Research outputs:

Biobrændsel - et varmt alternativ
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2013 › Education › peer-review

Hydrodeoxygenation of waste fat for diesel production: Study on model feed with Pt/alumina catalyst
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Chemoenzymatic combination of glucose oxidase with titanium silicalite -1
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Combining enzymes with heterogeneous chemical catalysts
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Combining enzymes with heterogeneous chemical catalysts: chemoenzymatic combination of oxidase enzymes with titanium silicalite-1
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research

Formation of imines by selective gold-catalysed aerobic oxidative coupling of alcohols and amines under ambient conditions
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Renewable building block for plastic industry: Gold-catalyzed oxidation of HMF to FDA in water
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Selective gold-catalysed aerobic oxidations under ambient conditions
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Size-selective aerobe oxidation by sinter stable gold nanoparticles embedded in zeolite crystals
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Size-selective Oxidation with Au nanoparticles embedded in Zeolite Crystals
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Substrate Size-Selective Catalysis with Zeolite-Encapsulated Gold Nanoparticles
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review
Assessing the acid properties of desilicated ZSM-5 by FTIR using CO and 2,4,6-trimethylpyridine (collidine) as molecular probes
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Co-conversion of Ethane and Methanol into Higher Hydrocarbons over Ga/H-ZSM-5, Mo/H-ZSM-5 and Ga-Mo/H-ZSM-5
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Conversion of Methanol and Higher Alcohols over H-ZSM-5
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2009 › Research › peer-review

Effect of alloying on carbon formation during ethane dehydrogenation
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Fremtidens Biodiesel: Kom fedtaffald i tanken!
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Communication

Gas-Phase Oxidation of Aqueous Ethanol by Nanoparticle Vanadia/Anatase Catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Gold catalyzed aerobic oxidations of alcohols and aldehydes
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2009 › Research › peer-review

Impact of Support and Potassium-Poisoning on the V2O5-WO3/ZrO2 Catalyst Performance in Ammonia Oxidation
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Improved Automotive NO (x) Aftertreatment System: Metal Ammine Complexes as NH3 Source for SCR Using Fe-Containing Zeolite Catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

"One-Pot" Ion-Exchange and Mesopore Formation During Desilication
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Renewable Chemicals by Sustainable Oxidations using Gold Catalysts
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Research › peer-review

The Hydrocarbon Pool In Ethanol-to-Gasoline over HZSM-5 Catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Aerobic Oxidation of Alcohols over Gold Catalysts: Role of Acid and Base
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Aerobic oxidation of aldehydes under ambient conditions using supported gold nanoparticle catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Ammonia as a Hydrogen Storage Medium
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review
Ammonia for hydrogen storage: challenges and opportunities
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

A molecular view of heterogeneous catalysis
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

A Study of Conventional and Mesoporous Fe-BEA Materials for NH₃-SCR
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

A study of Fe-based zeolites as NH₃-SCR catalysts
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

BEP-relations for N₂ dissociation over stepped transition metal and alloy surfaces
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Biodiesel via hydrotreating of fat
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Bivirkninger ved brintpiller
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Chemicals from renewables: Aerobic oxidation of furfural and hydroxymethylfurfural over gold catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Co-Conversion of Ethane and Methanol over Ga/H-ZSM-5
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Deposición de Zeolita Jerárquica sobre Soportes Estructurados
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Development of new and improved Fe-zeolite NH₃-SCR catalysts for automotive applications
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Enhancing the Porosity of Mesoporous Carbon-Templated ZSM-5 by Desilication
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Gold Catalyzed Aerobic Oxidation of Alcohols and Amines in the Synthesis of Amides, Oximes and Imines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Green Aerobic Oxidation of HMF
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Green Oxidation Chemistry Applying Gold Catalysts
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Green Oxidations: Synthesis of Amides, Oximes and Imines by Gold Catalyzed Oxidation of Amines and Alcohols
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review
Green oxidations with Au nanoparticles
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Hierarchical Zeolite Catalysts: State-of-the-Art
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Hierarchical zeolites: Enhanced utilisation of microporous crystals in catalysis by advances in materials design
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Hierarchical Zeolites, Large Molecules Welcome
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Identification of non-precious metal alloy catalysts for selective hydrogenation of acetylene
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Improved NOx removal with novel iron-based zeolite catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Indirect Hydrogen storage in Metal Amine Complexes for Portable Devises
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Indirect, reversible high-density hydrogen storage in compact metal ammine salts
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

