

1 - High Throughput Catalysis - [Back to top](#)

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<i>Poster
Presentation</i> | <i>Engineering Advances in Combinatorial Chemistry Relevant to Heterogeneous Catalysis</i>
Authors:
Krawczyk, Mark A
Bennetsen, Jesper
Karlsson, Arne
Dahl, Ivar M
Mejdall, Thor
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<i>Poster
Presentation</i> | <i>High-throughput Screening of Tin Modified Platinum Catalyst Used for Liquid Phase Hydrogenation of Crotonaldehyde</i>
Authors:
Borbáth, Irina
Tompos, András
Gobölös, Sándor
Somodi, Ferenc
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<i>Poster
Presentation</i> | <i>Catalytic H₂S Conversion and SO₂ Production over Iron Oxide in Liquid Sulfur</i>
Authors:
Shields, Michael A
Clark, Peter D
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Alberta Sulphur Research Ltd / University of Calgary, Calgary, Alberta Canada |
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<i>Poster
Presentation</i> | <i>High Throughput Discovery of Noble Metal-free Ni-based Water-Gas-Shift Catalysts</i>
Authors:
Yaccato, Karin
Carhart, Ray
Hagemeyer, Alfred
Volpe, Anthony Jr.
Weinberg, Henry
Brooks, Christopher J
View PDF File for this Abstract | Symyx Technologies, Santa Clara USA
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Honda, Columbus USA |
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<i>Poster
Presentation</i> | <i>Innovative Approach of Improving ORR Kinetics using Non-Noble Metal based additives in Cathode Catalyst for PEM Fuel Cell Applications</i>
Authors:
Katikaneni, Sai P
Patel, Pinakin S
Suib, Steven S
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| 1
P-S1-06A | Monday
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<i>Poster
Presentation</i> | <i>Selective ring opening of decalin -Thermodynamics</i>
Authors:
Kiotikalapudi, Chandra Mouli
Vedachalam, Sundaramurthy
Dalai, Ajay K
Jagannathan, Govindhakannan
Zbigniew, Ring
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National Center for Upgrading Technology, Alberta Canada
National Center for Upgrading Technology, Alberta Canada |
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<i>Poster
Presentation</i> | <i>In situ Synchrotron EXAFS and XRD study of the synthesis of non-noble metal core/noble metal shell nanoparticles</i>
Authors:
Marinkovic, Nebojsa S
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Brookhaven Nat'l Lab, Upton, NY U.S.A. |

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1
 P-S1-08A
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*Poster
 Presentation*

Scale up of hydrogenation reactions from small scale parallel reactors
Authors:
 Singh, Jasbir
 HEL LTD, Barnet UK
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1
 P-S1-09A
 Monday
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*Poster
 Presentation*

Liquid phase hydrodechlorination of perchloroethylene over 0.8 wt. % Pd/TiO₂ sol-gel
Authors:
 Ardila, Alba N
 Universidad de Antioquia, Medellín Colombia
 Montilla, Iván D
 Universidad de Antioquia, Medellín Colombia
 Montes, Consuelo
 Universidad de Antioquia, Medellín Colombia
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1
 P-S1-10A
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*Poster
 Presentation*

Evaluation of Pd/TiO₂ washcoated cordierite monoliths for dichloromethane hydrodechlorination
Authors:
 González, Carlos Andrés
 Univ. de Antioquia, Medellín, Colombia
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1
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*Poster
 Presentation*

Study of the Resistance to Nitrogen Poison of Pt/SAPO-11 Catalyst by the Devised NH₃-TPD Characterizations
Authors:
 Zhang, Fei
 Beijing Research Institute of Chemical Industry, Sinopec, Beijing P.R.China
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1
 P-S1-12A
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*Poster
 Presentation*

Study of Oxidative Desulfurization of Jet Fuel Using Molecular Oxygen over Fe(NO₃)₃·9H₂O-FeBr₃ Catalyst at Room Temperature
Authors:
 Zhou, Anning
 Clean Fuels and Catalysis Program, The Energy Institute, The Pennsylvania State University, State College USA
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*Poster
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Oxychlorination of Ethane to Vinyl Chloride Over Copper ZSM-5
Authors:
 Olken, Michael M
 The Dow Chemical Company, Midland, MI USA
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 Jones, Mark
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Poster

Spatially-Resolved Calorimetry - Using IR Thermography to Evaluate Axial Distribution of Sorbed Species Across Integral Catalyst Beds
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 Aftab, Khurram
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 Currier, Neal W Cummins Inc, Columbus USA
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 P-S2-03A Monday
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*Poster
 Presentation*
Microstructure of Mo-V-Te-Nb mixed metal oxides for selective oxidation of propane to acrylic acid
Authors:
 Celaya Sanfiz, Almudena Fritz Haber Institute of the Max Planck Society, Berlin Germany
 Hansen, Thomas W Fritz Haber Institute of the Max Planck Society, Berlin Germany
 Timpe, Olaf Fritz Haber Institute of the Max Planck Society, Berlin Germany
 Su, Dangsheng Fritz Haber Institute of the Max Planck Society, Berlin Germany
 Trunschke, Annette Fritz Haber Institute of the Max Planck Society, Berlin Germany
 Schlögl, Robert Fritz Haber Institute of the Max Planck Society, Berlin Germany
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 P-S2-04A Monday
 6/18/2007
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*Poster
 Presentation*
Investigation of the Role of Pd-Alloying in the Coarsening Behavior of Nano-Particulate Alumina-Supported Pt Catalysts for NO Oxidation
Authors:
 Ezekoye, Obiefune K University of Michigan, Ann Arbor, Michigan United States
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2
 P-S2-05A Monday
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*Poster
 Presentation*
Resonance Raman Spectroscopy of Catalysts and Supports
Authors:
 Kim, Hack-Sung Northwestern University, Evanston/IL USA
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 Wu, Zili Northwestern University, Evanston/IL USA
 Stair, Peter C Northwestern University, Evanston/IL USA
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 P-S2-06A Monday
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*Poster
 Presentation*
Time-Resolved Ultraviolet Raman Spectroscopy of Coke Formation
Authors:
 Allotta, Paula M Northwestern University, Evanston, IL USA
 Stair, Peter C Northwestern University, Evanston, IL USA
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 P-S2-07A Monday
 6/18/2007
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*Poster
 Presentation*
MgO-Supported Decaosmium Cluster Catalyst for Ethylene Hydrogenation: Characterization by EXAFS and TEM
Authors:
 Kulkarni, Apoorva University of California, Davis CA USA
 Mitterbauer, Christoph University of California, Davis CA USA
 Browning, Nigel D University of California, Davis CA USA
 Gates, Bruce C University of California, Davis CA USA
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2
 P-S2-08A Monday
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*Poster
 Presentation*
UV and Visible Raman Spectroscopic Study of the Reduction Behavior of VOx/theta-Al2O3 Catalysts
Authors:
 Stair, Peter C Northwestern University, Evanston/IL USA
 Wu, Zili Northwestern University, Evanston/IL USA
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2
 P-S2-09A Monday
 6/18/2007
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Poster
Redox Behavior and Activity Measurement of Individual Ceria-Zirconia Nanoparticles
Authors:
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 Crozier, Peter A Arizona State University, Tempe/AZ USA

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 Adams, James B Arizona State University, Tempe/AZ USA
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2 P-S2-10A Monday 6/18/2007 5:30 PM
Poster Presentation
A kinetic and in-situ XPS study of the NO oxidation reaction on a Pt(111) single crystal
Authors:
 Smeltz, Andrew D Purdue University, West Lafayette, IN USA
 Mulla, Shadab S Purdue University, West Lafayette, IN USA
 Zemlyanov, Dmitry Purdue University, West Lafayette, IN USA
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2 P-S2-11A Monday 6/18/2007 5:30 PM
Poster Presentation
Following the Reduction of Pt/Al₂O₃ catalysts using UV-Vis Spectroscopy
Authors:
 Contreras, Jose L Department of Energy, Universidad A. Metropolitana-Azcapotzalco, Mexico, D.F. Mexico
 Fuentes, Gustavo A Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico
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2 P-S2-12A Monday 6/18/2007 5:30 PM
Poster Presentation
Size and composition distribution dynamics of Pt alloy nanoparticle electrocatalysts probed by Anomalous Small Angle X-ray Scattering (ASAXS)
Authors:
 Yu, Chengfei University of Houston, Houston, TX USA
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2 P-S2-13A Monday 6/18/2007 5:30 PM
Poster Presentation
The Importance of Standardized Methods for Evaluating Catalytic Materials – The Role of ASTM's Committee D32 on Catalysts
Authors:
 Elks, Jeffery T ExxonMobil Process Research Labs, Annandale, New Jersey USA
 Thomas Szymanski Saint-Gobain NorPro Corp., 3840 Fishcreek Road, Stow, OH 44224 USA
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2 P-S2-14A Monday 6/18/2007 5:30 PM
Poster Presentation
Aberration-corrected STEM Imaging of Ag/Al₂O₃ Lean NO_x Catalyst
Authors:
 Blom, Douglas A ORNL, Oak Ridge, TN USA
 Moses, Melanie J ORNL, Oak Ridge, TN USA
 Narula, Chaitanya K ORNL, Oak Ridge, TN USA
 Allard, Lawrence F ORNL, Oak Ridge, TN USA
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2 P-S2-15A Monday 6/18/2007 5:30 PM
Poster Presentation
Theoretical description of ammonia adsorption at different low-indices V₂O₅ surfaces.
Authors:
 Witko, Malgorzata Institute of Catalysis and Surface Chemistry, PAS, Krakow Poland
 Hejduk, Pawel Institute of Catalysis and Surface Chemistry, PAS, Krakow Poland
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2 P-S2-16A Monday 6/18/2007 5:30 PM
Poster Presentation
Accurate Determination of the Size Distribution of Nanoparticles in Supported Metal Catalysts: Challenges and Opportunities
Authors:
 Liu, Jingyue University of Missouri -St. Louis, St. Louis, Missouri USA
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2 P-S2-17A Monday 6/18/2007
Metal-Support Effects in Pd and Ni Model Catalysts
Authors:

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 Axnanda, Stephanus
 Chen, Mingshu
 Goodman, D. Wayne

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Poster
 Presentation

Direct correlation of the structure and dispersion of SBA-15 supported vanadia model catalysts using multi in situ spectroscopy

Authors:
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 Schlögl, Robert

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Monday
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Poster
 Presentation

Investigation of Solid/Liquid Interfaces by Sum Frequency Spectroscopy: Acetonitrile Adsorption and Hydrogenation on Pt/Al₂O₃

Authors:
 Waldrup, Stephen B
 Williams, Christopher T

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Poster
 Presentation

Real-time spectroscopic control of a VPO catalyst for the selective oxidation of n-butane to maleic anhydride

Authors:
 Bennici, Simona
 Nijhuis, Xander
 Weckhuysen, Bert M

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Poster
 Presentation

Nano-Structural Changes in Supported Pt Catalysts during CO Oxidation

Authors:
 Narula, Chaitanya K
 Moses, Melanie J
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 Allard, Lawrence F

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Poster
 Presentation

Experimental and Theoretical Studies of the Mechanism for the Synthesis of Dimethyl Carbonate on Cu-exchange zeolite Y

Authors:
 Zhang, Yihua
 Zheng, Xiaobo
 Bell, Alexis T

University of California, Berkeley, CA USA
 University of California, Berkeley, CA USA
 University of California, Berkeley, CA USA

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Tuesday
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Poster
 Presentation

In-situ XAS Characterization of Low Gold Content Au/TiO₂ and Au/CeO₂ Catalysts during Preferential CO Oxidation in Hydrogen

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 Fuentes, Gustavo A
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Poster

In situ FTIR study of o-DCB interaction over Pd-Co loaded mordenite and sulfated zirconia

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 Correa, Consuelo
 Serykh, Alexander Department of Chemical Engineering, University of South Carolina, Columbia, SC USA
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 P-S2-25B Tuesday 6/19/2007 5:30 PM
Poster Presentation
Investigating catalytic reactions by DRIFTS spectroscopy and isotopic exchanges at the chemical steady-state: a quantitative approach.
Authors:
 Meunier, Frederic C Queen's University, Belfast UK
 Sirita, Jinda Queen's University, Belfast UK
 Rooney, David Queen's University, Belfast UK
 Shekhtman, Sergyi Queen's University, Belfast UK
 Hardacre, Chris Queen's University, Belfast UK
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2
 P-S2-26B Tuesday 6/19/2007 5:30 PM
Poster Presentation
The Importance of Standardized Methods for Evaluating Catalytic Materials – The Role of ASTM's Committee D32 on Catalysts
Authors:
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 P-S2-27B Tuesday 6/19/2007 5:30 PM
Poster Presentation
Ex-situ Reactor Enabled Microstructural Monitoring: Elucidating Lean NOx Trap Deterioration Parameters
Authors:
 Moses, Melanie J Oak Ridge National Laboratory, Oak Ridge, TN USA
 Narula, Chaitanya K Oak Ridge National Laboratory, Oak Ridge, TN USA
 Allard, Lawrence F Oak Ridge National Laboratory, Oak Ridge, TN USA
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Poster Presentation
Probing TiO2 Surface Defect Sites with a Metal Carbonyl Cluster: Characterization by EPR, IR, and EXAFS Spectroscopies
Authors:
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2
 P-S2-29B Tuesday 6/19/2007 5:30 PM
Poster Presentation
NMR imaging as a non-invasive technique to study the preparation of supported catalyst bodies
Authors:
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 P-S2-30B Tuesday 6/19/2007 5:30 PM
Poster Presentation
In Situ Investigation of Boehmite- gAlumina Transformation
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- Tuesday
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Presentation*
- Redox Behavior and Activity Measurement of Individual Ceria-Zirconia Nanoparticles***
Authors:
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P-S2-32B
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Presentation*
- Ethylene epoxidation over copper-silver bimetallic catalyst : surface characterization under reaction conditions***
Authors:
Zafeiratos, Spiros Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin Germany
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P-S2-33B
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Presentation*
- An in situ Investigation of CO Oxidation on Pd(110) by Polarization Modulation Infrared Reflection Absorption Spectroscopy (PM-IRAS)***
Authors:
Cai, Yun Texas A&M University, College Station/TX USA
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Goodman, D. Wayne Texas A&M University, College Station/TX USA
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Presentation*
- Formation and thermostability of Ni⁺ cations in NiZSM-5. Testing by DRIFTS of adsorbed N₂, H₂, D₂ and EPR spectroscopy***
Authors:
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Amiridis, Michael D Department of Chemical Engineering, University of South Carolina, Columbia SC USA
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P-S2-35B
- Tuesday
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Presentation*
- In situ FTIR Study of Photocatalytic CO₂ Reduction on Photocatalysts***
Authors:
Wu, Jeffrey C National Taiwan Univ., Taipei Taiwan
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- Tuesday
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Presentation*
- SSITKA-DRIFT analysis of the water-gas shift reaction on gold catalyst: elimination of formates seen by DRIFT as a key intermediate***
Authors:
Meunier, Frederic C Queen's University , Belfast UK
Reid, David Queen's University , Belfast UK
Shekhtman, Sergyi Queen's University , Belfast UK
Goguet, Alex Queen's University , Belfast UK
Hardacre, Chris Queen's University , Belfast UK
Burch, Robbie Queen's University , Belfast UK
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Flytzani-Stephanopoulos, Maria Tufts University, Medford, MA USA
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- Development of an effective fusion procedure for catalysts***
Authors:
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2
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Tuesday
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Catalyst Characterization via Aberration-Corrected STEM Imaging

Authors:
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2
P-S2-39B

Tuesday
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Pulse-Response TAP Studies of the Water-Gas-Shift Reaction over a Pt/CeO₂ Catalyst

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Tuesday
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Synthesis, Structure, and Catalytic Function of Anchored Metal-Oxo Species within Small-Pore Zeolites

Authors:
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Tuesday
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Gold Catalyst Supported on Ce_{0.5}Zr_{0.5}O₂-Al₂O₃ Prepared by Sol Gel

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Investigation of chalcogenide and pnictide supported gold catalysts

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Lupini, Andrew R Oak Ridge National Laboratory, Oak Ridge, TN USA
Pennycook, Stephen J Oak Ridge National Laboratory, Oak Ridge, TN USA
Dudney, Nancy J Oak Ridge National Laboratory, Oak Ridge, TN USA

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3
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Tuesday
6/19/2007
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Synthesis and characterization of zeolite-supported mononuclear ruthenium complex catalyst

Authors:
Ogino, Isao University of California, Davis, Davis / California USA
Gates, Bruce C University of California, Davis, Davis / California USA

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3
P-S3-05B

Tuesday
6/19/2007
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Novel Platinum-Based Nanocatalysts for Naphtha Reforming

Authors:
Trevino, Horacio Headwaters, Lawrenceville/NJ USA
Wu, Zhihua Headwaters, Lawrenceville/NJ USA
Zhou, Zhenhua Headwaters, Lawrenceville/NJ USA
Zhou, Bing Headwaters, Lawrenceville/NJ USA

