Can ERKEY

14:00-14:40

Prof.Dr.Fabrizio CAVANI Bologna University „Industrial Chemistry“ Catalysis for bio-olefins production:
From research to industrial application”

14:40-15:00

Veysi HALVACI/METU/ Catalytic Role of Pyrite on Hydrodesulfurization of Lignite and Asphaltite

15:00-15:20

Ayşe Nur ÖZTÜRK /Atatürk University/Reduced Graphene Oxide (RGO) Supported Pt Nanoparticles: Effect Of Different Reducing Agents On RGO

15:20-15:40

Coffee Break

Chairman: Assist.Prof. Dr. Volkan DEGIRMENCI

15:40-16:00

Nuran Çaliş AÇIKBAŞ/TOFAŞ/Characterization of Catalytic Converter

16:00-16:20

Melike İmge ŞENDYMAK/Kocaeli University/ Biodiesel Production From Model Waste Vegetable Oil By Using Zirconium Sulfate Catalyst

16:20-16:40

Vahide Nuran MUTLU /IZTECH/Esterification of Cetyl Alcohol and Palmitic Acid Over W And Zr Containing Acidic Catalysts

16:40-17:00

Burcu ACAR/Bogazici University/Design and Characterization Of Selective CO₂ Adsorbent

17:00-19:00

TerraLab -POSTER PRESENTATION