In situ studies on hydrogen/ammonia storage materials
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research › peer-review

Investigation of a model feed for hydrotreating of oils and fats
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Jo mindre jo bedre: Ultrasmå guldklumper sætter fart på kemien
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research

Kolloider - på bølgelængde med lys og nanoteknologi
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Model Feed for Hydrotreating of Fat for Biodiesel Production
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Model Feed for the Hydrotreating of Fat for Biodiesel Production
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Naturvidenskaben ser fremad og skelrer bagud: Det skal undervisningen også gøre
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research
Novel Fe-based Zeolites with Improved NH₃-SCR Activity
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Oxidation of Glycerol and Propanediols in Methanol over Heterogeneous Gold Catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Oxidations of amines with molecular oxygen using bifunctional gold–titania catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Renewable Hydrocarbons from Bioethanol
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Steam Reforming of Industrial Bioethanol
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Steam reforming of technical bioethanol for hydrogen production
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Synthesis and characterization of conventional and mesoporous Ga-MFI for ethane dehydrogenation
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Synthesis and characterization of mesoporous ZSM-5 core-shell particles for improved catalytic properties
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Synthetic Routes to Hierarchical Zeolites
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

Tailoring the porosity of hierarchical zeolites by carbon-templating
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2008 › Research › peer-review

Tailoring the Porosity of Hierarchical Zeolites by Carbon-templating
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Templating mesoporous zeolites
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

The nature of the active site in heterogeneous metal catalysis
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

The Renewable Chemical Industry: Fuels and Chemicals from Biomass
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

The Renewable Chemical Industry
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

The Renewable Chemical Industry: Optimal Use of Biomass
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review
CO methanation over supported bimetallic Ni-Fe catalysts: From computational studies towards catalyst optimization
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Compact and safe hydrogen storage in solid metal ammines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Compact Hydrogen Production from Ammonia Stored in Solid Metal Ammines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Den Fornybare Kemiske Industri
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Direct Aerobic Oxidation of Alcohols to Methyl Esters
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Direct aerobic oxidation of primary alcohols to methyl esters catalyzed by a heterogeneous gold catalyst
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Direct Green Synthesis of Amides by Aerobic Oxidation of Alcohol and Amine Mixtures
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Direct NO decomposition over stepped transition-metal surfaces
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Discovery and Development of Alloy Catalysts for Methanation by Combining Computational Screening and Experimental Methods
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Discovery of technical methanation catalysts based on computational screening
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Formation of Acetic Acid and Ethyl Acetate by Gold Catalysed Oxidation of Ethanol
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Gold Catalysed Aqueous-Phase Oxidation of Bioethanol
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Gold Catalysis: A theoretical approach
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Gold Catalysis: New Routes to Key Commodity Chemicals
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Gold Catalyzed Aerobic Oxidation of Ethanol: A Sustainable Path to Commodity Chemicals
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review
Gold Mediated Oxidation of Alcohols: A Green Route to Methyl Esters
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Gold Nanoparticle Catalyzed Aerobic Oxidation of Alcohols
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Gold nanoparticles catalyzed oxidation of alcohols - From biomass to commodity chemicals
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Green Oxidations of Amines With Air Using a TiO2 Catalyst: A New Route to Cyclohexanone Oxime
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Green route to caprolactam by liquid-phase Beckmann rearrangement over hierarchical zeolites
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Guld og flyvende grise: En opdagelsesrejse ind i nanokemiens verden
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Hierarchical zeolites: progress on synthesis and characterization of mesoporous zeolite single crystal catalysts
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Hierarchical zeolites: progress on synthesis and characterization of mesoporous zeolite single crystal catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Hydrogen Storage in Metal Ammines: State-of-the-art Storage in Compact Solids
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Indirect, Reversible High-Density Hydrogen Storage in Compact Metal Ammine Salts
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Insights into the Reactivity of Supported Au Nanoparticles: Combining Theory and Experiments
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Investigation of New Methanation Catalysts Discovered by Combining Computational and Experimental Studies
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Maximizing renewable hydrogen production from biomass in a bio/catalytic refinery
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Mesoporous carbon prepared from carbohydrate as hard template for hierarchical zeolites
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Mesoporous Fe-containing ZSM-5 zeolite single crystal catalysts for selective catalytic reduction of nitric oxide by ammonia
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Mesoporous zeolite and zeotype single crystals synthesized in fluoride media
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review
Mesoporous Zeolite Single Crystal Catalysts: Tailored Hierarchical Catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Mesoporous zeolite single crystal catalysts: Diffusion and catalysis in hierarchical zeolites
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Methanation: Optimization of an Industrial Important Process
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Methanisation: På vej til nye katalysatorer ved kombination af computerberegninger og eksperimenter
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Miniaturized Hydrogen Production by Decomposition of Ammonia Stored in Metal Ammines
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Modeling Fischer Tropsch Catalysis: CxHy, Species On Ru(1 0 -1 5)
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Molekylesier – De vises sten
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2007 › Education › peer-review