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P-S3-06B | Tuesday
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<i>Poster
Presentation</i> | <p><i>Building Block-Based Catalysts: Tailoring Next Generation Titanosilicates</i></p> <p>Authors:
Mayes, Richard T Dept. of Chemistry, Univ. of Tennessee, Knoxville, TN USA
Barnes, Craig E Dept. of Chemistry, Univ. of Tennessee, Knoxville, TN USA
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<i>Poster
Presentation</i> | <p><i>Nanosized CeO₂ particles: Catalytic properties in CO oxidation.</i></p> <p>Authors:
Díaz, Gabriela UNAM, México/DF México
Gómez-Cortés, Antonio UNAM, México/DF México
Solís, Dora UNAM, México/DF México
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<i>Poster
Presentation</i> | <p><i>NANOSTRUCTURED CATALYSTS: TAILORING VANADIUM +4 AND +5 SITES ON SILICATE BUILDING BLOCK SOLIDS</i></p> <p>Authors:
Barnes, Craig E University of Tennessee, Knoxville/TN USA
Lee, Ming-Yung University of Tennessee, Knoxville/TN USA
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<i>Poster
Presentation</i> | <p><i>MOFs that catalyze air-based oxidations</i></p> <p>Authors:
Hill, Craig L Emory University, Atlanta/GA USA
Han, Jong Woo Emory University, Atlanta/GA USA
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<i>Poster
Presentation</i> | <p><i>A Well-Defined Rhodium Complex Catalyst Supported on Dealuminated Y Zeolite: Spectroscopic Characterization in the Working State</i></p> <p>Authors:
Liang, Ann J University of California, Davis, Davis, California U. S. A.
Kletnieks, Philip W University of Southern California, Los Angeles, California U. S. A.
Haw, James F University of Southern California, Los Angeles, California U. S. A.
Gates, Bruce C University of California, Davis, Davis, California U. S. A.
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P-S3-11B | Tuesday
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<i>Poster
Presentation</i> | <p><i>Isomerization of Cyclohexene: Effect of Number and type of Acid Sites.</i></p> <p>Authors:
Hernandez-Cortez, Jose G. Instituto Mexicano del Petroleo, Mexico DF Mexico
Lopez-Salinas, Esteban Instituto Mexicano del Petroleo, Mexico DF Mexico
Valente, Jaime S. Instituto Mexicano del Petroleo, Mexico DF Mexico
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P-S3-12B | Tuesday
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<i>Poster
Presentation</i> | <p><i>Developing Bifunctional Catalysts from Mg-Me-Al (Me:Cu, Fe, Ni, Zn) Calcined Hydrotalcite-Like Compounds</i></p> <p>Authors:
Valente, Jaime S IMP, Mexico, DF. Mexico
Hernandez-Cortez, Jose G IMP, Mexico, DF. Mexico
Lopez-Salinas, Esteban IMP, Mexico, DF. Mexico
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<i>Poster
Presentation</i> | <p><i>Control of TiO₂-based catalysts. Effect of chromium on TiO₂ phase transition</i></p> <p>Authors:
Pirault, L. LACCO, Poitiers France
Bellifa, A. University A. Belkaid, Tlemcen Algeria
Kappenstein, C. LACCO, Poitiers France
Choukchou-Braham, A University A. Belkaid, Tlemcen Algeria
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- 3
P-S3-14B Tuesday
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- Structural selectivity by molecular control in porous solid formation*
- Authors:**
Weckhuysen, Bert M Utrecht University, Utrecht the Netherlands
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- 3
P-S3-15B Tuesday
6/19/2007
5:30 PM
- Binding of NO₂ in BaY Faujasite Catalysts: In situ Time-resolved X-ray Diffraction Studies*
- Authors:**
Rodriguez, Jonathan A Brookhaven Nat. Lab., Upton, NY USA
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Kwak, Ja Hun Pacific Northwest Nat. Lab., Richland, WA USA
Peden, Charles H Pacific Northwest Nat. Lab., Richland, WA USA
Szanyi, Janos Pacific Northwest Nat. Lab., Richland, WA USA
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- 3
P-S3-16B Tuesday
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- Electroactive polymers as novel supports: Properties of Pd-Sn catalysts supported over polypyrrole or polyaniline for application in water treatment.*
- Authors:**
Dodouche, Ibrahim Laboratoire de Catalyse en Chimie Organique, Poitiers France
Epron, Florence Laboratoire de Catalyse en Chimie Organique, Poitiers France
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P-S3-17B Tuesday
6/19/2007
5:30 PM
- Fabrication of Porous ZnS and ZnO Nanoplates by Calcination of ZnS(en)0.5 Precursor and Their Photocatalytic Activity*
- Authors:**
Jang, Jum Suk Pohang University of Science and Technology, Pohang Korea
Yu, Chungjong Beamline Research Division, Pohang Accelerator Laboratory, Pohang Korea
Choi, Sun Hee Beamline Research Division, Pohang Accelerator Laboratory, Pohang Korea
Lee, Jae Sung Pohang University of Science and Technology, Pohang Korea
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- 3
P-S3-18B Tuesday
6/19/2007
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- Chiral Periodic Mesoporous Organosilicas for Asymmetric Catalysis*
- Authors:**
Yang, Qihua Dalian Institute of Chemical Physics, Dalian China
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- 3
P-S3-19B Tuesday
6/19/2007
5:30 PM
- Selective Hydrogenation of Acetylene in the Presence of Ethylene Using Zeolite-Supported Bimetallic Catalysts*
- Authors:**
Huang, Wei University of Delaware, Newark/Delaware USA
Lobo, Raul F University of Delaware, Newark/Delaware USA
Chen, Jingguang G University of Delaware, Newark/Delaware USA
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- 3
P-S3-20B Tuesday
6/19/2007
5:30 PM
- Synthesis and characterization of mesoporous titania modified with tungstophosphoric acid*
- Authors:**
Fuchs, Vanesa M CINDECA, La Plata Argentina
Pizzio, Luis R CINDECA, La Plata Argentina
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- 3
P-S3-21B Tuesday
6/19/2007
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- Effect of method of preparation of CuCeO₂ mixed oxides supported on Al-PILC on catalytic activity*
- Authors:**
Ramaswamy, Veda National Chemical Laboratory, Pune India
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P-S3-22B
- Tuesday
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Presentation*
- Oxidation of Ethanol to Acetaldehyde over Na-promoted vanadium oxide catalysts***
Authors:
Herrera, Jose E Chemical and Biochemical Engineering University of Western Ontario, London, ON Canada
Chimentao, Ricardo J Departament d'Enginyeria Química, Universitat Rovira i Virgili, Tarragona Spain
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Peden, Charles H. F Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland, WA US
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P-S3-23B
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6/19/2007
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Presentation*
- Peculiarity of the gold-additive interaction in the Au-Me-zeolite (Me=Cu, Fe, Ni) catalyst for CO oxidation studied by ¹²⁹Xe nuclear magnetic resonance***
Authors:
tuzovskaya, inga centro de ciencias de la materia condensada universidad nacional untonoma de mexico, baja
california mexico
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- 3
P-S3-24B
- Tuesday
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Presentation*
- Trimetallic NiMoW, CoMoW unsupported catalysts for HDS***
Authors:
Olivas, Amelia UNAM, Ensenada/Baja California Mexico
Alonso, Gabriel CIMAV, Chih/Chihuahua México
Galvan, Donald H UNAM, Ensenada/Baja California México
Fuentes, Sergio UNAM, Ensenada/Baja California México
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P-S3-25C
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Presentation*
- Structural changes in Au/TiO₂ during VOC oxidation***
Authors:
Altuzar, Faviola Department of Process Engineering, Universidad A. Metropolitana – Iztapalapa, Mexico
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- 3
P-S3-26C
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Presentation*
- Nanostructured Membrane Catalysis in ODH of Cyclohexane***
Authors:
Feng, Hao Northwestern University, Evanston/IL USA
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Presentation*
- Characterization of Mixed Micro - Meso-porous Catalysts for Membrane Applications***
Authors:
Conner, Wm. Curtis UMASS
UMASS, Amherst/MA
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- 3
P-S3-28C
- Wednesday
6/20/2007
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Presentation*
- New Cs-containing Structural Analogues of Mo-V-Nb-Te-O Type Oxides – Highly Prospective Catalysts for the Partial Oxidation of Methacrolein to Methacrylic Acid***
Authors:
schunk, stephan a hte aktiengesellschaft, heidelberg germany
hibst, hartmut basf, ludwigshafen germany
sundermann, andreas hte aktiengesellschaft, heidelberg germany
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P-S3-29C
- Wednesday
6/20/2007
5:30 PM
- New Catalysts with Commercial Potential Based on Gold***
Authors:

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Thompson, David T
Holliday, Richard J
van der Lingen, Elma
Corti, Christopher W
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Project AuTEK, London UK
World Gold Council, London UK
Project AuTEK, Randburg South Africa
World Gold Council, London UK

3
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Advanced Textural Characterization of Novel Nanoporous Materials with Hierarchical Pore Structure
Authors:
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3
P-S3-31C

Wednesday
6/20/2007
5:30 PM

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gamma-Al₂O₃-Supported Trirhenium Clusters: Catalyst for Propylene Conversion
Authors:
Lobo, Rodrigo J University of California , Davis, CA USA
Gates, Bruce C University of California , Davis, CA USA
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3
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6/20/2007
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Effect Of Zr On The Oxidation State Of Pd And Catalytic Activity Of The Sol-Gel Prepared Pd/Al₂O₃-ZrO₂ Catalysts
Authors:
Tiznado, Hugo University of California Riverside, Riverside, CA USA
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3
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Highly Selective Size-Selected Nanocatalysts: I. Oxidative Dehydrogenation of Propane by Pt₈-10 Clusters Supported on Mesoporous Anodized Aluminum Oxide Membranes and II. Oxidation of Alkenes on Size-Selected Silver and Gold Clusters and Nanopart
Authors:
Vajda, Stefan Argonne National Laboratory, Argonne, IL 60439 USA
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3
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Synthesis of Single-Walled Carbon Nanotubes by Decomposition of Methane on CoMo/MgO Catalysts Prepared by a Combustion Method
Authors:
Scodelaro, Federico A University of Oklahoma, Norman, Oklahoma USA
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Monzon, Antonio Universidad de Zaragoza, Zaragoza Spain
Resasco, Daniel E University of Oklahoma, Norman, Oklahoma USA
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3
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Wednesday
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Degradable Dendritic Template for Synthesis of Siloxane Catalyst Nanocages
Authors:
Downing, Christopher M Northwestern University, Evanston, IL USA
Missaghi, Michael N Northwestern University, Evanston, IL USA

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Kung, Mayfair C
Kung, Harold H
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Northwestern University, Evanston, IL USA
Northwestern University, Evanston, IL USA

3
P-S3-36C
Wednesday
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Influence of cerium content on ZrO₂-SO₂- on the transformation of cumene in the alkylation of benzene with propylene
Authors:
Lugo Del Angel, Fabiola E
Silva Rodrigo, Rebeca
Vázquez Ródriguez, Armando
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Instituto Mexicano del Petróleo, Ciudad Madero México
Instituto Tecnológico de Ciudad Madero, Ciudad Madero México
Instituto Mexicano del Petróleo, Ciudad de México México

3
P-S3-37C
Wednesday
6/20/2007
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Progress on Synthesis and Catalysis of Mesoporous Zeolite Single Crystals
Authors:
Christensen, Claus H
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Technical University of Denmark , Lyngby Denmark

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P-S3-38C
Wednesday
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Acid Functionalized Silica Coated Magnetic Nanoparticle Catalysts
Authors:
Gill, Christopher S
Jones, Christopher W
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Georgia Institute of Technology, Atlanta/GA USA
Georgia Institute of Technology, Atlanta/GA USA

3
P-S3-39C
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6/20/2007
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A QM/MM Study of Potential Steps in Direct Propylene Epoxidation Using H₂ and O₂ on Au/TS -1 Catalysts
Authors:
Joshi, Ajay
Thomson, Kendall T
Delagss, Nicholas W
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Purdue University, West Lafayette/IN USA

3
P-S3-40C
Wednesday
6/20/2007
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Characterization and catalytic evaluation of dendrimer-derived Pt-Cu/SiO₂ catalysts
Authors:
Xie, Hong
Monnier, John R
Williams, Christopher T
Ploehn, Harry J
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University of South Carolina, Columbia, SC USA
University of South Carolina, Columbia, SC USA
University of South Carolina, Columbia, SC USA
University of South Carolina, Columbia, SC USA

3
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Wednesday
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Bi-Component MoO₃-CeO₂ Catalyst Supported on Yttria Stabilized Alumina Aerogel: Textural, Structural and Surface Properties, as well as Catalytic Activities for the ThermalCatalytic Cracking (TCC)
Authors:
Al-Yassir, Nabil
Le Van Mao, Raymond
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Concordia University, Montreal Canada

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P-S3-42C
Wednesday
6/20/2007
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Utilizing Colloidal Silica and Aluminum Doped Colloidal Silica as a Binder in FCC Catalysts: Effects on Porosity, Acidity and Microactivity
Authors:
Holland, Brian T
Subramani, Velu
Gangwal, Santosh K
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Nalco, Naperville/IL USA
RTI International, Research Triangle Park/NC USA
RTI International, Research Triangle Park/NC USA

3
P-S3-43C
Wednesday
6/20/2007
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Correlation Between Oxygen Reduction Reaction and Oxidative Dehydrogenation Activities Over Nanostructured Carbon Catalysts
Authors:
Woods, Matthew P

The Ohio State University, Columbus, Ohio United States

Poster Presentation Burcu, Mirkelamoglu The Ohio State University, Columbus, Ohio United States
 Ozkan, Umit S The Ohio State University, Columbus, Ohio United States
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3 P-S3-44C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***Au/PO43– TiO2 Catalysts for CO Oxidation: Impact of Synthesis Details***
Authors:
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 Overbury, Steven Chemical Sciences Division, Oak Ridge USA
 Dai, Sheng Chemical Sciences Division, Oak Ridge National Lab, Oak Ridge USA
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3 P-S3-45C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***Transient and steady-state reactions on structurally characterized Au nanoparticles supported on SiO2 and TiO2***
Authors:
 Overbury, Steven H Oak Ridge National Laboratory, Oak Ridge / TN USA
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3 P-S3-46C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***MESOPOROUS SILICA GELS AND TiO2/SiO2 AND ZrO2-SiO2 MIXED OXIDES PREPARED VIA THE SOL-GEL METHOD***
Authors:
 Rodríguez , Avendaño R UAM-IZTAPALAPA, DISTRITO FEDERAL MEXICO
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3 P-S3-47C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***Zeolite Beta Films Assembled via the Langmuir-Blodgett Technique***
Authors:
 Doyle, Aidan M Manchester Metropolitan University, Manchester United Kingdom
 Valtchev, Valentin Université de Haute Alsace, Mulhouse France
 Tosheva, Lubomira Manchester Metropolitan University, Manchester United Kingdom
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3 P-S3-48C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***Synthesis and Characterization of Mesoporous Zeolites and Molecular Sieves Based on Carbon Particles***
Authors:
 Wang, Feng University of Cincinnati, Cincinnati, OH USA
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 Smirniotis, Panagiotis G University of Cincinnati, Cincinnati, OH USA
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3 P-S3-49C Wednesday 6/20/2007 5:30 PM
Poster Presentation ***In-situ Time-resolved Characterization of Catalysts: Nickel-molybdate and the Water-gas shift Reaction***
Authors:
 Wen, Wen Chemistry Department, Brookhaven National Laboratory, Upton/NY USA
 Calderon, Jean F Department of Chemistry, University of Puerto Rico, Cayey Puerto Rico
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3 P-S3-50B Tuesday 6/19/2007 5:30 PM
Novel Nanocatalysts on the Base of Ultra Thin Polyelectrolyte Layers in Selective Hydrogenation of Acetylenic Alcohols
Authors:

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Presentation

Sulman, Ester Tver Technical University, Tver Russia
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3
P-S3-51C Wednesday
6/20/2007
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NOx abatement by HC-assisted SCR over combustion synthesised-supported Ag catalysts

Authors:
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3
P-S3-52C Wednesday
6/20/2007
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Novel Mo-V Based Mixed Oxide Catalysts for Propane Ammoxidation

Authors:
 Shiju, Nirappurackal R University of Cincinnati, Ohio USA
 Guliants, Vadim University of Cincinnati, Ohio USA
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P-S4-01A Monday
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Synthesis of Copper catalysts by various methods: use on the catalytic wet air oxidation of Ethyl tert-Butyl Ether (ETBE)

Authors:
 Torres, Gilberto UJAT, Cuanduan Tabasco Mexico
 Sanchez, Cecilia UJAT, Cuanduan Tabasco Mexico
 Lunagomez, Antonia UJAT, Cuanduan Tabasco Mexico
 Tzompantzi, Francisco UAM-I, Mexico DF Mexico
 Del Angel, Gloria A UAM-I, Mexico DF Mexico
 Gomez, Ricardo UAM-I, Mexico DF Mexico
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4
P-S4-02A Monday
6/18/2007
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Microkinetic Model Development of NOx Storage and Reduction over Pt/BaO/Al2O3 Catalysts using Temporal Analysis of Products

Authors:
 Kumar, Ashok University of Houston, Houston, TX USA
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 Medhekar, Vinay ,
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4
P-S4-03A Monday
6/18/2007
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Catalytic Wet Air Oxidation of Azo-Dye Orange II: In Search of An Efficient Catalyst

Authors:
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4
P-S4-04A Monday
6/18/2007
5:30 PM

Identifying critical factors in the regeneration of NOx-trap materials under realistic conditions using fast transient techniques

Authors:
 Breen, John P Queens University Belfast, Belfast UK
 Burch, Robbie Queens University Belfast, Belfast UK

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Fontaine-Gautrelet, Celine Queens University Belfast, Belfast UK
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 Rioche, Cyrille Queens University Belfast, Belfast UK
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4 P-S4-05A Monday 6/18/2007 5:30 PM
Poster Presentation
Engine bench tests over a Ag/Al₂O₃ converter for continuous HC-SCR under lean conditions using a 6.4 liter common rail turbo diesel off road engine
Authors:
 Arve, Kalle Åbo Akademi University, Turku Finland
 Eränen, Kari Åbo Akademi University, Turku Finland
 Hoikkala, Jani Turku University of Applied Sciences, Turku Finland
 Ekman, Krister Turku University of Applied Sciences, Turku Finland
 Niemi, Seppo Turku University of Applied Sciences, Turku Finland
 Murzin, Dmitry Yu. Åbo Akademi University, Turku Finland
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4 P-S4-06A Monday 6/18/2007 5:30 PM
Poster Presentation
Ammonia and Nitrous Oxide Formation During NO_x Storage and Reduction on Pt/Ba Monolith Catalyst
Authors:
 Clayton, Robert D Univ. of Houston, Houston, TX US
 Balakotaiah, Vemuri Univ. of Houston, Houston, TX US
 Harold, Michael P Univ. of Houston, Houston, TX US
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4 P-S4-07A Monday 6/18/2007 5:30 PM
Poster Presentation
The catalytic photocatalytic degradation of 2,4,6-trichlorophenol over M_x⁺/ZrO₂ photocatalysts
Authors:
 Gonzalez, Richard D Tulane University, New Orleans/LA USA
 Lemus, M. Alvarez Universidad Autonoma Metropolitana-Iztapalapa, Mexico City Mexico
 Lopez, Tessy Universidad Autonoma Metropolitana, Mexico City Mexico
 Odriozola, J Sevilla University, Sevilla Spain
 Quintana, P CINVESTAV-IPN, Merida Mexico
 Aquilar, D CINVESTAV-IPN, Merida Mexico
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4 P-S4-08A Monday 6/18/2007 5:30 PM
Poster Presentation
Activity promotion of Au/TiO₂ catalyst by defect generation for oxidation and preferential oxidation of CO
Authors:
 Mahmood, Asif KAIST, Daejeon Rep. Korea
 Woo, Seong Ihl KAIST, Daejeon Rep. Korea
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4 P-S4-09A Monday 6/18/2007 5:30 PM
Poster Presentation
NO_x Reduction on a transition metal-free γ-Al₂O₃ catalyst using Dimethylether (DME) as a reducing agent
Authors:
 ozensoy, emrah Bilkent University, Ankara Turkey
 Herling, Darrel Pacific Northwest National Laboratory, Richland / WA U.S.A
 szanyi, janos Pacific Northwest National Laboratory, Richland / WA U.S.A
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4 P-S4-10A Monday 6/18/2007 5:30 PM
Poster Presentation
Two-Stage Lean NO_x Reduction with Methane on Pd and Co Catalysts
Authors:
 Yung, Matthew M Ohio State University, Columbus, OH 43210
 Mirkelamoglu, Burcu Ohio State University, Columbus, OH 43210
 Ozkan, Umit S Ohio State University, Columbus, OH 43210
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4 P-S4-11A Monday 6/18/2007 5:30 PM
Poster
Influence of Steam on the Destructive Oxidation of m-Dichlorobenzene over V₂O₅/TiO₂ catalysts
Authors:
 Hetrick, Casey E University of South Carolina, Columbia, SC US
 Patcas, Florian University of South Carolina, Columbia, SC US
 Amiridis, Michael D University of South Carolina, Columbia, SC US

