Monday, 27th July  
Lecture Hall Building  
Time: 16:30 – 18:30  

Poster Session 1  

Catalysis 

1. Candida Milone, Chemoselective hydrogenation of a,b unsaturated ketone to secondary allylic alcohol on Au/CeO$_2$ catalysts  
2. Xim Bokhimi, Au/Rutile Catalysts: Effect of the activation air flow and the aging time on the catalytic activity for CO oxidation  
3. Donka Andreeva, Gold supported on ceria doped by Me$^{3+}$ (Me=Al and Sm) for water gas shift: Influence of the dopant and preparation method  
4. Weixin Huang, Nucleation, growth and catalytic activity in CO oxidation of Au nanoparticles supported on CoO/SiO$_2$  
5. Aleksander Groszek, Heats of interaction of gold powders with hydrogen and its effect on subsequent sorption of oxygen and noble gases  
6. Kun-Ming Jia, Morphology Effect of Ceria on the Activity of Au-CeO$_2$ Catalysts for the CO Oxidation Reaction  
7. Satoshi Kameoka, Metallurgical design for the fabrication of mesoporous gold catalysts  
8. Izabela Sobczak, Gold interaction with group five elements located in mesoporous matrices – the effect on the catalytic properties  
9. Catherine Louis, Supported gold catalysts for the decomposition of Volatile Organic Compounds: Total oxidation of propene as model reaction  
10. Heather Abbott, Structure-reactivity relationships for Au-Pd nanoparticles supported on thin metal-oxide films  
11. Hyo Jin Bae, Gold(I)-catalyzed synthesis of highly substituted 2-cyclopentenones from 5-siloxypent-3-en-1-ynes  
12. Gabriela Diaz, Surface properties of Au-Ir/TiO$_2$ catalysts  
13. Nikolaos Dimitratos, Solvent-free oxidation of benzyl alcohol using Au-Pd catalysts prepared by sol immobilisation  
14. Pandian Lakshmanan, Preparation and characterization of Au/CeO$_2$/Al$_2$O$_3$ catalysts and catalytic performances in total oxidation of propene  
15. Sankar Meenakshisundaram, Oxidation of glycerol using gold catalysts: Role of reaction condition on the product selectivity  
16. Nina Bogdanchikova, The effect of multiplicity of Au active sites in one catalyst of CO oxidation  
17. Andrea Beck, Colloidal approach in preparation of promoted Au/SiO$_2$ catalysts  
18. John A. Moma, The effect of gold addition to TiO$_2$ on its photocatalytic performance  
19. Mpfunzeni Raphulu, CO oxidation: Deactivation of gold catalysts during storage
20. Tana, **Size effect of Au nanoparticle in Au/CeO₂ catalysts**

21. Dhiren Ramdayal, **The commercial application of gold catalysts for CO oxidation in respiratory protection devices**

22. Ulf Prüße, **Egg-shell gold catalysts on spherical alumina beads prepared by the sol-gel method**

23. Peter Miedziak, **The preparation of Au-Pd bi-metallic catalysts using deposition precipitation methodology**

24. Aiqin Wang, **A general approach to synthesize thermally stable and highly active Au-Ag alloy nanoparticles supported on inert supports**

25. Frigyes Solymosi, **Formation, migration and reactivity of NCO species on Au catalyst**

26. Tomoki Akita, **TEM and HAADF-STEM observation of Au-CeO₂ interface**

27. Oksana Linnik, **Combination of gold metal nanoparticles and semiconductive film in photocatalytic destruction of tetracycline hydrochloride**

28. Halyna Jashan, **Optical properties and XPS characterization of gold nanoparticles in colloids and within TiO₂/ZrO₂/SiO₂ film**

29. Flora Boccuzzi, **New insight on the nature of catalytically active gold sites: analysis of FTIR CO spectra and of quantitative CO chemisorption data**

30. Flora Boccuzzi, **H₂ production by PROX and WGS reactions over Au/CeO₂-Fe₂O₃ catalysts: effect of support composition**

31. Naoki Toshima, **Novel synthesis, structure, and oxidation catalysis of Ag/Au bimetallic nanoparticles**

32. Siwat Rujinarong, **Preferential oxidation of CO over a Au/TiO₂ catalyst prepared by deposition-precipitation in a double-stage packed bed reactor**