New Uses of Biofuels
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Novel Methanation Catalysts Discovered by Computational Screening
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Polymer Building Blocks from Renewable Feedstocks by Gold-Catalyzed Oxidative Esterfications
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Progress on Synthesis and Catalysis of Mesoporous Zeolite Single Crystals
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Reversible Hydrogen Storage in Metal Ammine Salts: Recent Progress and Prospects
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Selective catalytic oxidation of amines using molecular oxygen over gold-titania catalysts: New routes to caprolactam and cyclohexanone oxime
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Selective Catalytic Reduction of NO by Ammonia Using Mesoporous Fe-Containing Zeolite Catalysts: An Option for Automotive Applications
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review
Self-assembly of $C_{60}$ into highly ordered chain-like structures on HOPG observed at ambient conditions
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Solceller - et strående svar på den indlysende udfordring
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2007 › Education › peer-review

State-of-the-art Hydrogen Storage in Solids
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

State-Of-The-Art Indirect Hydrogen Storage In Metal Ammines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Steam Reforming of Bioethanol
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Sulfated Zirconia as Alkali-Resistant Support for Catalytic NOx Removal
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Sulfate Promoted Zirconia as Promising Alkali-Resistant Support for Catalytic NOx Removal
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research

Template-directed synthesis of chalcogenide nanostructures
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

The Bio/Catalystic Refinery
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

$\text{TiO}_2$ Catalyzed Oxidations of Amines
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Towards high density hydrogen storage - a safe route to the ammonia-mediated hydrogen economy
Research output: Contribution to conference › Poster – Annual report year: 2007 › Research › peer-review

Trends in Catalytic CO Oxidation on Different Metal Nanoparticles
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Trends in catalytic NO decomposition over transition metal surfaces
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Vanadia-based SCR Catalysts Supported on Tungstated and Sulfated Zirconia: Influence of Doping with Potassium
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Versatile route to zeolite single crystals with controlled mesoporosity: in situ sugar decomposition for templating of hierarchical zeolites
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review
A high-density ammonia storage/delivery system based on Mg(NH$_3$)$_6$Cl$_2$ for SCR-DeNO$_x$ in vehicles
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

A new method for the synthesis MoS$_2$ nanotubes
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Bæredygtig Eddikesyre
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Bæredygtig Udvikling - Det Økologiske Fodspor
Research output: Book/Report › Book – Annual report year: 2006 › Research › peer-review

Benchmarking conventional and mesoporous Fe-containing ZSM-5 zeolite catalysts for selective catalytic reduction of nitric oxide by ammonia
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Bio-hydrogen production by catalytic ethanol steam reforming
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Catalytic production of bio-hydrogen: Carbon formation on Ni and Ru catalysts during ethanol steam reforming
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Characterisation of SOFC Cathode Material
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Chemistry - Toward efficient hydrogen production at surfaces
Research output: Contribution to journal › Editorial – Annual report year: 2006 › Research › peer-review

Comparison of conventional and mesoporous Cu-ZSM-5 and Cu-ZSM-11 catalysts with different Cu content for direct NO decomposition
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Computational materials design from first principles
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Computer-assisted search for new ammonia synthesis catalyst
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Continuous, gas-phase oxidation of bio-ethanol with air using gold catalysts: A green and sustainable process to make acetic acid
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research

CO-removal from Biohydrogen Produced by Steam Reforming: Discovery of New Catalysts Based on Fundamental Insight
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Cu-ZSM-5, Cu-ZSM-11, and Cu-ZSM-12 Catalysts for Direct NO Decomposition
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Direct NO decomposition over conventional and mesoporous Cu-ZSM-5 and Cu-ZSM-11 catalysts: improved performance with hierarchical zeolites
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review
Discovery of New Technical Catalysts Based on Insight
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Discovery of New Technical Methanation Catalysts Based on Computational Screening
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Electronic-Structure-Based Design of Ordered Alloys
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