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4 P-S4-12A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Fast Regenerable Sulfur Dioxide Absorbents For Diesel Engine Emission Control</i> Authors: Li, Liyu Pacific Northwest National Lab, Richland, WA King, David L Pacific Northwest National Lab, Richland, WA View PDF File for this Abstract
4 P-S4-13A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Influence of SiO₂/Al₂O₃ molar ratio on adsorption of NO and NO₂ over Cu-mordenites and H-mordenites</i> Authors: Simakov, Andrey CCMC-UNAM, Ensenada/Baja California Mexico Petranovskii, Vitalii CCMC-UNAM, Ensenada/Baja California Mexico Espinoza, Hernandez Departamento de Investigación en Zeolitas y Posgrado de Ciencias Ambientales del Instituto de Cienci, Ciudad Universitaria, CP 72570, Puebla Mexico View PDF File for this Abstract
4 P-S4-14A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Enhanced Mass Transfer Substrates: Results with a Preferential Oxidation (PROX) Pt/Al₂O₃ catalyst.</i> Authors: Barrai, Federico Columbia University, New York/ NY USA View PDF File for this Abstract
4 P-S4-15A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Density Functional Theory Study of Pd-based Pseudomorphic Monolayer Alloy Catalysts for NO_x Storage Reduction Applications</i> Authors: Jelic, Jelena University of Illinois at Chicago, Chicago/IL USA Meyer, Randall J University of Illinois at Chicago, Chicago/IL USA View PDF File for this Abstract
4 P-S4-16A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>ZSM5 catalyst onto stainless steel monolith for environmental applications</i> Authors: Zamaro, Juan M Instituto de Investigaciones en Catálisis y Petroquímica - Facultad de Ingeniería Química (UNL), Santa Fe Argentina Ulla, María A Instituto de Investigaciones en Catálisis y Petroquímica - Facultad de Ingeniería Química (UNL), Santa Fe Argentina Miró, Eduardo E Instituto de Investigaciones en Catálisis y Petroquímica - Facultad de Ingeniería Química (UNL), Santa Fe Argentina View PDF File for this Abstract
4 P-S4-17A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Synthesis of Diesel Blending Stocks from Vegetable Oils</i> Authors: Dindi, Hasan DuPont, Wilmington/DE U.S.A. Sengupta, Sourav K DuPont, Wilmington/DE U.S.A. View PDF File for this Abstract
4 P-S4-18A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>MCM-41 used as a support of Pd catalysts for the hydrodechlorination of 1,2-dichloroethane</i> Authors: de los Reyes, Jose A UAMI, Mexico City Mexico Martin Guaregua, Nancy C UAMI, Mexico City Mexico Lopez-Gaona, Jesus A UAMI, Mexico City Mexico Aguilar-Pliego, Julia UAMA, Mexico City Mexico View PDF File for this Abstract
4 P-S4-19A	Monday 6/18/2007 5:30 PM Poster	<i>Immobilization of Pd-on-Au Nanoparticle Catalysts for Aqueous-phase Trichloroethene Hydrodechlorination</i> Authors: Fang, Yu -lun Rice University, Houston/TX USA Nutt, Michael O Rice University, Houston/TX USA Heck, Kimberly N Rice University, Houston/TX USA

Presentation Alvarez, Pedro Rice University, Houston/TX USA
 Wong, Michael S Rice University, Houston/TX USA
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4 P-S4-20A Monday 6/18/2007 5:30 PM
Poster Presentation

An Ultra Stable Ni-Co Catalyst for CO₂ Reforming of CH₄
Authors:
 Wang, Hui H University of Saskatchewan, Saskatoon/Saskatchewan Canada
 Zhang, Jianguo University of Saskatchewan, Saskatoon/Saskatchewan Canada
 Dalai, Ajay K University of Saskatchewan, Saskatoon/Saskatchewan Canada
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4 P-S4-21A Monday 6/18/2007 5:30 PM
Poster Presentation

Soot combustion: reactivity of alkaline and earth-alkaline metal oxides in full contact with soot
Authors:
 Lietti, Luca Politecnico Milano, Milan Italy
 Castoldi, Lidia Politecnico Milano, Milan Italy
 Matarrese, Roberto Politecnico Milano, Milan Italy
 Forzatti, Pio Politecnico Milano, Milan Italy
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4 P-S4-22A Monday 6/18/2007 5:30 PM
Poster Presentation

Study of the reduction by H₂, CO and NH₃ of NO_x species stored over Pt-Ba/Al₂O₃ Lean NO_x Trap systems
Authors:
 Lietti, Luca Politecnico Milano, Milan Italy
 Nova, Isa Politecnico Milano, Milan Italy
 Forzatti, Pio Politecnico Milano, Milan Italy
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4 P-S4-23A Monday 6/18/2007 5:30 PM
Poster Presentation

Increased NH₃ and N₂O emissions from three-way catalytic converters
Authors:
 Mejia_Centeno, Isidro Dept. of Process Engineering; Universidad A. Metropolitana -Iztapalapa, Mexico, D.F. Mexico
 Fuentes, Gustavo A Dept. of Process Engineering; Universidad A. Metropolitana - Iztapalapa, Mexico, D.F. Mexico
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4 P-S4-24A Monday 6/18/2007 5:30 PM
Poster Presentation

Peculiar Changes in Pt Accessibility and Morphology for Pt/BaO-Al₂O₃ Lean NO_x Trap Catalysts with Varying Sulfation Levels
Authors:
 Wang, XianQin Pacific Northwest National Lab, Richland, WA USA
 Kwak, Ja Hun Pacific Northwest National Lab, Richland, WA USA
 Kim, Do Heui Pacific Northwest National Lab, Richland, WA USA
 Wang, Chongmin Pacific Northwest National Lab, Richland, WA USA
 Szanyi, Janos Pacific Northwest National Lab, Richland, WA USA
 Peden, Chuck Pacific Northwest National Lab, Richland, WA USA
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4 P-S4-26A Monday 6/18/2007 5:30 PM
Poster Presentation

Cu/Activated Carbon for Catalytic Oxidation of Resistant Organics
Authors:
 Martínez, Nora D Universidad Nacional de San Juan, San Juan Argentina
 Venturini, Rosa B Universidad Nacional de San Juan, San Juan Argentina
 González, José E Universidad Nacional de San Juan, San Juan Argentina
 Silva, Hugo S Universidad Nacional de San Juan, San Juan Argentina
 Rodríguez, Ana M Universidad Nacional de San Juan, San Juan Argentina
 Pantano, María N Universidad Nacional de San Juan, San Juan Argentina
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4 P-S4-27A Monday 6/18/2007 5:30 PM
Poster

Global oxidation kinetics for platinum diesel oxidation catalysts
Authors:
 Sampara, Chaitanya S University of Michigan, Ann Arbor / MI USA
 Bissett, Edward J General Motors, Warren / MI USA

Presentation Chiemeleski, Matthew General Motors, Warren / MI USA
 Assanis, Dennis University of Michigan, Ann Arbor / MI USA
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4 P-S4-28A Monday 6/18/2007 5:30 PM
Poster Presentation **Development of a visible-light sensible ZnS-ZnO photocatalyst and the enhanced photocatalytic activity of Pt/ZnS-ZnO under visible light irradiation**
Authors:
 Kim, Cham DGIST, Daegu Korea
 Doh, Seok Joo DGIST, Daegu Korea
 Lee, Se Geun DGIST, Daegu Korea
 Lee, Sung Jun DGIST, Daegu Korea
 Kim, Ho Young DGIST, Daegu Korea
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4 P-S4-29A Monday 6/18/2007 5:30 PM
Poster Presentation **Adsorption of Ethanol on hydrophobic zeolites**
Authors:
 Bustamante, Felipe Universidad de Antioquia, Medellin Colombia
 Montes de Correa, Consuelo Universidad de Antioquia, Medellin Colombia
 Callejas, Juan E Universidad de Antioquia, Medellin Colombia
 Orozco, Natalia Y Universidad de Antioquia, Medellin Colombia
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4 P-S4-30A Monday 6/18/2007 5:30 PM
Poster Presentation **A Study of Chemical Aging Effects on HDD SCR Catalyst Performance**
Authors:
 Silver, Ronald G Caterpillar Inc., Peoria, IL USA
 Stefanick, Matthew Caterpillar Inc., Peoria, IL USA
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4 P-S4-31A Monday 6/18/2007 5:30 PM
Poster Presentation **Performance Characterization of Cu/Zeolite and Fe/Zeolite Catalysts for the Selective Catalytic Reduction of NOx**
Authors:
 Cavataio, Giovanni Ford Motor Company, Dearborn, Michigan USA
 Girard, James Ford Motor Company, Dearborn, Michigan USA
 Patterson, Joseph Ford Motor Company, Dearborn, Michigan USA
 Montreuil, Clifford Ford Motor Company, Dearborn, Michigan USA
 Cheng, Yisun Ford Motor Company, Dearborn, Michigan USA
 Lambert, Christine Ford Motor Company, Dearborn, Michigan USA
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4 P-S4-32A Monday 6/18/2007 5:30 PM
Poster Presentation **Evidence of Entropy Effects in the Reduction of Ceria-Zirconia Solid Solutions**
Authors:
 Shah, Parag R University of Pennsylvania, Philadelphia, PA USA
 Kim, Taeyoon University of Pennsylvania, Philadelphia, PA USA
 Zhou, Gong University of Pennsylvania, Philadelphia, PA USA
 Fornasiero, Paolo University of Trieste, Trieste Italy
 Gorte, Raymond J University of Pennsylvania, Philadelphia, PA USA
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4 P-S4-33A Monday 6/18/2007 5:30 PM
Poster Presentation **Oxidation Entropies and Enthalpies for Ceria-based catalysts**
Authors:
 Gong, Z Department of Chemical and Biomolecular Engineering, University of Pennsylvania, Philadelphia, PA 19104 USA
 Parag, R S Department of Chemical and Biomolecular Engineering, University of Pennsylvania, Philadelphia, PA 19104 USA
 Taeyoon, K Department of Chemical and Biomolecular Engineering, University of Pennsylvania, Philadelphia, PA 19104 USA
 Raymond, J G Department of Chemical and Biomolecular Engineering, University of Pennsylvania, Philadelphia, PA 19104 USA
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P-S4-34A | Monday
6/18/2007
5:30 PM | <p>Potential rare-earth modified CeO₂ catalysts for diesel soot oxidation</p> <p>Authors:
Krishna, kamasamudram
Makkee, Michiel
Bueno, Agustin L</p> <p>View PDF File for this Abstract</p> | <p>TU Delft, Delft Netherlands
TU Delft, Delft Netherlands
TU Delft, Delft Netherlands</p> |
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P-S4-35A | Monday
6/18/2007
5:30 PM | <p>Deoxygenation of Methyloctanoate and Isomerization of Paraffins over Supported Pt-Pd Catalysts</p> <p>Authors:
Do, Phuong T
Resasco, Daniel E</p> <p>View PDF File for this Abstract</p> | <p>University of Oklahoma, Norman/Oklahoma USA
University of Oklahoma, Norman/Oklahoma USA</p> |
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| 4
P-S4-36A | Monday
6/18/2007
5:30 PM | <p>Design of Modified Ferrite-Based Shift Catalysts for Ultra High Temperature Membrane Reactor Applications</p> <p>Authors:
Khan, Mohammed A
Smirniotis, Panagiotis G</p> <p>View PDF File for this Abstract</p> | <p>University of Cincinnati, Cincinnati/OH USA
University of Cincinnati, Cincinnati/OH USA</p> |
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P-S4-37A | Monday
6/18/2007
5:30 PM | <p>NO_x storage over alkaline earth oxides supported on g-Al₂O₃</p> <p>Authors:
VERRIER, Christelle</p> <p>View PDF File for this Abstract</p> | <p>PNNL, Richland WA</p> |
| <hr/> | | | |
| 4
P-S4-38A | Monday
6/18/2007
5:30 PM | <p>Characterization of K-Promoted Ru Catalysts for Ammonia Decomposition Discovered Using High-Throughput Experimentation</p> <p>Authors:
Pyrz, William D
Vijay, Rohit
Lauterbach, Jochen
Vlachos, Dionisios G
Buttrey, Douglas J</p> <p>View PDF File for this Abstract</p> | <p>University of Delaware, Newark, Delaware United States
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University of Delaware, Newark, Delaware United States
University of Delaware, Newark, Delaware United States
University of Delaware, Newark, Delaware United States</p> |
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| 4
P-S4-39A | Monday
6/18/2007
5:30 PM | <p>Preferential Oxidation of Carbon Monoxide from Cold Start under a Simulated Exhaust Gas Stream on a crushed Pd/Al₂O₃ monolith.</p> <p>Authors:
Brown, Jacqueline
Hardacre, Chris</p> <p>View PDF File for this Abstract</p> | <p>Queen's University, Belfast, Belfast Northern Ireland
Queen's University, Belfast, Belfast Northern Ireland</p> |
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P-S4-40A | Monday
6/18/2007
5:30 PM | <p>Microkinetic Modeling of Ethanol and other Hydrocarbon (HC)-based Selective Catalytic Reduction (SCR) of NO_x on Silver-based Catalyst</p> <p>Authors:
Mhadeshwar, Ashish B
Buddle, Stanlee
Eiteneer, Boris
Palmatier, Alison
Vitse, Frederic
Winkler, Benjamin
Wood, Benjamin
Hancu, Dan</p> <p>View PDF File for this Abstract</p> | <p>GE Global Research, Niskayuna, NY 12309 USA
GE Global Research, Niskayuna, NY 12309 USA
GE Infra, Energy, Santa Ana, CA 92705 USA
GE Global Research, Niskayuna, NY 12309 USA
GE Global Research, Niskayuna, NY 12309 USA
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GE Global Research, Niskayuna, NY 12309 USA</p> |
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| 4
P-S4-42A | Monday
6/18/2007
5:30 PM | <p>Towards a Mechanistic Understanding of the Catalytic Destruction of Chlorinated C₁ Hydrocarbons on La-based materials.</p> <p>Authors:</p> | |

Poster Presentation	van der Heijden, Alwies Weckhuysen, Bert Garcia Ramos, Maria View PDF File for this Abstract	Utrecht University, Utrecht Netherlands Utrecht University, Utrecht Netherlands Utrecht University, Utrecht Netherlands
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4 P-S4-43A	Monday 6/18/2007 5:30 PM Poster Presentation	<i>Control of Metal-Insulator-Semiconductor Sensor Performance through Surface Modification</i> Authors: Marshall, Steve University of Colorado, Boulder, CO USA Bastasz, Robert Sandia National Laboratories, Livermore, CA USA Medlin, J. Will University of Colorado, Boulder, CO USA View PDF File for this Abstract
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4 P-S3-03B	Monday 6/18/2007 5:30 PM	<i>Reduction of NH4NO3 by NO: Acid Catalyzed Reduction May Prevent Catalyst Deactivation in Low Temperature DeNOx</i> Authors: Savara, Aditya Northwestern University, Department of Chemistry, Evanston, IL USA Li, Meijun Northwestern University, Department of Chemistry, Evanston, IL USA Sachtler, Wolfgang M.H. Northwestern University, Department of Chemistry, Evanston, IL USA Weitz, Eric Northwestern University, Department of Chemistry, Evanston, IL USA View PDF File for this Abstract
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4 P-S4-45B	Tuesday 6/19/2007 5:30 PM Poster Presentation	<i>Thermal durability and deactivation of Cu zeolite SCR catalysts</i> Authors: Chang, Russell Johnson Matthey Inc., Wayne USA Chen, Hai-Ying , Fedeyko, Joesph , Andersen, Paul , View PDF File for this Abstract
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4 P-S4-46B	Tuesday 6/19/2007 5:30 PM Poster Presentation	<i>Study of Oxidative Desulfurization of Jet Fuel Using Molecular Oxygen over Fe(NO3)3.9H2O-FeBr3 Catalyst at Room Temperature</i> Authors: Zhou, Anning Clean Fuels and Catalysis Program, The Energy Institute, The Pennsylvania State University, State College USA Ma, Xiaoliang Clean Fuels and Catalysis Program, The Energy Institute, The Pennsylvania State University, State College USA Song, ChunShan Clean Fuels and Catalysis Program, The Energy Institute, The Pennsylvania State University, State College USA View PDF File for this Abstract
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4 P-S4-47B	Tuesday 6/19/2007 5:30 PM Poster Presentation	<i>Adsorptive Denitrogenation of Liquid Hydrocarbons on Carbon Materials: A Fundamental Study</i> Authors: Almari, Masoud Pennsylvania State University, University Park/ PA USA Ma, X L Pennsylvania State University, University Park/ PA USA Song, C S Pennsylvania State University, University Park/ PA USA View PDF File for this Abstract
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4 P-S4-48B	Tuesday 6/19/2007 5:30 PM Poster Presentation	<i>The use of TiO2-coated activated carbon to oxidize TCE</i> Authors: LEE, DONG-KEUN Gyeongsang National University, Jinju/Gyeongnam Korea KIM, DUL-SUN Gyeongsang National University, Jinju/Gyeongnam Korea YOON, JUNG-HEE Gyeongsang National University, Jinju/Gyeongnam Korea SHIN, JAE-SUK Gyeongsang National University, Jinju/Gyeongnam Korea View PDF File for this Abstract
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4 P-S4-49B	Tuesday 6/19/2007 5:30 PM Poster	<i>The Effect of Oxygen Concentration in the Regeneration Phase on the Performance of a NOx Storage/Reduction Catalyst</i> Authors: Epling, William S University of Waterloo, Waterloo Canada Kisinger, Darren S University of Waterloo, Waterloo Canada
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4 P-S4-50B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Total Oxidation of Aromatic Compounds for Photocatalysis in the Gas Phase Authors: González Paredes, Osvaldo R Instituto Tecnológico de Ciudad Madero, Ciudad Madero México Sandoval Robles, Guillermo Instituto Tecnológico de Ciudad Madero, Ciudad Madero México García Alamilla, Ricardo Instituto Tecnológico de Ciudad Madero, Ciudad Madero México Melo Banda, José A Instituto Tecnológico de Ciudad Madero, Ciudad Madero México Silva Rodrigo, Rebeca Instituto Tecnológico de Ciudad Madero, Ciudad Madero México Arriaga Gaona, María L Universidad Veracruzana, Poza Rica México Terres Rojas, R Instituto Mexicano del Petróleo, México México Alonso Nuñez, Gabriel Centro de Investigaciones de Materiales Avanzados, Chihuahua México Paraguay Delgado, F. Centro de Investigaciones de Materiales Avanzados, Chihuahua México View PDF File for this Abstract
4 P-S4-51B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	TiO₂ photocatalyst thin film by emulsions and their activity in the degradation of phenol Authors: Rebollar, Moises Instituto de Investigaciones y Desarrollo Industrial, Ciudad de Mexico Mexico Silva, Erandy Y Instituto de Investigaciones y Desarrollo Industrial, Ciudad de Mexico Mexico Salmones, Jose Escuela Superior de Ingenieria Quimica, Ciudad de Mexico Mexico View PDF File for this Abstract
4 P-S4-52B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Selective Catalytic Reduction of NO_x with Diesel as Reductant Authors: Marshall, Christopher L Argonne National Laboratory, Argonne, IL USA Kropf, A. Jeremy Argonne National Laboratory, Argonne, IL USA Castagnola, Mario J Argonne National Laboratory, Argonne, IL USA Schwartz, Michael M Argonne National Laboratory, Argonne, IL USA View PDF File for this Abstract
4 P-S4-53B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Sulfation and Desulfation Studies of Model Lean NO_x Traps Authors: Pihl, Josh A ORNL, Knoxville, TN USA Toops, Todd J ORNL, Knoxville, TN USA View PDF File for this Abstract
4 P-S4-54B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Infrared Study of NO Reduction and Decomposition over Pd-based Catalysts under Simulated Lean-burn Conditions Authors: Miller, Duane D University of Akron, Akron/Ohio USA Chuang, Steven S University of Akron, Akron/Ohio USA View PDF File for this Abstract
4 P-S4-55B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Acid Site effects on the photocatalytic properties of ETS-10 & ETVS-10s toward the reduction of VOCs Authors: Nash, Michael J University of Delaware, Delaware USA Shough, Anne Marie University of Delaware, Delaware USA Doren, Douglas University of Delaware, Delaware USA Lobo, Raul F University of Delaware, Delaware USA View PDF File for this Abstract
4 P-S4-56B	Tuesday 6/19/2007 5:30 PM <i>Poster Presentation</i>	Solid state ²⁷Al NMR study of BaO/Al₂O₃ catalysts: BaAl₂O₄ formation and decomposition Authors: Kwak, Ja Hun PNNL, Richland WA USA Kim, Do Heui PNNL, Richland WA USA Szanyi, Janos PNNL, Richland WA USA Hu, Jian Zhi PNNL, Richland WA USA Peden, Charles H PNNL, Richland WA USA View PDF File for this Abstract