33. Gabor Kovacs, **Theoretical analysis of the gold(I) catalyzed addition of O- and N-Nucleophiles**

34. Martin Ackermann, **Synthesis of quinones and hydroquinones with a gold-catalysed key step**

35. Alexander Shestakov, **Theoretical study of alkane C-H bond functionalization with carbene complexes of Au(I)**

36. Tobias Hengst, **Gold-catalyzed alkyne insertion into carbon-carbon single bonds**

37. Annette Loos, **Screening of different gold complexes in gold-catalyzed organic reactions**

38. Masanori Kohyama, **First-principles calculations of the atomic and electronic structures of Au/TiO₂ interfaces**

39. Shreekant Satav, **Structure of catalytically active gold in Au/CeO₂: Time-resolved in-situ HERFD X-ray during pretreatment and CO oxidation**

40. Chosu Khin, **Gold(I) Catalyzed O-Nucleophile Reactions to Activated C≡C and C≡N Bonds**

41. Jeffrey Miller, **Selective propene oxidation on subnanometer gold clusters supported on amorphous alumina**
42. Andreas Schuster, *Nitrogen ligands with and for gold catalysis*
43. René Döpp, *Highly substituted phenols from furans*
44. Irina Somakova, *Development of Au/Al₂O₃ catalytic nanosystem doped by Ce and Ce-Zr oxides for the formation of catalytically active well dispersed gold nanoparticles*
45. Irina Somakova, *Study of catalytic behaviour of Au supported on different supports in vapour-phase α-pinene isomerization*
46. Irina Somakova, *Selective vapour-phase α-pinene isomerization to camphene over Au/Al₂O₃*
47. Sergio Antonio Gomez Torres, *Reduction of Au species and oxidation of CeO₂ during the deactivation of Au/Al₂O₃ PROX catalyst*
49. Floriana Vindigni, *Gold catalysts for the water-gas shift reaction: effect of ZrO₂ addition to CeO₂ support*
50. Vitor Zamarion, *SERS characterization of a supramolecular self-assembled catalyst comprising magnetic nanoparticles covered with [Ru₂O(OAc)₆-Mpy(CH₃OH)₂]OAc modified gold nanoparticles*
51. Dieter Weber, *Resting states in Gold(I)-catalyzed intramolecular allene hydroarylations*
52. Takuma Sato, *Benzo[b]thiophene synthesis via gold catalysis*
53. Izabela Sobczak, *Gold and gold-iron modified zeolites – towards the adsorptive-catalytic deodorisation*
54. Tetsuro Kaneko, *Gold-catalyzed transesterification: ortho-alkynylbenzoyl group as a novel protecting group for alcohols*
55. Farhad Kabiri Esfahani, *Support-free gold nanoclusters as recyclable catalyst for aerobic oxidation of alcohols at room temperature*
56. Chosu Khin, *Gold(I) Catalyzed O-Nucleophile Reactions to Activated C≡C and C≡N Bonds*

**Chemistry**

57. Pascaline Fonteh, *Chrysotherapy: evaluating the anti-HIV activity of some novel gold(I) phosphine compounds*
58. Marco Bortoluzzi, *Gold(III) complexes of N-donor heterocycles: a computational study on the Au-N bond*
59. Laura Gilberg, *Surface modification of gold nanoparticles using template controlled ligand exchange reactions*
60. Sabine Szunerits, *Short and long range sensing on plasmonic interfaces*
61. Nikolay Vorob’ev-Desyatovskii, *For what reason the gold(I) cyanide complexes undergo chemisorption on activated carbon?*
62. Peter Kunz, *Novel imidazole-based phosphane gold(I) complexes as potential agents for cancer treatment*
63. Anna Pintus, Absorption and emission properties in asymmetrically substituted [Au(Ar,H-edt)2]x- bis(1,2-dithiolene) complexes (Ar,H-edt2– = aryl-ethylene-1,2-dithiolato; x = 0, 1)

64. Fabio Cocco, Synthesis and reactivity of gold(III) C^N^N cyclometalated derivatives

65. Jasmine Korčok, The impact of metallophilicity on 'colossal"" positive and negative thermal expansion in dicyanometallate coordination polymers