EPR spectroscopic characterization of Cu-Cu interactions on ZSM-5, ZSM-11 and ZSM-12 type catalysts for direct NO decomposition
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

EPR Spectroscopic Characterization of Cu Interactions on Alternative Oxide Catalysts for DeNOX
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2006 › Research

Ethanol as a renewable feedstock for commodity chemicals: Acetic acid as an example
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Formation of acetic acid by aqueous-phase oxidation of ethanol with air in the presence of a heterogeneous gold catalyst
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Formation of Acetic Acid by Aqueous-Phase Oxidation of Ethanol with Air in the Presence of a Heterogeneous Gold Catalyst
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

From Renewables to Fuels and Chemicals: Sustainability by Catalysis
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Generation of nanopores during desorption of NH3 from Mg(NH3)6Cl2
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Gold Catalysed Aqueous-Phase Oxidation of Ethanol by Air
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Gold nanoparticles encapsulated within mesoporous zeolite
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Gold Nanoparticles On Mesoporous Zeolite as CO Oxidation Catalyst
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Green Oxidations with Dioxygen Facilitated by New Nanostructured Catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Heterogen katalyse: nanomaterialer i aktion
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Communication
Hierarchical Zeolites: Progress on Synthesis and Catalysis
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

High Surface Area Graphite as Support in Micro-Fabricated Reactors: A new Possibility for Optimizing Small Scale Catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Insights into the ammonia synthesis from first-principles
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Integrated Micro System for Controlled Delivery of Hydrogen from Metal Ammines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Making the Hydrogen Economy a Reality: Fuel Cell Tablets
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Mesoporous Fe-Containing ZSM-5 Zeolite Single Crystal Catalysts for Selective Catalytic Reduction of Nitric Oxide by Ammonia
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Mesoporous Zeolite and Zeotype Single Crystals Synthesized in Fluoride Media
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Mesoporous Zeolite Single Crystals: Advanced Studies on their Structure and Properties
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Metal ammines as ammonia storage for SCR
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nano-kulfilamenter på dehydrogeneringskatalysatorer
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nanomaterials for Dehydrogenation Reactions
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nanomaterials for hydrogenation and dehydrogenation reactions
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nanoparticles On Mesoporous Zeolite as CO Oxidation Catalyst
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nanoporous zeolite single crystals as promising catalysts
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Nanoteknologi i Kemiske Horisonter
Research output: Book/Report › Book – Annual report year: 2006 › Research › peer-review
New Methanation Catalysts: From Computational Screening Towards Industrial Use
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

NH₃ desorption from dense bodies of Mg(NH₃)₆Cl₂ facilitated by generation of nanopores
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Novel Indirect Hydrogen Storage Materials
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Observation of new chain-like structures of C₆₀ on HOPG at ambient conditions using STM
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Opdagelse af nye katalysatorer til methanisering
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Pareto-optimal methanation catalysts
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

På vej mod Nye Kemiske Horisont
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Predicting catalysis: Understanding ammonia synthesis from first-principles calculations
Research output: Contribution to journal › Review – Annual report year: 2006 › Research › peer-review

Progress on Mesoporous Zeolite Single Crystal Catalysts: Hierarchical nano-oxides
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Promoted Ru on high-surface area graphite for efficient miniaturized production of hydrogen from ammonia
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

PtRu colloid nanoparticles for CO oxidation in microfabricated reactors
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Reversible NH₃ binding in Mg(NH₃)₆Cl₂
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research

Reversible NH₃ binding in Mg(NH₃)₆Cl₂
Research output: Book/Report › Report – Annual report year: 2007 › Research

Reversible NH₃ binding in Mg(NH₃)₆Cl₂
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Safe and Effective Hydrogen Storage: Bridging the hydrogen and ammonia economy
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Selective Dehydrogenation of Ethane and Propane for Producing Alkene Feedstocks
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Selective Ethane Dehydrogenation
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review
Selective Reduction of Nitric Oxide by Ammonia using Mesoporous Fe-Containing Zeolite Catalysts: An Option for Automotive Applications
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Simpel metode til selvorganiserings af C₆₀ til en-dimensionelle kædestrukturer
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Simple and safe NH₃ delivery for mobile SCR-DeNOₓ using Mg(NH₃)₆Cl₂
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Simulated decomposition of Mg(NH₃)₆Cl₂
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