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P-S4-57B
- Tuesday
6/19/2007
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- Poster
Presentation*
- Development of a Coke Index for Estimating PM Emissions**
Authors:
Crossley, Steven P University of Oklahoma, Norman/Oklahoma US
Resasco, Daniel E University of Oklahoma, Norman/Oklahoma US
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- 4
P-S4-58B
- Tuesday
6/19/2007
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Presentation*
- CoLa mordenites steam resistant catalysts for the NOx SCR with CH4**
Authors:
Lombardo, Eduardo A INCAPE, Santa Fe Argentina
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- 4
P-S4-59B
- Tuesday
6/19/2007
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Presentation*
- Why is Pt-Ce-soot from fuel borne catalyst extremely active in soot oxidation?**
Authors:
Krishna, Kamasamudram TU Delft, Delft Netherlands
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- 4
P-S4-60B
- Tuesday
6/19/2007
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Presentation*
- Lactic acid hydrogenation over copper-containing catalysts**
Authors:
Simakova, Irina Boreskov Institute of Catalysis, Novosibirsk Russia
Simonov, M N Boreskov Institute of Catalysis, Novosibirsk Russia
Minyukova, T P Boreskov Institute of Catalysis, Novosibirsk Russia
Khasin, A A Boreskov Institute of Catalysis, Novosibirsk Russia
Simakov, Andrey CCMC -UNAM, Ensenada, Baja California Mexico
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- 4
P-S4-61B
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Presentation*
- Industrial dye waste-water treatment by electrochemical catalytic process using TiO2/ITO electrode**
Authors:
Doh, Seok Joo (DGIST) Daegu Gyeongbuk Institute of Science and Technology, Daegu South Korea
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Jo, Seog-Jin (DYETEC) Korea Deying Technology Center, Daegu South Korea
Choi, Jang-Seung (DYETEC) Korea Deying Technology Center, Daegu South Korea
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- 4
P-S4-62B
- Tuesday
6/19/2007
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- Poster
Presentation*
- Study of a Zeolite-based system as NH3-SCR catalyst for Diesel exhaust aftertreatment**
Authors:
Nova, Isabella Politecnico di Milano, Milan Italy
Antonio, Grossale Politecnico di Milano, Milan Italy
Enrico , Tronconi Politecnico di Milano, Milan Italy
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P-S4-63B
- Tuesday
6/19/2007
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- Poster
Presentation*
- Reaction Mechanism of the Photocatalytic Degradation of Phenol and 4-Chlorophenol with Ozone**
Authors:
Moctezuma, Edgar Universidad Autónoma de San Luis Potosí, San Luis Potosí MEXICO
Zermeño, brenda Universidad Autónoma de San Luis Potosí, San Luis Potosí MEXICO
González, Raúl Universidad Autónoma de San Luis Potosí, San Luis Potosí MEXICO
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- 4
P-S4-64B
- Tuesday
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- Poster
Presentation*
- The effect of NaOH on dioxin hydrodechlorination over Pd/Al2O3**
Authors:
Cobo, Martha Universidad de Antioquia, Medellin/Antioquia Colombia

Poster
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Quintero, Jairo Universidad de Antioquia, Medellin/Antioquia Colombia
Montes, Consuelo Universidad de Antioquia, Medellin/Antioquia Colombia
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Poster
Presentation

Nano-particle Vanadia-Anatase SCR deNOX Catalysts
Authors:
Kruse, Andreas J Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
Kristensen, Steffen B Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
Riisager, Anders Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
Rasmussen, Søren B Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
Hamma, Hind Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
Fehrmann, Rasmus Department of Chemistry, Technical University of Denmark, Kgs. Lyngby Denmark
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4
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Poster
Presentation

Reduction of NH₄NO₃ by NO: Acid Catalyzed Reduction May Prevent Catalyst Deactivation in Low Temperature DeNO_x
Authors:
Savara, Aditya Northwestern University, Department of Chemistry, Evanston, IL USA
Li, Meijun Northwestern University, Department of Chemistry, Evanston, IL USA
Sachtler, Wolfgang M.H. Northwestern University, Department of Chemistry, Evanston, IL USA
Weitz, Eric Northwestern University, Department of Chemistry, Evanston, IL USA
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4
P-S4-67B Tuesday
6/19/2007
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Poster
Presentation

The degradation of 2,4 dichlorophenoxyacetic acid over zirconia doped photocatalysts
Authors:
Gonzalez, Richard D Tulane University, New Orleans / LA USA
Lemus, M. Alvarez Universidad Autonoma Metropolitana, Mexico City Mexico
Lopez, Tessy Universidad Autonoma metropolitana, Mexico City Mexico
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4
P-S4-68B Tuesday
6/19/2007
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Poster
Presentation

Catalytic Partial Oxidation of BioEsters to yield Syngas and Olefins
Authors:
Rennard, David C University of Minnesota, Minneapolis USA
Dauenhauer, Paul J University of Minnesota, Minneapolis USA
Schmidt, Lanny D University of Minnesota, Minneapolis USA
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4
P-S4-69B Tuesday
6/19/2007
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Poster
Presentation

Kinetic Measurements and Modeling of NO_x Storage/Reduction Catalysts
Authors:
Ratts, Joshua L Purdue University, West Lafayette, IN USA
Mulla, Shadab S Purdue University, West Lafayette, IN USA
Cao, Lei Purdue University, West Lafayette, IN USA
Kromer, Brian Purdue University, West Lafayette, IN USA
Cumaranatunge, Lasitha Purdue University, West Lafayette, IN USA
Delgass, W. N Purdue University, West Lafayette, IN USA
Caruthers, James M Purdue University, West Lafayette, IN USA
Yezerets, Aleksey Cummins Inc., Columbus, IN USA
Currier, Neil W Cummins Inc., Columbus, IN USA
Ribeiro, Fabio H Purdue University, West Lafayette, IN USA
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4
P-S4-70B Tuesday
6/19/2007
5:30 PM

Poster
Presentation

Nanostructures for Photoelectrochemical Water Splitting
Authors:
Webster, Leon A University of Michigan, Ann Arbor, MI USA
Aurora, Peter H University of Michigan, Ann Arbor, MI USA
Thompson, Levi T University of Michigan, Ann Arbor, MI USA
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4 Tuesday ***NO_x reduction with hydrogen. A kinetic study***

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- P-S4-71B 6/19/2007 5:30 PM
Poster Presentation
- Authors:**
Lindholm, Anna Chalmers, Gothenburg Sweden
Olsson, Louise Chalmers, Gothenburg Sweden
Currier, Neal Cummins, Indiana USA
Yezerets, Aleksey Cummins, Indiana USA
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- 4 P-S4-72B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Probing the Mechanism of NO_x Reduction over BaNaY Zeolites: A DFT Study**
Authors:
Sung, Chun-yi Northwestern University, Evanston, IL USA
Broadbelt, Linda J Northwestern University, Evanston, IL USA
Snurr, Randall Q Northwestern University, Evanston, IL USA
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- 4 P-S4-73B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Effect of Chloride and Sulfur on the Activity of Pd and Pd-on-Au Nanoparticle Catalysts for Water-Phase Hydrodechlorination**
Authors:
Heck, Kimberly N Rice University, Houston, TX USA
Nutt, Michael O Rice University, Houston, TX USA
Alvarez, Pedro Rice University, Houston, TX USA
Wong, Michael S Rice University, Houston, TX USA
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- 4 P-S4-74B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Oxidative Desulfurization: Catalytic Generation of Organic Hydroperoxide in Refinery Hydrocarbon Streams**
Authors:
Brandvold, Timothy A UOP LLC, Des Plaines, IL USA
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- 4 P-S4-75B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Fast-regenerable sulfur dioxide absorbents for diesel engine emission control**
Authors:
Li, Liyu Pacific Northwest National Lab, Richland, WA
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- 4 P-S4-76B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Supported gold perovskite catalysts for diesel soot oxidation and CO emission control during DPF regeneration**
Authors:
Russo, Nunzio Politecnico di Torino, Torino Italy
Fino, Debora Politecnico di Torino, Torino Italy
Saracco, Guido Politecnico di Torino, Torino Italy
Specchia, Vito Politecnico di Torino, Torino Italy
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- 4 P-S4-77B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- A effect of H₂-H₂O pre-treatment over Pd catalyst for VOCs removal**
Authors:
Kim, Moon Chan Cheongju University, Cheongju South Korea
Ko, Sun Hwan Cheongju University, Cheongju South Korea
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- 4 P-S4-78B Tuesday 6/19/2007 5:30 PM
Poster Presentation
- Catalytic Wet Air Oxidation of Methyl tert-Butyl Ether (MTBE) using Gold supported catalysts prepared by deposition-precipitation method**
Authors:
Torres, Gilberto UJAT, Cunduacan Tabasco Mexico
Guzman, Carlos A UAM-I, Mexico DF Mexico
Del Angel, Gloria A UAM-I, Mexico DF Mexico
Gomez, Ricardo UAM-I, Mexico DF Mexico
Zanella, Rodolfo UNAM, Mexico DF Mexico
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- 4
P-S4-79B
- Tuesday
6/19/2007
5:30 PM
- Poster
Presentation*
- Plasma Catalytic Reactor for the Destruction of Diluted V at Low Temperatures***
Authors:
Kiwi-Minsker, L. Ecole Polytechnique Federal de Lausanne, Switzerland
Subrahmanyam, Ch. Ecole Polytechnique Federal de Lausanne, Switzerland
Renken, A. Ecole Polytechnique Federal de Lausanne, Switzerland
Magureanu, M. National Institute for Lasers, Plasma and Radiation Physics Bucharest, Romania
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- 4
P-S4-80B
- Tuesday
6/19/2007
5:30 PM
- Poster
Presentation*
- Catalytic Wet Air Oxidation of Ethyl Tert-Butyl Ether (ETBE) using Rh/Al₂O₃ and Rh/Ce-Al₂O₃ catalysts***
Authors:
Cuauhtémoc, Ignacio UAM-I, Mexico DF Mexico
Del Angel, Gloria UAM-I, Mexico DF Mexico
Torres, Gilberto UJAT, Cunduacan Tabasco Mexico
Bertin, Virineya UAM-I, Mexico DF Mexico
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- 5 - Catalyst Deactivation, Regeneration and Disposition - [Back to top](#)**
- 5
P-S5-01B
- Tuesday
6/19/2007
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- Poster
Presentation*
- Catalyst Sintering Kinetics and its Effect on Particle Size Distributions, with Examples for Gold Supported on TiO₂***
Authors:
Campbell, Charles T University of Washington, Seattle, WA USA
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- 5
P-S5-02C
- Wednesday
6/20/2007
5:30 PM
- Poster
Presentation*
- Progress Towards Producing Stable Gold Catalysts***
Authors:
Thompson, David T Project AuTEK, London UK
Corti, Christopher W World Gold Council, London UK
Holliday, Richard J World Gold Council, London UK
van der Lingen, Elma Project AuTEK, Randburg South Africa
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- 5
P-S5-03C
- Wednesday
6/20/2007
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- Poster
Presentation*
- On Understanding the Formation of Extrudable Pastes with Pseudoboehmite***
Authors:
Chester, Arthur W Rutgers, Piscataway, NJ US
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- 5
P-S5-04C
- Wednesday
6/20/2007
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- Poster
Presentation*
- Understanding the Effect of Halide Poisoning in CO oxidation over Au/TiO₂***
Authors:
Henaio, Juan D Northwestern University, Evanston, IL USA
Oxford, Sean M Northwestern University, Evanston, IL USA
Yang, Jeff H Northwestern University, Evanston, IL USA
Miller, Jeffrey T BP Research Center, Naperville, IL USA
Kung, Mayfair C Northwestern University, Evanston, IL USA
Kung, Harold H Northwestern University, Evanston, IL USA
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P-S5-05C
- Wednesday
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5:30 PM
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Presentation*
- EFFECT OF THERMAL AGING ON CATALYST MORPHOLOGY AND PERFORMANCE OF LEAN NOX TRAPS***
Authors:
Toops, Todd J ORNL, Knoxville, TN USA
Bunting, Bruce G ORNL, Knoxville, TN USA
Nguyen, Ke University of Tennessee, Knoxville, TN USA
Kim, Hakyong University of Tennessee, Knoxville, TN USA
Gopinath, Ajit University of Tennessee, Knoxville, TN USA
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P-S5-06C
Wednesday
6/20/2007
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*Poster
Presentation*
- SELECTIVE LEACHING DURING REJUVENATION OF SPENT CATALYSTS FROM H-OIL? PROCESS***
Authors:
Mosqueira, Lourdes Instituto Mexicano del Petroleo, Mexico City Mexico
Gómez, Sergio Universidad Autónoma Metropolitana-Iztapalapa, Mexico city Mexico
Escobar, José Instituto Mexicano del Petroleo, Mexico city Mexico
Rivera, Argelia FES Zaragoza UNAM, Mexico city Mexico
Romero, Eduardo Instituto Mexicano del Petroleo, Mexico city Mexico
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- 5
P-S5-07C
Wednesday
6/20/2007
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*Poster
Presentation*
- Deactivation of commercial Selective Catalytic Reduction (SCR) catalysts***
Authors:
Baxter, Larry L Brigham Young University, Provo/Utah USA
Guo, Xiaoyu Brigham Young University, Provo/Utah USA
Ashton, John Brigham Young University, Provo/Utah USA
Butler, Jacob Brigham Young University, Provo/Utah USA
Nackos, Aaron Brigham Young University, Provo/Utah USA
Hecker, William C. Brigham Young University, Provo/Utah USA
Bartholomew, Calvin H. Brigham Young University, Provo/Utah USA
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- 5
P-S5-08C
Wednesday
6/20/2007
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*Poster
Presentation*
- Slurries in Catalyst Manufacture: Mixing with Complex Rheology***
Authors:
Lacombe, Justin Rutgers University, Piscataway, NJ US
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- 5
P-S5-09C
Wednesday
6/20/2007
5:30 PM
*Poster
Presentation*
- Activation and Deactivation Mechanisms of Rhodium/Alumina Catalysts***
Authors:
Yang, Xiaolin BASF Catalysts LLC, Iselin/New Jersey USA
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P-S5-10C
Wednesday
6/20/2007
5:30 PM
*Poster
Presentation*
- Interaction of Sulfur with Carbides and Nitrides: Adsorption Mechanism and Sites***
Authors:
Hammoud, Maha R University of Michigan, Ann Arbor, MI USA
Thompson, Levi T University of Michigan, Ann Arbor, MI USA
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- 5
P-S5-11C
Wednesday
6/20/2007
5:30 PM
*Poster
Presentation*
- Commercial Applications of Gold Catalysts for CO Oxidation – Performance, Deactivation, Regeneration.***
Authors:
McPherson, Jason S Mintek, Gauteng South Africa
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- 5
P-S5-12C
Wednesday
6/20/2007
5:30 PM
*Poster
Presentation*
- Catalyst Deactivation in Autothermal Reforming of Natural Gas Feedstocks at Elevated Pressure***
Authors:
Fowles, Martin Johnson Matthey Catalysts, Billingham, Cleveland UK
Farnell, Peter W Johnson Matthey, Billingham, Cleveland UK
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- 5
P-S5-13C
Wednesday
6/20/2007
5:30 PM
*Poster
Presentation*
- XPS Identification of Deposited Carbon on Ni/Ce-Zr-O Catalyst***
Authors:
Chen, Xiaoyin University of Michigan, Ann Arbor/Michigan USA
Tadd, Andrew R University of Michigan, Ann Arbor/Michigan USA
Schwank, Johannes University of Michigan, Ann Arbor/Michigan USA
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- 5
P-S5-14C
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6/20/2007
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Presentation*
- Heavy Hydrocarbon Reforming Deactivation Pathways Over Nickel based Monolith Catalysts**
Authors:
Gould, Benjamin University of Michigan, Ann Arbor USA
Chen, Xiaoyin University of Michigan, Ann Arbor USA
Schwank, Johannes University of Michigan, Ann Arbor USA
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- 5
P-S5-15C
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6/20/2007
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Presentation*
- Catalyst Activity and Post-operation Analyses of Pt/TiO₂ (Rutile) Catalysts Used in the Sulfuric Acid Decomposition Reaction**
Authors:
Petkovic, Lucia M Idaho National Laboratory, Idaho Falls, ID U.S.A.
Ginosar, Daniel M Idaho National Laboratory, Idaho Falls, ID U.S.A.
Rollins, Harry W Idaho National Laboratory, Idaho Falls, ID U.S.A.
Burch, Kyle C Idaho National Laboratory, Idaho Falls, ID U.S.A.
Pinhero, Patrick J Idaho National Laboratory, Idaho Falls, ID U.S.A.
Farrell, Helen H Idaho National Laboratory, Idaho Falls, ID U.S.A.
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- 5
P-S5-17C
- Wednesday
6/20/2007
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Presentation*
- A Parametric Investigation of Impregnation and Drying of Supported Catalysts**
Authors:
Liu, Xue Rutgers University, Piscataway, NJ USA
Glasser, Benjamin Rutgers University, Piscataway, NJ USA
Khinast, Johannes Rutgers University, Piscataway, NJ USA
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- 5
P-S5-18C
- Wednesday
6/20/2007
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Presentation*
- Effect of catalyst deactivation on limonene epoxidation over PW-Amberlite**
Authors:
Barrera, Rolando Universidad de Antioquia, Medellín Colombia
Villa, Aída Luz Universidad de Antioquia, Medellín Colombia
Montes de Correa, Consuelo Universidad de Antioquia, Medellín Colombia
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- 5
P-S5-19C
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6/20/2007
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Presentation*
- Catalyst deactivation and regeneration in alkane dehydrogenation: “can’t see the wood for the trees”?**
Authors:
Jackson, S D University of Glasgow, Glasgow, Scotland UK
Rugmini, Sreekala University of Glasgow, Glasgow, Scotland UK
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- 5
P-S5-20C
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Presentation*
- Influence of contaminants in catalyst stability and durability**
Authors:
Sayyar, M H Department of Chemical Engineering, Loughborough University, Loughborough UK
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- 5
P-S5-21C
- Wednesday
6/20/2007
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Presentation*
- Experimental Deactivation Analysis of Commercial Selective Catalytic Reduction (SCR) Catalysts**
Authors:
Guo, Xiaoyu Brigham Young University, Provo/Utah USA
Baxter, Larry L Brigham Young University, Provo/Utah USA
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- 6 - Syngas Conversion - [Back to top](#)**
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P-S6-01C
- Wednesday
6/20/2007
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Presentation*
- Synthesis of iso-C₄ Hydrocarbons from CO/H₂ over CeO₂-TiO₂ Oxides**
Authors:
Zhu, Zhihui Tsinghua University, Beijing China
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6 P-S6-02C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>TPSR studies of Rh-based catalysts designed for ethanol synthesis from biomass-derived syngas</i> Authors: Egbebi, Adefemi a Louisiana State University, baton rouge, LA usa Spivey, james J Louisiana State University, Baton Rouge, LA USA View PDF File for this Abstract
6 P-S6-03C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Does the Fischer Tropsch reaction occur on the same catalytic site as the water gas shift reaction?</i> Authors: Huysen, Johan Sasol Technology, Sasolburg South Africa View PDF File for this Abstract
6 P-S6-04C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Microkinetic Model of Carbon Hydrogenation on Fe Catalyst</i> Authors: Paul, Uchenna Brigham Young Univ, Provo, Utah USA Zou, Hu Brigham Young Univ, Provo, Utah USA Bartholomew, Calvin H Brigham Young Univ, Provo, Utah USA View PDF File for this Abstract
6 P-S6-05C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Adsorption/Dissociation of CO on Polycrystalline Fe</i> Authors: Zou, Hu Brigham Young Univ, Provo, Utah USA Paul, Uchenna Brigham Young Univ, Provo, Utah USA Bartholomew, Calvin H Brigham Young Univ, Provo, Utah USA View PDF File for this Abstract
6 P-S6-06C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Fischer-Tropsch Synthesis: Is a Single Site Responsible for FTS and WGS on Iron Catalysts?</i> Authors: Luo, Mingsheng Center for Applied Energy Research, Lexington, KY USA Das, Tapan K Center for Applied Energy Research, Lexington, KY USA Bao, Shiqi Center for Applied Energy Research, Lexington, KY USA Davis, Burtron H Center for Applied Energy Research, Lexington, KY USA View PDF File for this Abstract
6 P-S6-07C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Development of a complete kinetic model for the Fischer-Tropsch Synthesis over Co/Al₂O₃ catalysts</i> Authors: Visconti, Carlo Politecnico Milano, Milan Italy Vallusova, Zuzana Politecnico Milano, Milan Italy Tronconi, Enrico Politecnico Milano, Milan Italy Lietti, Luca Politecnico Milano, Milan Italy Forzatti, Pio Politecnico Milano, Milan Italy Zennaro, Roberto ENI R&M, Milan Italy View PDF File for this Abstract
6 P-S6-08C	Wednesday 6/20/2007 5:30 PM <i>Poster Presentation</i>	<i>Effect of Potassium on Multicomponent Fe/C Catalysts for Hydrocarbons and Oxygenates from Fischer-Tropsch Synthesis</i> Authors: Ma, Wenping West Virginia University, Morgantown WV USA Kugler, Edwin L West Virginia University, Morgantown WV USA Dadyburjor, Dady B West Virginia University, Morgantown WV USA View PDF File for this Abstract
6 P-S6-09C	Wednesday 6/20/2007 5:30 PM <i>Poster</i>	<i>A transient kinetic analysis (TKA) study of methanol synthesis on a Cu/gamma-alumina catalyst employing in-situ transmission FTIR and MS detection</i> Authors: Yang, Yong Pacific N.W. National Laboratory, Richland, WA USA Disselkamp, R. S Pacific N.W. National Laboratory, Richland, WA USA

Presentation

Cameron, L. G	University of Washington, Seattle, WA USA
Jensen, Igne	University of Washington, Seattle, WA USA
Campbell, C. T	University of Washington, Seattle, WA USA
Szanyi, J.	Pacific N.W. National Laboratory, Seattle, WA USA
Peden, C.H. F	Pacific N.W. National Laboratory, Richland, WA USA

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Wednesday
6/20/2007
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Poster Presentation

Analyzing surface intermediate stoichiometry using the transient kinetic analysis (TKA) approach for methanol synthesis on a Cu/gamma-alumina catalyst

Authors:

Disselkamp, Rob	Pacific N.W. National Laboratory, Richland, WA USA
Yang, Yong	Pacific N.W. National Laboratory, Richland, WA USA
Cameron, L. G	University of Washington, Seattle, WA USA
Jensen, Igne	University of Washington, Seattle, WA USA
Campbell, C. T	University of Washington, Seattle, WA USA
Szanyi, J.	Pacific N.W. National Laboratory, Richland, WA USA

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6
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Wednesday
6/20/2007
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Poster Presentation

Upgrading Fischer-Tropsch Waxes on Anion-Modified Zirconia Catalysts

Authors:

Zhang, Yulong	University of Pittsburgh, Pittsburgh, PA USA
Zhou, Zhong	University of Pittsburgh, Pittsburgh, PA USA
Tierney, John W	University of Pittsburgh, Pittsburgh, PA USA
Wender, Irving	University of Pittsburgh, Pittsburgh, PA USA

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6
P-S6-12C

Wednesday
6/20/2007
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Poster Presentation

Effect of calcination and promotion with noble metals on the structure and catalytic performance of cobalt silica and alumina supported Fischer-Tropsch catalysts: A comparative study

Authors:

Girardon, Jean-Sébastien	Unité de catalyse et de chimie du solide, UMR 8181 CNRS, Villeneuve d'Ascq France
Khodakov, Andrei Y	Unité de catalyse et de chimie du solide, UMR 8181 CNRS, Villeneuve d'Ascq France
Chu, Wei	Department of Chemical Engineering, Sichuan University, Chegdu, Sichuan China
Chernavskii, Petr A	Department of Chemistry, Moscow State University, Moscow Russia
Griboval-Constant, Anne	Unité de catalyse et de chimie du solide, UMR 8181 CNRS, Villeneuve d'Ascq France
Gengembre, Léon	Unité de catalyse et de chimie du solide, UMR 8181 CNRS, Villeneuve d'Ascq France

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Poster Presentation

Decomposition of Dimethyldisulfide on Various W-Ni catalysts

Authors:

Ding, Lianhui	University of New Brunswick, Fredericton Canada
Zheng, Ying	University of New Brunswick, Fredericton Canada

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P-S7-02C

Wednesday
6/20/2007
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Poster Presentation

Hydrotreating catalysts prepared by salts of heteropolyacids. Hydrodesulfurization of 4,6-DMDBT in presence of nitrogen compounds

Authors:

Gutierrez-Alejandre, Aida	UNAM, D.F. Mexico
Chicas-Reyes, Angelica	UNAM, D.F. Mexico
Ramirez, Jorge	UNAM, D.F. Mexico
Fernandez-Vargas, Cesar	UNAM, D.F. Mexico

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Wednesday
6/20/2007
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Poster Presentation

DBT HDS Over Mo-P on Wide-pore Al2O3. Ni Addition Method Effect.

Authors:

ESCOBAR, JOSE	INSTITUTO MEXICANO DEL PETROLEO, MEXICO CITY MEXICO
TOLEDO, JOSE A	INSTITUTO MEXICANO DEL PETROLEO, MEXICO CITY MEXICO
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CORTES, MARIA A INSTITUTO MEXICANO DEL PETROLEO, MEXICO CITY MEXICO
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| 7
P-S7-04C | Wednesday
6/20/2007
5:30 PM | <p>Synthesis, Characterization and Evaluation of NiMo/ Al₂O₃-SiO₂ Catalysts prepared by the pH-swing method</p> <p>Authors:
Fernandez, Cesar Cesar, Mexico distrito federal
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| | <i>Poster
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P-S7-05C | Wednesday
6/20/2007
5:30 PM | <p>Effects of solvent and inhibition on hydrodesulfurization of 4,6-Dimethyldibenzothiophene over a NiMoP/Al₂O₃ catalyst</p> <p>Authors:
García-Martínez, Julio C Universidad A. Metropolitana-Iztapalalapa, Mexico, DF Mexico
Pérez-Cisneros, Eduardo S Universidad A. Metropolitana-Iztapalalapa, Mexico, DF Mexico
de los Reyes, José A Universidad A. Metropolitana-Iztapalalapa, Mexico, DF Mexico
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| | <i>Poster
Presentation</i> | |
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| 7
P-S7-06C | Wednesday
6/20/2007
5:30 PM | <p>Solvent effect in heterogeneous oxidative reactions between dibenzothiophene and hydrogen peroxide</p> <p>Authors:
Ramírez-Verduzco, Luis F Instituto Mexicano del Petróleo, Mexico, DF Mexico
Torres-García, Enelio Instituto Mexicano del Petróleo, Mexico, DF Mexico
de los Reyes, José A Universidad A. Metropolitana-Iztapalalapa, Mexico, DF Mexico
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| | <i>Poster
Presentation</i> | |
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| 7
P-S7-07C | Wednesday
6/20/2007
5:30 PM | <p>Palladium Effect Over Mo/NiMo Alumina-Titania Catalysts on the 4,6-Dimethyldibenzothiophene Hydrodesulfurization Reaction</p> <p>Authors:
Aguirre, Adriana Mexican Institute of Petroleum, México D.F México
Montoya, J. Ascención Mexcian Institute of Petroleum, México D.F México
del Angel, P. Mexican Institute of Petroleum, México D.F México
de los Reyes, J. A. Universidad Autónoma Metropolitana-Iztapalapa, México D.F México
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| 7
P-S7-08C | Wednesday
6/20/2007
5:30 PM | <p>Structural properties of Carbides and Nitrides phases supported on SBA-15 y -16 from ammine salts precursors</p> <p>Authors:
Aguillón Martínez, Edgar C Instituto Tecnológico de Cd Madero, Madero, Tamps. México
Melo Banda, José A Instituto Tecnológico de Cd. Madero, Madero, Tamps. México
Silva Rodrigo, Rebeca Instituto Tecnológico de Cd. Madero, Madero, Tapms México
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Escobar Aguilar, José Instituto Mexicano del Petróleo, México, D.F. México
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| 7
P-S7-09C | Wednesday
6/20/2007
5:30 PM | <p>Carbides and nitrides Ni-Mo phases supported on Mesoporous Al₂O₃ and MCM-41 materials from ammine salts precursors as new route of synthesis</p> <p>Authors:
Ramos Armengol, Gil j instituto tecnologico de ciudad madero, Cd. madero, Tamps Mexico
Melo Banda, Jose A instituto tecnologico de ciudad madero, cd madero, Tamps. Mexico
Ramos Galván, Claudia E instituto tecnologico de ciudad madero, cd Madero, Tamps Mexico
Dominguez Esquivel, Jose M Instituto Mexicano del Petróleo, México DF Mexico
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| 7
P-S7-10C | Wednesday
6/20/2007
5:30 PM | <p>Oxidative Desulfurization of Mexican diesel using supported vanadium based catalysts</p> <p>Authors:
Gomez-Bernal, Hilda UNAM, Mexico, D.F. Mexico
Cedeño-Caero, Luis UNAM, Mexico, D.F. Mexico
Fraustro-Cuevas, Adriana UNAM, Mexico, D.F. Mexico
Cuevas-Garcia, Rogelio UNAM, Mexico, D.F. Mexico
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Presentation</i> | |
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- 7
P-S7-11C
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6/20/2007
5:30 PM
- Poster
Presentation*
- Effect of titania loading and method of support preparation on the development of NiMo/TiO₂-SBA-15 catalysts in 4,6-DMDBT hydrodesulfurization***
- Authors:**
Amezcuca, Juan C
Lizama, Lilia Y
Klimova, Tatiana E
- UNAM, Mexico City Mexico
UNAM, Mexico City Mexico
UNAM, Mexico City Mexico
- [View PDF File for this Abstract](#)
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- 7
P-S7-12C
- Wednesday
6/20/2007
5:30 PM
- Poster
Presentation*
- An Investigation of Mo₂C/HY Zeolite Acidity for Selective Ring Opening Reactions***
- Authors:**
Liu, Xuebin
Smith, Kevin J
- The University of British Columbia, Vancouver, B.C. Canada
The University of British Columbia, Vancouver, B.C. Canada
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- 7
P-S7-13C
- Wednesday
6/20/2007
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- Poster
Presentation*
- Highly Active Deep HDS Catalysts Prepared Using Mo and W Heteropolyacids Supported on SBA-15***
- Authors:**
Lizama, Lilia Y
Klimova, Tatiana E
- UNAM, Mexico City Mexico
UNAM, Mexico City Mexico
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- 7
P-S7-14C
- Wednesday
6/20/2007
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Presentation*
- Mesoporous Al-SBA-15 as a support for NiMo sulfide catalysts for hydrotreating of gas oil***
- Authors:**
Eswaramoorthi, Iyyamperumal
Dalai, Ajay K
Vedachalam, Sundaramurthy
Adjaye, John
- University of Saskatchewan, Saskatoon Canada
University of Saskatchewan, Saskatoon Canada
University of Saskatchewan, Saskatoon Canada
University of Saskatchewan, Saskatoon Canada
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- 7
P-S7-15C
- Wednesday
6/20/2007
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Presentation*
- Synthesis of alkaline (K, Li) modified CoMo/Al₂O₃-MgO-(X) catalysts, potentially useful for selective HDS of gasoline***
- Authors:**
Solis, Dora
Cuevas, Rogelio
Ramirez, Jorge
- Universidad Autonoma del Estado de México, Toluca, Edo. Mexico México
UNICAT, UNAM, México, Distrito Federal México
UNICAT, UNAM, México Distrito Federal México
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- 7
P-S7-16C
- Wednesday
6/20/2007
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Presentation*
- Evidence of hydrogen spillover contribution to hydrogenation reactions***
- Authors:**
Yang, Hong
Chen, Honglin
Ding, Lianhui
Omotoso, Oladipo
Ring, Zbigniew
- The National Centre for Upgrading Technology, AB Canada
The National Centre for Upgrading Technology, AB Canada
The National Centre for Upgrading Technology, AB Canada
Advabced Separation Technologies, AB Canada
The National Centre for Upgrading Technology, AB Canada
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- 7
P-S7-17C
- Wednesday
6/20/2007
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Presentation*
- Hydrogenation of Styrene Catalyzed by Immobilized Mo Complexes***
- Authors:**
Pardey, Alvaro J
Manosalva, Nelson
Ortega, Marisol C
D'Ornelas, Lindora
- Universidad Central de Venezuela, Caracas/DC Venezuela
Universidad Central de Venezuela, Caracas/DC Venezuela
Universidad Central de Venezuela, Caracas Venezuela
Universidad Central de Venezuela, Caracas/DC Venezuela
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- 7
P-S7-18C
- Wednesday
6/20/2007
5:30 PM
- Poster
Presentation*
- Effect of Al and Si in Pt-supported TiO₂ on Competitive Hydrogenation of Benzene and Toluene***
- Authors:**
Perez, Gustavo
Viveros, Tomás
- UAM Iztapalapa, Mexico, D.F. Mexico
UAM Iztapalapa, Mexico, D.F. Mexico
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8
P-S8-01A Monday 6/18/2007 5:30 PM
Poster Presentation

Albemarle Unveils a Step Out Catalyst with Unsurpassed Diffusional Properties
Authors:
Bruno, Kenneth Albemarle Catalysts, Houston, TX USA
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8
P-S8-02A Monday 6/18/2007 5:30 PM
Poster Presentation

Comparing Nickel and Vanadium Passivation with FCC Catalysts in Laboratory Microactivity Studies
Authors:
Xu, Mingting BASF Catalysts LLC, Iselin, New Jersey USA
Madon, Rostam J BASF Catalysts LLC, Iselin, New Jersey USA
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8
P-S8-03A Monday 6/18/2007 5:30 PM
Poster Presentation

Selective ring opening of methylocyclopentane on bimetallic Pt-X catalysts supported on alumina
Authors:
Especel, Catherine LACCO UMR 6503, Poitiers France
Boutzeloit, Marieme LACCO UMR 6503, Poitiers France
Epron, Florence LACCO UMR 6503, Poitiers France
Marécot, Patrice LACCO UMR 6503, Poitiers France
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9 - Catalysis for Chemicals and Specialty Products - [Back to top](#)

9
P-S9-01B Tuesday 6/19/2007 5:30 PM
Poster Presentation

Hydrophilic solid acid Sn-promoted niobium oxide catalysts for epoxide hydration
Authors:
yingcheng, Li SINOPEC Shanghai Research Institute of Petrochemical Technology, Shanghai P. R. China
Weimin, Yang SINOPEC Shanghai Research Institute of Petrochemical Technology, Shanghai P. R. China
Zaiku, Xie SINOPEC Shanghai Research Institute of Petrochemical Technology, Shanghai P. R. China
Qingling, Chen SINOPEC Shanghai Research Institute of Petrochemical Technology, Shanghai P. R. China
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9
P-S9-02B Tuesday 6/19/2007 5:30 PM
Poster Presentation

Propylene epoxidation on silver: A density functional and ONIOM study
Authors:
FELLAH, FERDI M METU, ANKARA TURKEY
TURKMENOGLU, EVREN METU, ANKARA TURKEY
SENKAN, SELIM UCLA, CALIFORNIA USA
ONAL, ISIK METU, ANKARA TURKEY
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9
P-S9-03B Tuesday 6/19/2007 5:30 PM
Poster Presentation

Modified Cu/Cr Catalysts for Glycerol Conversion into 1,2-Propanediol in Aqueous Phase Hydrogenolysis
Authors:
Liu, Aiguo Sud-Chemie, Louisville KY
Wang, Xueqin Sud-Chemie, Louisville/KY USA
Luckett, Chris Sud-Chemie, Louisville USA
Turbeville, Wayne Sud-Chemie, Louisville USA
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9
P-S9-04B Tuesday 6/19/2007 5:30 PM
Poster Presentation

Liquid Phase Hydrogenation of Citral with Pt and PtSn Supported Catalysts to Obtain Geraniol, Nerol and Citrollelol
Authors:
Barrales, Cesar Universidad Autonoma Metropolitana, Mexico D. F. Mexico
Viveros, Tomas Universidad Autonoma Metropolitana, Mexico D. F. Mexico
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9
P-S9-05B Tuesday 6/19/2007 5:30 PM

Niobium-induced synthesis of SBA-15 type nioboorganosilicates -oxidation catalyst
Authors:
Nowak, Izabela Adam Mickiewicz University, Faculty of Chemistry, Poznan Poland

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Walczak, Katarzyna Adam Mickiewicz University, Faculty of Chemistry, Poznan Poland
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9
P-S9-06B

Tuesday
6/19/2007
5:30 PM

Effect of peripheral substituents in the catalytic activity of iron phthalocyanines for the allylic oxidation of α -pinene and limonene

Authors:
González, Lina M Universidad de Antioquia, Medellin/Antioquia Colombia
Montes de C., Consuelo Universidad de Antioquia, Medellin/Antioquia Colombia
Villa de P., Aída L Universidad de Antioquia, Medellin/Antioquia Colombia
Sorokin, Alexander B Institut de Recherches sur la Catalyse, Villeurbanne France

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9
P-S9-07B

Tuesday
6/19/2007
5:30 PM

The liquid-phase oxidation of cyclohexanone with oxygen, catalysed by Keggin -type polyoxometalates. A cleaner alternative to the current industrial process for adipic acid synthesis.