STM imaging of C₆₀ on HOPG at ambient conditions
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Størrelsesdirigerede synteser af MoS₂ nanorør
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Surprisingly simple approach for self-assembly of C₆₀ into 1D chain structures
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Sustainable Acetic acid
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research

Sustainable and Green Aqueous-phase Oxidation of Bioethanol to Acetic Acid Using Gold Catalysts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Template-directed growth of MoS₂ nanotubes
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Toward computational screening in heterogeneous catalysis: Pareto-optimal methanation catalysts
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Toward Efficient Catalytic Routes to Hydrogen from Bioresources
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Towards an ammonia-mediated hydrogen economy?
Research output: Contribution to journal › Conference article – Annual report year: 2006 › Research › peer-review

Trends in Catalytic NO decomposition: A Combined Experimental and Theoretical Study
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Trends in Catalytic NO Decomposition over Transition Metal Surfaces
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research › peer-review

Tungstated zirconia as promising carrier for DeNOx catalysts with improved resistance towards alkali poisoning
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review
Use of Biomass as a Sustainable and Green Fuel with Alkali-Resistant DeNOx Catalysts based on Sulfated or Tungstated Zirconia
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research

Volcano curve for NO decomposition on transition metal surfaces
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Aluminum-rich Mesoporous Zeolite Single Crystals
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research › peer-review

Ammonia synthesis from first principles calculations
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Catalytic ammonia decomposition: miniaturized production of CO\textsubscript{2}-free hydrogen for fuel cells
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Catalytic production of bio-hydrogen: Carbon formation on Ni and Ru catalysts during ethanol steam reforming
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research › peer-review

Crystals in crystals: Nanocrystals within mesoporous zeolite single crystals
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

High-density storage of hydrogen in metal ammine complexes
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research › peer-review

Hydrogen Storage in Metal Ammines
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Mesoporous zeolite single crystals for catalytic hydrocarbon conversion
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Mesoporous Zeolite Single Crystals for Catalytic Hydrocarbon Conversion
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Metal ammine complexes for high-density storage of hydrogen: Bridging the hydrogen and ammonia economy
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Metal ammine complexes for hydrogen storage
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Metal ammines for efficient hydrogen storage: Towards an ammonia-based hydrogen economy
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Microfabricated high temperature reactor for catalytic partial oxidation of methane
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review
The Electronic Structure Effect in Heterogeneous Catalysis
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research

Toward an Ammonia-mediated Hydrogen Economy
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Tungstated zirconia as a promising carrier for production of DeNOx catalysts with improved resistance towards alkali poisoning
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research › peer-review

Why the Optimal Ammonia Synthesis Catalyst is not the Optimal Ammonia Decomposition Catalyst
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

The Art of Making Molecules and Materials
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2004 › Research

The Brøndsted-Evans-Polanyi relation and the volcano curve in heterogeneous catalysis
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Catalytic benzene alkylation over mesoporous zeolite single crystals: Improving activity and selectivity with a new family of porous materials
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Projects:

Bifasisk katalyse
Project: PhD

Heterogeneous Catalysts for Asymmetric Epoxidation Reactions
Project: PhD

Syntese og karakterisering af DeNOx katalysatorer
Project: PhD

Nanomaterialer til hydro-/dehydrogeneringsreaktioner
Project: PhD

Synthesis, characterization and photocatalytic properties of Ti- and V-containing materials with different porosity
Project: PhD

Studier af metalkatalyserede decarbonyleringer
Project: PhD

Chemical Design of Functional Nanotube Materials
Project: PhD

Selective Homogeneous Catalysis in Asymmetric Synthesis
Project: PhD

Detection of single ion channel activity in neurons with multipoint probes
Project: PhD
**Design of Functional Nanomaterials**  
Project: PhD

**Fuel and Chemicals from Renewable Alcohols**  
Project: PhD

**Metal Ammine Complexes as New Hydrogen Storage Materials**  
Project: PhD

**Hydrogen from Metal Ammines**  
Project: PhD

**Design of Heterogeneous Catalysts**  
Project: PhD

**Ultra Porous Zeolites: Structure-Activity Relations**  
Project: PhD

**Design of Functional Nanomaterials**  
Project: Research

**Heterogeneous Catalysis for Chemical Production**  
Project: Research