Authors:
Frattini, Alessandra Chimica Industriale, Bologna Italy
Cavani, Fabrizio Chimica Industriale, Bologna Italy

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9
P-S9-08B

Tuesday
6/19/2007
5:30 PM

A First Principles Analysis of the Ensemble Effects in the Synthesis of Vinyl Acetate over Pd/Au Substrates

Authors:
Plaisance, Craig P University of Virginia, Charlottesville, VA US
Neurock, Matthew University of Virginia, Charlottesville, VA US

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9
P-S9-09B

Tuesday
6/19/2007
5:30 PM

Microwave-Activated Oxidative Dehydrogenation of Ethane over Oxide Catalysts

Authors:
Sinev, Iliia M Zelinsky Institute of Organic Chemistry, Moscow Russia

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9
P-S9-10B

Tuesday
6/19/2007
5:30 PM

ACTIVITY AND SELECTIVITY OF Pt-/SiO₂, Pt/SiO₂-ZrO₂ AND Pt/SiO₂-TiO₂ FOR THE LIQUID PHASE HYDROGENATION OF CITRAL

Authors:
RODRÍGUEZ, AVENDAÑO R UAM-IZTAPALAPA, DISTRITO FEDERAL MEXICO
VIVEROS, GARCIA T UAM-IZTAPALAPA, DISTRITO FEDERAL MEXICO

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9
P-S9-11B

Tuesday
6/19/2007
5:30 PM

Substituted Phenol to Substituted Cyclohexanone: Influence of Gas / Liquid Mass Transfer Rates on Selectivity

Authors:
Allgeier, Alan M Amgen Inc., Thousand Oaks, CA USA
Crockett, Richard Amgen Inc., Thousand Oaks, CA USA
Wang, Xin Amgen Inc., Thousand Oaks, CA USA

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9
P-S9-12B

Tuesday
6/19/2007
5:30 PM

Hydrogenation of citral over Ir/TiO₂/SiO₂ catalyst. Kinetic study.

Authors:
Rojas, Hugo Universidad Pedagógica y Tecnológica de Colombia, Tunja Colombia
Borda, Gloria M Universidad Pedagógica y Tecnológica de Colombia, Tunja Colombia
Martínez, José J Universidad Nacional de Colombia, Bogotá Colombia
Valencia, Jesus S Universidad Nacional de Colombia, Bogotá Colombia
Reyes, Patricio Universidad de Concepción, Concepción Chile

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9
P-S9-13B

Tuesday
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Structure-Reactivity Relationship for Alumina Supported Nickel Oxide Catalysts

Authors:
Patcas, Florian University of South Carolina, Columbia/SC USA

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| 9
P-S9-14B | Tuesday
6/19/2007
5:30 PM | <i>Novel Catalysts for the Selective Hydration of Ethylene Oxide (EO) to Ethylene Glycol (MEG)</i>
Authors:
van Hal, Jaap W
Ledford, John S
Zhang, Xiankuan
View PDF File for this Abstract | SABIC Americas, Sugar Land TX USA
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| 9
P-S9-15B | Tuesday
6/19/2007
5:30 PM | <i>Preparation, Properties and Selected Applications of Catalyst Supports</i>
Authors:
Szymanski, Thomas
View PDF File for this Abstract | Saint-Gobain NorPro, Stow, OH USA |
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| 9
P-S9-16B | Tuesday
6/19/2007
5:30 PM | <i>Inverse temperature effect on cellulose decrystallization and hydrolysis</i>
Authors:
Zhao, Haibo
Holladay, John
wang, yong
White, J. M.
Zhang, Z. Conrad
View PDF File for this Abstract | Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland /WA USA
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Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland /WA USA |
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| 9
P-S9-17B | Tuesday
6/19/2007
5:30 PM | <i>Catalytic Cracking of C4-olefin to Produce Propylene over H-ZSM-5</i>
Authors:
Teng, Jiawei
View PDF File for this Abstract | SINOPEC SRIPT, Shanghai China |
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| 9
P-S9-18B | Tuesday
6/19/2007
5:30 PM | <i>VPO calcination: What are the optimum conditions?</i>
Authors:
Shekari, Ali
Hansen, Kamilla M
Fankem, Calvin
Tzakova, Tania
Patience, Gregory S
View PDF File for this Abstract | Département de Génie Chimique, Ecole Polytechnique de Montréal, Montréal, Quebec Canada
Département de Génie Chimique, Ecole Polytechnique de Montréal, Montréal, Quebec Canada
Département de Génie Chimique, Ecole Polytechnique de Montréal, Montréal, Quebec Canada
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| 9
P-S9-19B | Tuesday
6/19/2007
5:30 PM | <i>Nopol synthesis over Sn-MCM-41. The effect of solvent and Sn precursor</i>
Authors:
Alarcón, Edwin A
Villa, Aída L
Montes de Correa, Consuelo
View PDF File for this Abstract | Universidad de Antioquia, Medellín/Antioquia Colombia
Universidad de Antioquia, Medellín/Antioquia Colombia
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| 9
P-S9-20B | Tuesday
6/19/2007
5:30 PM | <i>Styrene partial oxidation over oxidized and reduced Co-ZSM-5</i>
Authors:
Pierella, Liliana B
Saux, Clara
Caglieri, Silvana C
View PDF File for this Abstract | CITeQ - FRC-UTN, Córdoba Argentina
CITeQ-FRC-UTN, Córdoba Argentina
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| 9
P-S9-21B | Tuesday
6/19/2007
5:30 PM | <i>Development of the next generation vinyl acetate catalyst</i>
Authors:
Mentz, Ronald T
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- 9
P-S9-22B
- Tuesday
6/19/2007
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- Improved Catalyst for Synthesis of Secondary Amines by Reductive Alkylation*
Authors:
Arunajatesan, Venu
Engmann, Sarah
Chen, Baoshu
[View PDF File for this Abstract](#)
- Degussa Corporation, Calvert City, KY USA
Degussa Corporation, Calvert City, KY USA
Degussa AG, Hanau-Wolfgang Germany
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- 9
P-S9-23B
- Tuesday
6/19/2007
5:30 PM
- Stereoselective epoxidation of R-(+)-limonene over Mn(III) salen complexes immobilized in Al-MCM-41*
Authors:
Cubillos, Jairo A
Vargas, María T
Reyes, Juliana
Villa, Aída L
Montes, Consuelo
[View PDF File for this Abstract](#)
- Universidad de Antioquia, Medellín Colombia
Universidad de Antioquia, Medellín Colombia
Univesidad de Antioquia, Medellín Colombia
Universidad de Antioquia, Medellín Colombia
Universidad de Antioquia, Medellín Colombia
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- 9
P-S9-24B
- Tuesday
6/19/2007
5:30 PM
- A Green Technological Route for Catalytic Hydrogenation of Nitrile Butadiene Rubber in a Latex Form*
Authors:
Wei, Zhenli
Pan, Qinmin
Rempel, Garry L
[View PDF File for this Abstract](#)
- University of Waterloo, Waterloo Canada
University of Waterloo, Waterloo Canada
University of Waterloo, Waterloo Canada
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- 9
P-S9-25B
- Tuesday
6/19/2007
5:30 PM
- The Role of Carbon Deposition in the Hydrogenation of Pentenenitriles*
Authors:
Gladden, Lynn F
McGregor, James
Jackson, S D
Milroy, David
Canning, Arran S
[View PDF File for this Abstract](#)
- University of Cambridge, Cambridge UK
University of Cambridge, Cambridge UK
University of Glasgow, Glasgow UK
University of Glasgow, Glasgow UK
University of Glasgow, Glasgow UK
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- 9
P-S9-27B
- Tuesday
6/19/2007
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- Preparation, Characterization and Catalytic Properties of Bimetallic NiCoB Nanoalloy Catalysts for Hydrogenation of p-chloronitrobenzene*
Authors:
Chen, Yu-Wen
[View PDF File for this Abstract](#)
- Department of Chemical and Materials Engineering, National Central University, Chungli Taiwan
- Poster
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- 9
P-S9-28B
- Tuesday
6/19/2007
5:30 PM
- Dependence of quenching process on Ti³⁺ defect sites and photocatalytic activity of solvothermal-derived nano titanium (IV) oxide*
Authors:
Praserthdam, Piyasan
[View PDF File for this Abstract](#)
- Chulalongkorn University, Bangkok Thailand
- Poster
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- 9
P-S9-29B
- Tuesday
6/19/2007
5:30 PM
- New Catalysts for the Hydrogenolysis of Glycerol and Sugar Alcohols*
Authors:
Holladay, Johnathan E
white, James F
Frye, John G
Zacher, Alan H
Werpy, Todd A
[View PDF File for this Abstract](#)
- Pacific Northwest National Lab, Richland/WA USA
Pacific Northwest National Lab, Richland/WA USA
Pacific Northwest National Lab, Richland/WA USA
Pacific Northwest National Lab, Richland/WA USA
Pacific Northwest National Lab, Richland/WA USA
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- 9
P-S9-30C
- Wednesday
6/20/2007
- Structure of platinum-tin on carbon nanofibers related to its performance for cinnamaldehyde hydrogenation*
Authors:

5:30 PM de Jong, Krijn P. Inorganic Chemistry and Catalysis, Utrecht The Netherlands
 Bitter, Johannes H. Inorganic Chemistry and Catalysis, Utrecht The Netherlands
 Plomp, Arie J. Inorganic Chemistry and Catalysis, Utrecht The Netherlands
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9 P-S9-31C Wednesday 6/20/2007 5:30 PM
Poster Presentation
Effect of the temperature of calcination in the VPO
Authors:
 Arias Pérez, Salvador Instituto Tecnológico de Ciudad Madero, Ciudad Madero México
 Robles Andrade, Sergio Instituto Tecnológico de Ciudad Madero, Ciudad Madero México
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 Sandoval Robles, Guillermo Instituto Tecnológico de Ciudad Madero, Ciudad Madero México
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9 P-S9-32C Wednesday 6/20/2007 5:30 PM
Poster Presentation
Direct Hydrothermal Synthesis of Mesoporous Sn-SBA-15 and Catalytic Application for the Synthesis of Nopol by Prins Condensation
Authors:
 Shah, Pallavi P National Chemical laboratory, Pune India
 Ramaswamy, Veda National Chemical laboratory, Pune India
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9 P-S9-33C Wednesday 6/20/2007 5:30 PM
Poster Presentation
Reactions of Alcohols over H+/ZSM-5
Authors:
 Gujar, Amit C Mississippi State University, Mississippi USA
 Guda, Vamshi Krishna Mississippi State University, Mississippi USA
 Blaylock, Emily A Mississippi State University, Mississippi USA
 Yan, Qiangu Mississippi State University, Mississippi USA
 Toghiani, Hossein Mississippi State University, Mississippi USA
 White, Mark G Mississippi State University, Mississippi USA
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9 P-S9-34C Wednesday 6/20/2007 5:30 PM
Poster Presentation
HYDROGENATION OF GLUCOSE TO SORBITOL OVER NANOPARTICLE Ni/Al₂O₃ CATALYSTS
Authors:
 Subramani, Velu RTI International, RTP, NC 27709 USA
 Gangwal, Santosh K RTI International, RTP, NC 27709 USA
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9 P-S9-35C Wednesday 6/20/2007 5:30 PM
Poster Presentation
Active Catalysts for Production of Hydroxylamine in the HPO Process
Authors:
 Blanton, Jaime R Degussa Corporation, Calvert City/KY USA
 Hara, Takuma Degussa Japan, Inashiki-gun/Ibaraki Japan
 Moebus, Konrad Degussa AG, Hanau Germany
 Chen, Baoshu Degussa AG, Hanau Germany
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9 P-S9-36C Wednesday 6/20/2007 5:30 PM
Poster Presentation
A Density Functional Study of the Structures and Energies of Vanadium Oxide Clusters on a (001) Anatase Support
Authors:
 Zygmunt, Stan A Valparaiso University, Valparaiso, IN USA
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9 P-S9-37C Wednesday 6/20/2007 5:30 PM
Poster Presentation
OXIDATIVE DEHYDROGENATION OF n-BUTANE OVER Cr₂O₃? -Al₂O₃ AND Cr₂O₃/SiO₂ CATALYSTS
Authors:
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 Luu, Cam-Loc Institute of Chemical Technology, HoChiMinh Vietnam

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- Wednesday
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Presentation*
- Stereoselective epoxidation of R-(+)-limonene over Mn(III) salen complexes immobilized in Al-MCM-41**
- Authors:**
Cubillos, Jairo A Universidad de Antioquia, Medellín Colombia
Vargas, María T Universidad de Antioquia, Medellín Colombia
Reyes, Juliana Universidad de Antioquia, Medellín Colombia
Villa, Aída L Universidad de Antioquia, Medellín Colombia
Montes, Consuelo Universidad de Antioquia, Medellín Colombia
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- 9
P-S9-39C
- Wednesday
6/20/2007
5:30 PM
- Poster
Presentation*
- New Data About Well Known Houdry Process Paraffin Dehydrogenation**
- Authors:**
Fridman, Vladimir Z Sud-Chemie Inc, Louisville, KY USA
Brock, Shelia Sud-Chemie Inc, Louisville, KY USA
Urbancic, Michael Sud-Chemie Inc, Louisville, KY USA
- [View PDF File for this Abstract](#)
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- 9
P-S9-40C
- Wednesday
6/20/2007
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- Poster
Presentation*
- Tailoring supported Co catalysts for the selective hydrogenation of citral**
- Authors:**
KOUACHI, KAHINA Faculté des Sciences et Vie, Département des Troncs Communs, Université de Bejaia, Bejaia ALGERIA
LAFAYE, GWENDOLINE Université de Poitiers, Laboratoire de Catalyse en Chimie Organique, UMR 6503, Poitiers FRANCE
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CHERIFI, OUIZA Laboratoire de Chimie de Gaz Naturel, Faculté de Chimie d'Alger, USTHB, Alger ALGERIA
MARECOT, PATRICE Université de Poitiers, Laboratoire de Catalyse en Chimie Organique, UMR 6503, Poitiers FRANCE
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Presentation*
- Effect of additives on vanadia-alumina composite aerogels for propane ammoxidation**
- Authors:**
Suh, Dong Jin Korea Institute of Science and Technology, Seoul Korea
Choi, Jinsoon Korea Institute of Science and Technology, Seoul Korea
Park, Tae-Jin Korea Institute of Science and Technology, Seoul Korea
Shin, Chee Burm Ajou University, Suwon, Kyunggi Korea
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6/20/2007
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- Poster
Presentation*
- Cyclotrimerization of Acetylene to Benzene on Au-Pd**
- Authors:**
Kumar, Deeraaj Texas A&M University, College Station, TX USA
Gath, Kerrie K Texas A&M University, College Station, TX USA
Wei, Tao Texas A&M University, College Station, TX USA
Chen, Mingshu Texas A&M University, College Station, TX USA
Goodman, D. Wayne Texas A&M University, College Station, TX USA
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- Wednesday
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- Poster
Presentation*
- Performances of Noble Metal Catalysts in Acetonitrile Hydrogenation**
- Authors:**
La Fontaine, Camille Laboratoire de Catalyse en Chimie Organique, Poitiers France
Pirault-Roy, Laurence Laboratoire de Catalyse en Chimie Organique, Poitiers France
Kappenstein, Charles Laboratoire de Catalyse en Chimie Organique, Poitiers France
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- 9
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Presentation*
- Application of Niobic Acid Catalysts Towards the One-Step Synthesis of Methyl Isobutyl Ketone (MIBK) from Acetone and Hydrogen**
- Authors:**
O'Keefe, William K The University of Waterloo, Waterloo, Ontario Canada

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Ng, Flora T
Rempel, Garry L

The University of Waterloo, Waterloo, Ontario Canada
The University of Waterloo, Waterloo Ontario

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9
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Wednesday
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5:30 PM

Synthesis and Catalytic Behavior of Mo-V-(Te-Nb)-O Catalysts Possessing M1 and M2 Phase Structures
Authors:
Korovchenko, Pavel
Gulians, Vadim

University of Cincinnati, Cincinnati / OH USA
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9
P-S9-46C

Wednesday
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Hybrid Catalysts for the Thermo-Catalytic Cracking Process: effect of the hydrogen spillover species of the co-catalyst on the product selectivities and on-stream stability
Authors:
Le Van Mao, Raymond
Vu, N.T.
Lu, Lin
Al-Yassir, N.

Concordia University, Montreal Canada
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9
P-S9-47C

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Preparation of Immobilized Co-Ph3PO/PDMS/SiO2 Catalyst and Its Catalytic performance in Hydroformylation of Mixed Octenes
Authors:
Peng, Qingrong

Tsinghua University, Beijing China

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9
P-S9-48C

Wednesday
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Synthesis of Diaminodiphenylmethane (DADPM) and its Higher Homologues using Delaminated Zeolites
Authors:
Mitchell, Chris
Corma, Avelino

Huntsman Polyurethanes, Everberg Belgium
Instituto de Tecnología Química, Valencia Spain

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9
P-S9-49C

Wednesday
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Liquid Phase Hydrogenation of Disulfides on Pd Catalyst
Authors:
McLaughlin, Leanne M
Hardacre, Chris

Queen's University Belfast, Belfast N. Ireland
Queen's University Belfast, Belfast N. Ireland

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9
P-S9-51C

Wednesday
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Immobilized Catalysts for Asymmetric Hydrogenation
Authors:
Liu, Changkun
Zhou, Bing

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Headwaters Nanokinetix, Lawrenceville, NJ08648 USA

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10 - Homogeneous Catalysis - [Back to top](#)

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Catalytic Hydrogenation of Grafted Natural Rubber in the Presence of OsHCl(CO)(O2)(PCy3)2
Authors:
Kongparakul, Suwadee
Prasassarakich, Pattarapan
Rempel, Garry L

Chulalongkorn University, Bangkok Thailand
Chulalongkorn University, Bangkok Thailand
University of Waterloo, Waterloo Canada

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10
P-S10-02B

Tuesday
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Kinetic Analysis of Liquid Phase Methane Oxidation
Authors:
Chen, Wensheng
Brandvold, Timothy A
Bricker, Maureen L

UOP, Des Plaines/IL USA
UOP, Des Plaines/IL USA
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Kocal , Joseph A UOP, Des Plaines/IL USA
 Popp, Kristoffer UOP, Des Plaines/IL USA
 Greenlay, Nanette UOP, Des Plaines/IL USA
 Bare , Simon UOP, Des Plaines USA
 Walenga, Joel T UOP, Des Plaines/IL USA
 Yang, Susan UOP, Des Plaines/IL USA

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10
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Poster
Presentation

Solvent cages of ionic liquid: structure and effect on catalysis

Authors:

Sievers, Carsten TU München, Garching Germany
 Knapp, Richard TU München, Garching Germany
 Jimenez, Oriol TU München, Garching Germany
 Müller, Thomas E TU München, Garching Germany
 Lercher, Johannes A TU München, Garching Germany

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10
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Poster
Presentation

Computational and Experimental Studies of Olefin Epoxidation by Hydrogen Peroxide Catalyzed by [gamma-(SiO4)W10O32H4]4-

Authors:

Hill, Craig L Emory University, Atlanta USA
 Geletii, Yurii V Emory University, Atlanta USA
 Hilleshime, Daniel Emory University, Atlanta USA
 Morokuma, Keiji Emory University, Atlanta USA
 Musaev, Djamaladdin G Emory University, Atlanta USA
 Prabhakar , Rajeev Emory University, Atlanta USA

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Presentation

o-Chlorophenol Biodegradation by the Brachybacterium Rhamnosum

Authors:

Wang, Leo Qiang Tianjin University of Science and Technology, Tianjin China
 Ma, Pei Sheng Tianjin University, Tianjin China
 Wang, Jianing Biology Research Institute, Shandong Academy of Science, Shandong China

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10
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Poster
Presentation

Epoxidation of Alkenes Catalyzed by Cobalt(II) calix[4]pyrrole

Authors:

Chavasiri, Warinthorn Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok Thailand
 Buranaprasertsuk, Pongchart Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok Thailand
 Tangsakol, Yupa Program of Petrochemistry and Polymer Science, Faculty of Science, Chulalongkorn University, Bangkok Thailand

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10
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Poster
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Chiral Diphosphine Ligands Based on Camphor: Synthesis, Structural Futures and Catalytic Applications

Authors:

Kadyrov, Renat Degussa AG, Hanau-Wolfgang Germany

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P-S10-08B

Tuesday
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cataCXium NEW HIGHLY EFFICIENT LIGANDS FOR C-X-COUPLING REACTIONS

Authors:

Kadyrov, Renat Degussa AG, Hanau Germany

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10
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Tuesday
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Synthesis, characterization and study of vanadyl tetradentate Schiff base complexes as catalyst for C-H bond activation of olefins with tert-butylhydroperoxide

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Presentation**Authors:**

Rayati, Saeed

Zanjan University, Zanjan Iran

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P-S11-01C
Wednesday
6/20/2007
5:30 PMPoster
Presentation***FCC Gasoline Sulfur Reduction additives: mechanism and active sites.*****Authors:**

Can, Fabien

Univ. of Caen, Caen France

Travert, Arnaud

Univ. of Caen, Caen France

Gilson, Jean-Pierre

Univ. of Caen, Caen France

Maugé, Françoise

Univ. of Caen, Caen France

Hu, Ruizhong

Grace Davison, Columbia, MD USA

Wormsbecher, Richard F

Grace Davison, Columbia, MD USA

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Presentation***Theoretical Description of Molybdena Based Catalysts; DFT Cluster Model Study.*****Authors:**

Tokarz-Sobieraj, Renata Institute of Catalysis and Surface Chemistry PAS, 30-239 Krakow Poland

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Presentation***Hard acidity and structural constraints in catalysts based on MCM-41*****Authors:**

Cano, Leopoldo

UAM-A, Mexico, DF Mexico

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P-S11-04C
Wednesday
6/20/2007
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Presentation***The Effect of Lanthanum on the Acid-base Properties of Al₂O₃ as Support for Catalytic Reforming Catalysts*****Authors:**

Viveros, Tomás Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

Contreras, Ignacio Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

[View PDF File for this Abstract](#)11
P-S11-05C
Wednesday
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Presentation***Synthesis of Pseudoionone by Aldol Condensation of Citral and Acetone on MgAlLa Catalysts.*****Authors:**

Santiago, Smid Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

Martin, Nancy Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

Cruz, Jesús Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

Viveros, Tomas Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

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Presentation***The Effect of Lanthanum on the Acid-base Properties of Al₂O₃ as Support for Catalytic Reforming*****Authors:**

Contreras, Ignacio Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

Viveros, Tomás Universidad Autónoma Metropolitana-Iztapalapa, México, D.F. México

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P-S11-07C
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Presentation***Sulfated Zirconia in SBA-15 Structures with Brønsted Acidity as Observed by ¹H MAS NMR Spectroscopy*****Authors:**

Degirmenci, Volkan

Middle East Technical University, Ankara Turkey

Erdem, Oezlen F

University of Leipzig, Leipzig Germany

Yilmaz, Aysen

Middle East Technical University, Ankara Turkey

Michel, Dieter

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Uner, Deniz

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Presentation*
- Synthesis, characterization and catalytic activity of zirconia promoted with tungstophosphoric acid**
Authors:
Hernández Enríquez, Juan Manuel Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México
Cortez Lajas, Luz Aracely Instituto Tecnológico de Ciudad Madero, Ciudad Madero, Tamaulipas México
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Presentation*
- Effects of Composition on the Reactivity of Protons in Polyoxometalate Clusters**
Authors:
Macht, Josef UC Berkeley, Berkeley/CA USA
Cindy , Yin UC Berkeley, Berkeley/CA USA
Janik, Michael J Pennsylvania State University, University Park/PA USA
Neurock, Matthew University of Virginia, Charlottesville/VA USA
Iglesia, Enrique UC Berkeley, Berkeley/CA USA
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P-S11-10C
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Presentation*
- Nature of Active Sites in MgO catalysts for the Synthesis of Flavanone**
Authors:
Cortes-Concepcion, Jose A University of South Carolina, Columbia, South Carolina USA
Liu, Zheng University of South Carolina, Columbia, South Carolina USA
Patcas, Florian University of South Carolina, Columbia, South Carolina USA
Amiridis, Michael D University of South Carolina, Columbia, South Carolina USA
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Presentation*
- Acid-Base Cooperativity in Functionalized Mesoporous Silica**
Authors:
Hruby, Sarah L Iowa State University, Ames, IA USA
Shanks, Brent H Iowa State University, Ames, IA USA
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Presentation*
- Kinetics of Tungstated Zirconia Catalyzed Transesterification and Esterification for Biodiesel Synthesis.**
Authors:
Suwannakarn, Kaewta Clemson University, Clemson/ SC USA
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P-S11-13C
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Presentation*
- Understanding Acid-Metal Balance in Paraffin Isomerization Using Multi-component Model Compound Probe Reactions**
Authors:
Zhang, Lei ExxonMobil Research and Engineering Co, Annandale, NJ USA
Ames, Warren B ExxonMobil Research & Engineering Co., Annandale, NJ USA
McVicker, Gary B ExxonMobil Research & Engineering Co., Annandale, NJ USA
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Presentation*
- Destructive adsorption of chlorinated hydrocarbons over alkaline earth metal oxides: Linking basicity and Lewis acidity to catalyst performances**
Authors:
Weckhuysen, Bert M Utrecht University, Utrecht the Netherlands
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- 11
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Presentation*
- Alcohol model reaction networks for basicity characterization**
Authors:
Petitjean, Hugo Université Paris VI, Paris France
Roy, Nicolas Université Paris VI, Paris France
Bazin, Philippe ENSICAEN, Caen France
Chizallet, Céline Université Paris VI, Paris France

Costentin, Guylène
 Lauron-Pernot, Helene
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Université Paris VI, Paris France
 Université Paris VI, Paris France

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 Presentation

Strong base catalysts for fine chemical synthesis: relating reaction energetics to base strength.
Authors:
 Jackson, S D
 Canning, Arran S
 McLeod, Eilidh
 Parker, Gemma P

University of Glasgow, Glasgow, Scotland UK
 University of Glasgow, Glasgow, Scotland UK
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 Presentation

Highly selective synthesis of p-cresol by gas-phase alkylation of phenol with methanol on solid acids
Authors:
 Sad, Maria E
 Padro, Cristina L

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 INCAPE, Santa Fe Argentina

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11
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 Presentation

Transesterification of vegetable oil to biodiesel over MgO-functionalized mesoporous catalysts
Authors:
 Li, Eugena W
 Rudolph, Victor

University of Queensland, St. Lucia, QLD Australia
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Influence Of Sulfur And Thermal Aging On Mechanisms Of Reforming Catalyst Deactivation
Authors:
 Weissman, Jeffrey G
 Tan, Eric C
 Chen, Laiyuan
 Fisher, Galen B
 Rahmoeller, Ken M
 DiMaggio, Craig L
 Wadu-Mesthrige, Kapila
 Kirwan, John E

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 Delphi, Shelby Township, MI USA
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 Delphi, Shelby Township, MI USA
 Delphi, Shelby Township, MI USA

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12
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Selective CO Removal in a Hydrogen-Rich Stream over CuO-CeO₂ and Ni/YSZ
Authors:
 Yie, Jae Eui
 Ko, Eun-Yong
 Kim, Yoon Ha
 Lee, Hyun Chul
 Lee, Kang Hee
 Kim, Soonho
 PARK, Eun Duck

Ajou University, Suwon KOREA
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 SAIT, Suwon KOREA
 SAIT, Suwon KOREA
 SAIT, Suwon KOREA
 Ajou University, Suwon KOREA

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12
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Low temperature steam reforming of ethanol for hydrogen production over Rh/CeXZr1-XO₂ catalysts
Authors:
 Olvera, Oscar G
 Díaz de León, Noé
 de los Reyes, José A
 Montoya, José A

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 Universidad A. Metropolitana-Iztapalalapa, Mexico, DF Mexico
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12
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Hydrogen production from partial oxidation of ethanol over Rh catalysts
Authors:

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Mattos, Lisiane V Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
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 Vasconcelos, Sônia M Universidade Federal do Rio de Janeiro/NUCAT/PEQ/COPPE, Rio de Janeiro Brazil
 Borges, Luiz E Instituto Militar de Engenharia, Rio de Janeiro Brazil
 Noronha, Fábio B Instituto Nacional de Tecnologia, Rio de Janeiro Brazil
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12
 P-S12-05A Monday
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Gold nanoparticles supported on Al₂O₃, SiO₂, TiO₂ and CeO₂ as catalysts for the WGS reaction.
Authors:
 Zanella, Rodolfo UNAM, México/DF México
 Díaz, Gabriela UNAM, México/DF México
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12
 P-S12-06A Monday
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Water Gas Shift Catalysts for Clean Hydrogen from Coal
Authors:
 Radhakrishnan, Rakesh United Technologies Research Center, East Hartford, CT USA
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12
 P-S12-07A Monday
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Diesel Desulfurization For High Temperature Fuel Cells
Authors:
 Katikaneni, Sai P FuelCell Energy, Danbury USA
 Hunt, Jennifer FuelCell Energy, Danbury USA
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12
 P-S12-08A Monday
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Hydrogen production by Oxidative Steam Reforming of Methanol over Cu/CeO₂-ZrO₂ catalysts.
Authors:
 Aguila, Ma. Instituto Nacional de Investigaciones Nucleares, México-Toluca S/N La Marquesa,
 Magdalena Ocoyoaca México
 Pérez Hernández, Raúl Instituto Nacional de Investigaciones Nucleares, México-Toluca S/N La Marquesa,
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12
 P-S12-09A Monday
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Methanol Steam Reforming on Pd/ZnO Catalyst
Authors:
 Dagle, Robert A Pacific Northwest National Laboratory, Richland , WA USA
 Wang, Yong Pacific Northwest National Laboratory, Richland, WA USA
 Platon, Alex Pacific Northwest National Laboratory, Richland, WA USA
 Chin, Ya-Huei Pacific Northwest National Laboratory, Richland, WA USA
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12
 P-S12-10A Monday
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Support effects on the performance of Pt/CeO₂ and Pt/Al₂O₃ catalysts for the dry reforming of methane.
Authors:
 Díaz, Gabriela UNAM, México/DF México
 González, Francisco UNAM, México/DF México
 Gómez-Cortés, Antonio UNAM, México/DF México
 Arenas-Alatorre, Jesús UNAM, México/DF México
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12
 P-S12-11A Monday
 6/18/2007
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Ethanol Steam Reforming over a Ni/Mg-Al Mixed Oxide Catalyst
Authors:
 Coleman, Luke J University of Waterloo, Waterloo Canada
 Croiset, Eric University of Waterloo, Waterloo Canada
 Epling, William University of Waterloo, Waterloo Canada
 Hudgins, Robert R University of Waterloo, Waterloo Canada
 Silveston, Peter L University of Waterloo, Waterloo Canada

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12 P-S12-12A	Monday 6/18/2007 5:30 PM	<i>Cu/CeO₂/AIPILC nanocomposites in preferential oxidation of CO: Effect of method of preparation on the catalytic activity</i>
	<i>Poster Presentation</i>	Authors: Ramaswamy, Veda Jagtap, Neelam B Malwadkar, Sachin Murugan, B Chilikuri, Satyanarayana V
		National Chemical Laboratory, Pune India National Chemical Laboratory, Pune India National Chemical Laboratory, Pune India University of Pune , Pune India National Chemical Laboratory, Pune India
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12 P-S12-13A	Monday 6/18/2007 5:30 PM	<i>Catalysis of Nuvera On-Board Fuel Processor for Fuel Cell Vehicles</i>
	<i>Poster Presentation</i>	Authors: Shi, Yanlong van Plet, John Ruffo, Michael Zhao, Jian L Bowers, Brian Cross, James
		Nuvera Fuel Cells, Cambridge, MA USA Nuvera Fuel Cells, Cambridge, MA USA Nuvera Fuel Cells, Cambridge, MA USA Nuvera Fuel Cells, Cambridge, MA USA Nuvera Fuel Cells, Cambridge, MA USA Nuvera Fuel Cells, Cambridge, MA USA
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12 P-S12-14A	Monday 6/18/2007 5:30 PM	<i>Hydrogen-storage properties of a Mg-based hydrotalcite prepared by Ni coprecipitation</i>
	<i>Poster Presentation</i>	Authors: Zeifert, Beatriz
		INSTITUTO POLITECNICO NACIONAL, México, D. F. MEXICO
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12 P-S12-15A	Monday 6/18/2007 5:30 PM	<i>Novel Catalysts for the Production of CO_x-free H₂ and Carbon Nanotubes by Non-Oxidative Dehydrogenation of Methane</i>
	<i>Poster Presentation</i>	Authors: Shah, Naresh Huggins, Frank E Huffman, Gerald P Shen, Wenqin
		University of Kentucky, Lexington, KY USA University of Kentucky, lexington, KY USA University of Kentucky, Lexington, KY USA University of Kentucky, Lexington, KY USA
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12 P-S12-16A	Monday 6/18/2007 5:30 PM	<i>Catalytic Partial Oxidation of n-Tetradecane on Rh and Sr Substituted Pyrochlore Catalysts</i>
	<i>Poster Presentation</i>	Authors: Haynes, Daniel J Berry, David A Shekhawat, Dushyant Gardner, Todd H Spivey, James J
		Louisiana State University, Baton Rouge, LA US National Energy Technology Lab, Morgantown, WV US National Energy Technology Lab, Morgantown, WV US National Energy Technology Lab, Morgantown, WV US Louisiana State University, Baton Rouge, LA US
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12 P-S12-17A	Monday 6/18/2007 5:30 PM	<i>Surface Segregation in a PdCu Alloy Hydrogen Separation Membrane</i>
	<i>Poster Presentation</i>	Authors: Miller, James B Matranga, Christopher Gellman, Andrew J
		Carnegie Mellon University, Pittsburgh, PA USA DOE-NETL, Pittsburgh, PA USA Carnegie Mellon University, Pittsburgh, PA USA
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12 P-S12-18A	Monday 6/18/2007 5:30 PM	<i>Characterization of Bimetallic Pd-Cu/ZnO/ZrO₂ Catalyst Hydrogen Production by Methanol Partial Oxidation</i>
	<i>Poster Presentation</i>	Authors: Wolf, Eduardo E Schuyten, Stephen J Kropf, Jeremy A Miller, Jeffrey T
		University of Notre Dame, Notre Dame, Indiana USA University of Notre Dame, Notre Dame, Indiana USA Chemical Engineering Div. Argonne National Lab, Argonne, Illinois USA BP R&D Naperville Complex, Naperville, Illinois USA

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<i>Poster
Presentation</i> | <i>PURE HYDROGEN PRODUCTION FROM SYNGAS BY STEAM-IRON PROCESS USING NANOPARTICLE IRON CATALYST</i>
Authors:
Subramani, Velu
Gangwal, Santosh K
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<i>Poster
Presentation</i> | <i>Catalytic Partial Oxidation of CH₄ over Ni-Substituted Hexaaluminate Catalysts</i>
Authors:
Shekhawat, Dushyant
Gardner, Todd H
Berry, David A
Salazar, Maria
Smith, Mark
Kugler, Edwin L
Haynes, Daniel
Spivey, James J
View PDF File for this Abstract | National Energy Technology Laboratory, Morgantown, WV USA
National Energy Technology Laboratory, Morgantown, WV USA
National Energy Technology Laboratory, Morgantown, WV USA
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REM Engineering Services, Morgantown, WV USA
West Virginia University, Morgantown, WV USA
Louisiana State University, Baton Rouge, LA USA
Louisiana State University, Baton Rouge, LA USA |
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<i>Poster
Presentation</i> | <i>PdCu B2 Hydrogen Interactions under Advanced Water Gas Shift Membrane Reactor Conditions</i>
Authors:
Vanderspurt, Thomas H
Opalka, Susan M
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United Technologies Research Center, East Hartford, CT USA |
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<i>Poster
Presentation</i> | <i>Hydrogen Production From Methanol: Experiments And Mechanistic Kinetic Modeling</i>
Authors:
Patel, Sanjay
Pant, K.K.
View PDF File for this Abstract | Indian Institute of Technology, Delhi INDIA
Indian Institute of Technology, Delhi INDIA |
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<i>Poster
Presentation</i> | <i>Catalytic Partial Oxidation of Hydrocarbons: a comparison between CH₄ and C₃H₈ reactivity over Rh-based catalysts</i>
Authors:
Donazzi, Alessandro
Groppi, Gianpiero
Beretta, Alessandra
Forzatti, Pio
View PDF File for this Abstract | Politecnico di Milano, Milano Italy
Politecnico di Milano, Milano Italy
Politecnico di Milano, Milano Italy
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<i>Poster
Presentation</i> | <i>HIGHLY EFFICIENT CONVERSION OF GASOLINE ON NOVEL Ni-Re ALLOY CATALYSTS FOR PRODUCING HYDROGEN: ENHANCEMENT OF CATALYST STABILITY BY MODIFICATION WITH Ce</i>
Authors:
Wang, Linsheng
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<i>Poster
Presentation</i> | <i>Development of sulfur tolerant catalyst for jet fuel steam reforming</i>
Authors:
Kataria, Atish S
Ayyapan, Ponnaiyan
Abraham, Martin
View PDF File for this Abstract | University of Toledo, Toledo, Ohio USA
University of Toledo, Toledo, Ohio USA
University of Toledo, Toledo, Ohio USA |
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| 12
P-S12-26B | Tuesday
6/19/2007 | <i>Mesoporous SBA-15 supported Pd-Zn catalysts for hydrogen production from methanol</i>
Authors: | |
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 Eswaramoorthi, Iyyamperumal
 Dalai, Ajay K
 University of Saskatchewan, Saskatoon Canada
 University of Saskatchewan, Saskatoon Canada
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12
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Poster Presentation
Development of Carbon Free Catalyst for CO₂-CH₄ Reforming
Authors:
 Zhang, Jianguo
 Wang, Hui
 Dalai, Ajay K.
 University of Saskatchewan, Saskatoon Canada
 University of Saskatchewan, Saskatoon Canada
 University of Saskatchewan, Saskatoon Canada
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Poster Presentation
Efficient Bi-functional Catalyst for Single Stage Water Gas Shift Conversion for Fuel Cell Applications
Authors:
 Azzam, Khalid G
 Babich, I
 Seshan, K.
 Lefferts, L.
 University of Twente, Enschede The Netherlands
 University of Twente, Enschede The Netherlands
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 University of Twente, Enschede The Netherlands
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Poster Presentation
Cyclic separation of pure hydrogen from synthesis gas via ethanol intermediate
Authors:
 Croiset, Eric
 Chladek, Petr
 Hudgins, Robert
 University of Waterloo, Waterloo/Ontario Canada
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12
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 Tuesday
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Poster Presentation
Nickel-based Monolith Catalysts for Autothermal Reforming of n- Dodecane
Authors:
 Benjamin, Gould
 Johannes, Schwank
 Chen, Xiaoyin
 University of Michigan, Ann Arbor USA
 University of Michigan, Ann Arbor USA
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12
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Poster Presentation
Hydrogen Production Via Oxidative Steam Reforming of Methanol over Cu/Ce(or Cr)/Al Oxide Catalysts
Authors:
 Pant, K. K
 Patel, Sanjay
 Indian Institute of Technology , New Delhi India
 Indian Institute of Technology , New Delhi India
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12
 P-S12-32B
 Tuesday
 6/19/2007
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Poster Presentation
Sulfur Removal From HDS-Treated Light Cut JP-8 Fuel Using Small Crystal Cu(II)Y Zeolite Adsorbent
Authors:
 Li, Liyu
 King, David L
 Pacific Northwest National Laboratory, Richland, WA USA
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12
 P-S12-33B
 Tuesday
 6/19/2007
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Poster Presentation
Sequence of Reactions for Propane Reforming over Pt/CeO₂ Catalysts
Authors:
 Das, Tapan K
 Kugler, Edwin L
 Bansode, Vijaya
 Dadyburjor, Dady B
 West Virginia University, Morgantown WV USA
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12
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 Tuesday
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CO₂ Sorption Enhanced Steam Reforming of Ethanol
Authors:
 Ochoa-Fernández, Esther
 Berntsen, Helene
 Department of Chemical Engineering, NTNU, Trondheim Norway
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Zhao, Tiejun
He, Li
Edd A. Blekkan, Edd A.
Chen, De

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NTNU, Trondheim Norway
NTNU, Trondheim Norway
NTNU, Trondheim Norway

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12
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Tuesday
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Producing Hydrogen catalytically from liquid organic hydride

Authors:
Garforth, Arthur A
The University of Manchester, Manchester UK

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12
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Tuesday
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Reactor Design Considerations for Reforming of Commercial Diesel

Authors:
Pettersson, Lars J
Karatzas, Xanthias
Ekdunge, Per
Nilsson, Marita
Lindström, Bård

KTH-Royal Institute of Technology, Stockholm Sweden
KTH-Royal Institute of Technology, Stockholm Sweden
PowerCell, Göteborg Sweden
KTH-Royal Institute of Technology, Stockholm Sweden
PowerCell, Göteborg Sweden

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12
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Hydrogen and Syngas Generation from Biomass: Catalytic Removal of NH₃ and Tars

Authors:
Gangwal, Santosh
Pansare, Sourabh S
Goodwin, Jr., James G

Research Triangle Institute International, Reserach Triangle Park, NC USA
Clemson University, Clemson, SC USA
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12
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Tuesday
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Novel high efficiency steam reforming of acetic acid for hydrogen production by Cu-Zn-Co catalyst

Authors:
Lu, Gongxuan
Hu, Xun

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12
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Tuesday
6/19/2007
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Partial Oxidation of Methane on Rh/CeZrO₂ Catalysts

Authors:
Passos, Fabio B
Oliveira, Raquel L

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Universidade Federal Fluminense, Niteroi/RJ Brazil

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Poster
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12
P-S12-40B

Tuesday
6/19/2007
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Operating characteristics for two precious metal monolithic water gas shift catalysts for hydrogen generation

Authors:
Ilinich, Oleg
Farrauto, Robert J
Ruettinger, Wolfgang

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BASF Catalysts LLC, Iselin/NJ USA
BASF Catalysts LLC, Iselin/NJ USA

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Wednesday
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A catalytic bentonitic clay assisted method for the preparation of 2-(R-anilino)-1, 4-naphthoquinones

Authors:
Leyva, Elisa
Lopez, Lluvia
Moctezuma, Edgar
De Lasa, Hugo

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University of Western Ontario, London, Ontario Canada

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Wednesday

Characterization of SiO₂ deposition on Ni/Al₂O₃ and MoO₃/Al₂O₃ catalysts

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- P-S13-02C 6/20/2007
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Poster Presentation
- Authors:**
Asamoah Boateng, Kenneth University of Calgary, Calgary, Alberta Canada
Hill, Josephine University of Calgary, Calgary, Alberta Canada
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P-S13-03C Wednesday
6/20/2007
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Poster Presentation
- Characterization of Pd/gamma-Al₂O₃ Catalysts Prepared from beta-Diketonate Precursors**
Authors:
Kim, Jaehoon North Carolina State University, Raleigh, NC USA
Kelly, Michael J North Carolina State University, Raleigh, NC USA
Roberts, George W North Carolina State University, Raleigh, NC USA
Lamb, Harold H North Carolina State University, Raleigh, NC USA
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Poster Presentation
- Characterization of Supported Nickel Catalysts Derived from RF Non-thermal Plasma Technology**
Authors:
Helleeson, Michael Texas A&M U.-Commerce, Commerce/TX USA
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- 13
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Poster Presentation
- A DRIFTS investigation on the decomposition mechanism of Mn Acetylacetonates supported on SBA-15**
Authors:
Ramesh, Kanaparthi ICES, Singapore Singapore
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- 13
P-S13-06C Wednesday
6/20/2007
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Poster Presentation
- Synthesis of Mono- and Bimetallic Nanoparticle Catalysts Utilizing Solid Phase Dendrimer Templates**
Authors:
Gilbertson, John G Trinity University, San Antonio, TX USA
Chandler, Bert D Trinity University, San Antonio, TX USA
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P-S13-07C Wednesday
6/20/2007
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Poster Presentation
- Protein Templates & Spectroscopic Rulers for Silica Surfaces**
Authors:
Greer, Rachel M Trinity University, San Antonio, TX USA
Scruggs, Brittni A Trinity University, San Antonio, TX USA
Gilbertson, John G Trinity University, San Antonio, TX USA
Chandler, Bert D Trinity University, San Antonio, TX USA
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- 13
P-S13-08C Wednesday
6/20/2007
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Poster Presentation
- Synthesis and characterization of mesoporous Co-Pb/SBA-15 catalysts**
Authors:
CAN, MUKADDES Middle East Technical University, ANKARA TURKEY
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P-S13-09C Wednesday
6/20/2007
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Poster Presentation
- Low temperature CO oxidation kinetics by dendrimer templated supported Au catalysts**
Authors:
Long, Cormac G Trinity University, San Antonio, TX USA
Gilbertson, John D Trinity University, San Antonio, TX USA
Chandler, Bert D Trinity University, San Antonio, TX USA
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6/20/2007
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Poster
- Preparation of gold nanoclusters using dendrimers and their reactivity for CO oxidation**
Authors:
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Haas, Terry E Tufts University, Medford, MA USA

Presentation Flytzani-Stephanopoulos, Maria Tufts University, Medford, MA USA
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P-S13-11C Wednesday 6/20/2007 5:30 PM
Poster Presentation

Combining TAP-2 Experiments with Atomic Beam Deposition
Authors:
 Fushimi, Rebecca Washinton University, St. Louis, MO USA
 Yablonsky, Gregory Washinton University, St. Louis, MO USA
 Gleaves, John T Washinton University, St. Louis, MO USA
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13
P-S13-12C Wednesday 6/20/2007 5:30 PM
Poster Presentation

Molecular-Size Nanocage for Catalysis: Shell Cross-Linked Carbamate Dendrimer Strategy
Authors:
 Lee, Jeong-Kyu Northwestern University, Evanston/IL USA
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 Kung, Harold H Northwestern University, Evanston/IL USA
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Poster Presentation

Synthesis and Catalytic Application of One-Dimensional and Porous ? -Fe2O3
Authors:
 Teo, Jaclyn Institute of Chemical and Engineering Sciences, Singapore Singapore
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Poster Presentation

Novel synthesis and characterization of Pt-Cu alloy nanoparticles for oxygen reduction reaction in PEMFCs
Authors:
 Liu, Zengcai University of Houston, Houston/ TX USA
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13
P-S13-15C Wednesday 6/20/2007 5:30 PM
Poster Presentation

Comparative studies of mesoporous SBA-15 supported tungsten oxide and rhenium oxide for 2-butanol dehydration
Authors:
 She, Xiaoyan Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland/WA USA
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 Wang, Yong Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland/WA USA
 H.F. Peden, Charles Institute for Interfacial Catalysis, Pacific Northwest National Laboratory, Richland/WA USA
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Poster Presentation

Synthesis, characterization, and catalytic activities of tungstophosphoric acid supported on metal oxide modified SBA-15
Authors:
 Kwak, Ja Hun PNNL, Richland WA USA
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 Herrera, Jose E University of West Ontario, London Ontario Canada
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13
P-S13-17C Wednesday 6/20/2007 5:30 PM
Poster Presentation

Electrochemical Deposition of Pt Nano Particles on Carbon Nanotubes
Authors:
 Kim, Heeyeon KIER, Daejeon KOREA(ROK)
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 Jeong, Nam Jo KIER, Daejeon KOREA(ROK)
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Presentation*
- Removal of surface templating polymers from colloidal nanoparticles for applications in heterogeneous catalysis**
Authors:
Rioux, Robert M University of California, Berkeley, Department of Chemistry, Berkeley, CA USA
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Presentation*
- Large Particle Co-MCM-41 for Fluidized Bed Applications**
Authors:
Lim, Sangyun Yale University, New Haven USA
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Pfefferle, Lisa Yale University, New Haven USA
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Presentation*
- Synthesis of Oligosiloxane Molecular Catalyst Precursors on Solid Phase**
Authors:
Missaghi, Michael N Northwestern University, Evanston, IL USA
Kung, Mayfair C Northwestern University, Evanston, IL USA
Kung, Harold H Northwestern University, Evanston, IL USA
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Presentation*
- Synthesis and Characterization of PAMAM-OH Dendrimer-Derived Iridium Supported Catalysts**
Authors:
Lopez-DeJesus, Yaritza M University of South Carolina, Columbia, SC USA
Monnier, John University of South Carolina, Columbia, SC USA
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- 13
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Presentation*
- New Heat-Stable Large Pore Ti and Ti-Nb Oxides**
Authors:
Masud, Sarif University of Texas at El Paso, El Paso USA
Saupe, Geoffrey University of Texas at El Paso, El Paso USA
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- Poster
Presentation*
- Effect of Quenching Medium on Photocatalytic Activity of Nano-sized TiO₂ Prepared by Solvothermal Method**
Authors:
SUPPHASRIRONGJAROEN, PIYAWAT CHULALONGKORN UNIVERSITY, BANGKOK THAILAND
PRASERTHDAM, PIYASAN CHULALONGKORN UNIVERSITY, BANGKOK THAILAND
PANPRANOT, JOONGJAI CHULALONGKORN UNIVERSITY, BANGKOK THAILAND
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Presentation*
- Mesoporous and Macroporous Mixed Mo-V-Te-Nb Oxides for Propane (Amm)oxidation**
Authors:
Yuan, Li University of Cincinnati, Cincinnati USA
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<i>Poster
Presentation</i> | <i>Effect of NaBH₄ concentration on the activity of PtRu/C catalyst for DMFC prepared by the impregnation method</i>
Authors:
Kim, Sang-Kyung Korea Institute of Energy Research, Daejeon Korea
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Shul, Young-gun Yonsei University, Seoul Korea
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| 14
P-S14-02A | Monday
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<i>Poster
Presentation</i> | <i>Properties of Pt-Co-Si/C alloy catalysts prepared by chemical vapor deposition as fuelcell cathodes in PEMFCs</i>
Authors:
Seo, Sang Joon Seoul National University, Seoul Korea
Kim, Hyun Tae Seoul National University, Seoul Korea
Moon, Sang Heup Seoul National university, Seoul Korea
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| 14
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<i>Poster
Presentation</i> | <i>Investigation on pH influence on PtRu/C catalyst prepared by polyol method for methanol electro-oxidation</i>
Authors:
Li, Shuang KAIST, Daejeon Republic of Korea
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Jeon, Min Ku KAIST, Daejeon Republic of Korea
Daimon, Hideo Hitachi-Maxell, Ibaraki Japan
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| 14
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<i>Poster
Presentation</i> | <i>Nanostructured Au/CeO₂ and Au/Fe₂O₃ catalysts for the CO oxidation and the water-gas shift reactions</i>
Authors:
Deng, Weiling Tufts University, Medford USA
Yi, Nan Tufts University, Medford USA
Flytzani-Stephanopoulos, Maria Tufts University, Medford USA
Bocuzzi, Flora Università di Torino, Torino Italy
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<i>Poster
Presentation</i> | <i>Control of Oxygen Non-Stoichiometry in La_xAl_{1-x}Mn_yBi_{1-y}O_{3+d} Perovskites for SOFC Applications</i>
Authors:
Patcas, Florina-Corina Karlsruhe Institute Of Technology, Karlsruhe Germany
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<i>Poster
Presentation</i> | <i>Methane Oxidation via Lattice Oxygen under Solid Oxide Fuel Cell Conditions</i>
Authors:
van den Bossche, Michael University of Virginia, Charlottesville, VA USA
McIntosh, Steven University of Virginia, Charlottesville, VA USA
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| 14
P-S14-07A | Monday
6/18/2007
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<i>Poster
Presentation</i> | <i>Investigating the Volcano Curve Correlation for Formic Acid Decomposition on Bulk Metal Catalysts</i>
Authors:
Roberts, Charles A Lehigh University, Bethlehem, PA U.S.A.
Wachs, Israel E Lehigh University, Bethlehem, PA U.S.A.
View PDF File for this Abstract |
| 14
P-S14-08A | Monday
6/18/2007
5:30 PM | <i>Microstructural Evolution of Nickel-Zirconia SOFC Anode During Methane "On-Anode" Reforming</i>
Authors:
King, David L Pacific Northwest National Lab, Richland, WA |

<i>Poster Presentation</i>	Chin, Ya-Heui Lin, Yuanbo Recknagle, Kurtis Roh, Hyun-Seog Singh, Prabhakar Sprenkle, Vincent Wang, Chongmin Strohm, James Wang, XianQin Wang, Yong	UC Berkeley, Berkeley/CA Northwestern Univ, Evanston, IL Pacific Northwest National Lab, Richland, WA Korea Institute of Energy Research, Daejeon South Korea Pacific Northwest National Lab, Richland, WA Pacific Northwest National Lab, Richland, WA Pacific Northwest National Lab, Richland, WA Pacific Northwest National Lab, Richland, WA Pacific Northwest National Lab, Richland, WA Pacific Northwest National Lab, Richland, WA
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14 P-S14-09A	Monday 6/18/2007 5:30 PM	Active Gold Species during Preferential Oxidation of CO in H₂ over Au/CeO₂ Catalysts
<i>Poster Presentation</i>	Authors: Hernandez- Maldonado, Jose A Gomez, Sergio A Fuentes, Gustavo A	Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico Department of Process Engineering, Universidad A. Metropolitana-Iztapalapa, Mexico, D.F. Mexico

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14 P-S14-10A	Monday 6/18/2007 5:30 PM	Transition Metal Promoters for Pd in Methanol Steam Reforming Applications
<i>Poster Presentation</i>	Authors: Castellano, Christopher R Moini, Ahmad Koermer, Gerald S Liu, Ye Farrauto, Robert J	BASF Catalysts LLC, Iselin, NJ 08830 BASF Catalysts LLC, Iselin, NJ 08830 USA BASF Catalysts LLC, Iselin, NJ 08830 USA BASF Catalysts LLC, Iselin, NJ 08830 USA BASF Catalysts LLC, Iselin, NJ 08830 USA

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14 P-S14-11A	Monday 6/18/2007 5:30 PM	Effects of divalent B-site cations upon the structural and catalytic properties on Fe-based mixed conductors
<i>Poster Presentation</i>	Authors: Kuhn, John N Ozkan, Umit S	The Ohio State University, Columbus, Ohio USA The Ohio State University, Columbus, Ohio USA

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14 P-S14-12A	Monday 6/18/2007 5:30 PM	Electrochemical properties of platinum-carbon aerogel catalysts for fuel cell applications using the CO stripping technique
<i>Poster Presentation</i>	Authors: Suh, Dong Jin Kim, Hyun-Joong Lim, Tae-Hoon Park, Hyung-Sang	Korea Institute of Science and Technology, Seoul Korea Korea Institute of Science and Technology, Seoul Korea Korea Institute of Science and Technology, Seoul Korea Sogang University, Seoul Korea

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14 P-S14-13A	Monday 6/18/2007 5:30 PM	Design of composite anodes for IT SOFC based upon Ni/YSZ (ScSZ) cermets: effect of promoters on lattice oxygen mobility, reactivity and performance in CH₄ oxidation/reforming
<i>Poster Presentation</i>	Authors: Sadykov, Vladislav Mezentseva, Natalia Bunina, Rimma Alikina, Galina Lukashevich, Anton Lukashevich, Anton Kharlamova, Tamara Rogov, Vladimir Ishchenko, Arcady Zaikovskii, Vladimir Bobrenok, Oleg	Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Boreskov Inst. Catalysis, Novosibirsk Russia Inst. Thermophysics, Novosibirsk Russia

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 Vasiliev, Oleksandr Inst. for Problems of Materials Sci., Kyiv Ukraine
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14 P-S14-14A Monday 6/18/2007 5:30 PM
Poster Presentation
Surface Energy and Water Sorption Characterization of Fuel Cell Components at Different Relative Humidity Conditions
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14 P-S14-15A Monday 6/18/2007 5:30 PM
Poster Presentation
Preparation of Pt/NiO-C Catalyst for the Methanol Electro-oxidation
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14 P-S14-16A Monday 6/18/2007 5:30 PM
Poster Presentation
A highly CO tolerant Pt/nanoporous WC catalyst as anode material for low temperature Fuel Cell
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14 P-S14-17A Monday 6/18/2007 5:30 PM
Poster Presentation
Electrochemical oxidation of methanol and ethanol on Cu/CeO₂, Cu-Co/CeO₂ and LSV anodes for Solid Oxide Fuel Cells
Authors:
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14 P-S14-18A Monday 6/18/2007 5:30 PM
Poster Presentation
Miniaturized Hydrogen Production by Decomposition of Ammonia Stored in Metal Ammines
Authors:
 Christensen, Claus H Technical University of Denmark, Lyngby Denmark
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 Nørskov, Jens K Technical University of Denmark, Lyngby Denmark
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14 P-S14-19A Monday 6/18/2007 5:30 PM
Poster Presentation
Vanadium-modified ceria-based catalysts for water gas shift reaction
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14 P-S14-20A Monday 6/18/2007 5:30 PM
Poster
Sulfur Tolerant Fuel Processor Catalysts
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14 P-S14-21A Monday 6/18/2007 5:30 PM
Poster Presentation

Application of CuOx -CeO2 catalysts as sensor substrates for catalytic detection of CO in H2 fuel
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14 P-S14-22A Monday 6/18/2007 5:30 PM
Poster Presentation

Microstructural Evolution of Nickel-Zirconia SOFC Anode During Methane "On-Anode" Reforming
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14 P-S14-23A Monday 6/18/2007 5:30 PM
Poster Presentation

Effects of Lattice Strain on Activities of Pt-alloy Electrocatalysts for PEMFC
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14 P-S14-24A Monday 6/18/2007 5:30 PM
Poster Presentation

Electro-oxidation over SOFC anodes: DFT studies of elementary step mechanisms
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14 P-S14-25A Monday 6/18/2007 5:30 PM
Poster Presentation

DEGRADATION RATE OF THE GRATZEL SOLAR CELL SENSITIZER N719 ON DIFFERENT TiO2 SAMPLES
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14 P-S14-26A Monday 6/18/2007 5:30 PM
Poster Presentation

Effect of the Modification of Carbon on the Performance of Fuel Cell Catalysts
Authors:
 Molero, Hebert M University of Calgary, Calgary/Alberta Canada
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14 P-S14-27A Monday 6/18/2007 5:30 PM

Modeling the Electrocatalytic Oxygen Reduction Reaction using Theoretical and Surface Science Techniques
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Presentation

Single Particle Temporal Analysis of Products Reactor
Authors:
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Presentation

Catalyst and Oxygen Permeable Membrane Synergy in Hydrocarbon Conversion Reactors
Authors:
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