66. Frederik Kriel, Biological activity of gold and silver bis(phosphino)hydrazine complexes

67. Nadine Meyer, Peri-aurated naphthalene complexes

68. Stonard Kanyanda, Development and characterisation of pro-apoptotic drug candidates for anticancer drug discovery

69. Andrey Rogach, Strongly luminescent films fabricated by thermolysis of gold-thiolat complexes in a polymer matrix

70. Vonika Ka-Man Au, A novel class of bis-cyclometalated alkynylgold(III) complexes – synthesis, characterization, photophysics, electrochemistry and the first observation of electrogenerated chemiluminescence

71. Sepideh Javanshir, Kinetics of gold extraction from chloride solution by DBC

72. Asuncion Luquin, Organic polymer membranes dopped with gold-silver complexes as new VOCs and water sensors

73. Elena Garcia-Moreno, New strategies in the synthesis of water soluble organometallic complexes

74. Werner van Zyl, Recent developments in Gold(I) phosphinite-silsesquioxane chemistry

75. Neil Izatt, An update on the application of superLigR molecular recognition technology products to extraction and recycling of gold cyanide from mine leach and industrial streams

76. Morore Mphahlele, Elucidation of the pharmacological properties of organometallic gold(I) complexes and their anti-HIV-mechanism of action

77. Alexander Majouga, Synthesis of novel organic ligands for gold nanoparticles decoration and architectures based on them

78. Tomas Base, A fundamental study of carborane-thiol-gold interactions: toward a superior protection of silver surfaces

79. Chompunoot Wiraseranee, Recovery of gold by coprecipitation with manganese hydroxide: the advantages of reduction of gold(III) complexes to gold nanoparticles

80. Alexey Garshev, New gold precursors for Au/TiO2 catalysts

81. Stephan David Köster, Au(I) and Au(III) peptide bioconjugates as potential anti-cancer agents

82. Frankline Keter, Pyrazolyl stabilised gold, platinum and palladium complexes: Synthesis, structures and their reaction with L-cysteine

83. Marianne Engeser, Gold(I)-connected pyridines as ditopic ligands for self-assembled metallosupramolecular macrocycles – mass-spectrometric investigations

84. Ozgun Kucukoglu, Gold recovery from chloride solutions using fallen leaves
85. Hamid Sabetib, Modeling of solvent extraction of gold by Dibutyl carbitol
86. Terence Kwok-Ming Lee, Novel air-stable hexanuclear gold(I) phosphinidene complexes containing redox-active ferrocenyl units

Materials
87. Xim Bokhimi, Manufacturing of gold objects in the prehispanic mexican civilization
88. Koki Masubuchi, Blue colored gold for ornaments
89. Eléonore Gueit, Gilding process on medieval islamic glass
90. Jochen Heinrich, Benefits of amorphous 18-carat gold based alloys

Nanotechnology
91. Takeshi Kawai, Straight ultrathin gold nanowires prepared in surfactant organogels
92. Shibu Sidharth, Gold nanoparticle superlattices: A new class of SERS active substrates
93. Yasuo Iizuka, Adsorption of AuAg colloid particles on Al2O3 support accompanied by removal of PVP
94. Suguna Perumal, Kinetics study of multivalent ligands binding on size selected gold nanoparticles
95. Christophe Humbert, Morphology, organization and optical properties of Au nanoparticles embedded in Si3N4 and ZnO
96. Ewa M Cukrowska, Application of nanogold-metal oxide materials for the trapping and preconcentration of mercury
97. Annika Leifert, Size dependent cytotoxicity of gold nanoparticles
98. Richard Moutloali, Synthesis and characterisation of gold-polyaniline nanofibre composites and their biomolecular functionalisation for electrochemical biosensor applications
99. Iuliia Mukha, Photo- and thermally generated gold nanoparticles on the disperse silica surface: synthesis and properties
100. Masami Nakamoto, Amine-capped Au Nanoparticles for Printed Electronics
101. Mari Kiryu-Yamamoto, Shape-controlled synthesis of octahedral gold nanocrystals in the poly(N-vinyl-2-pyrrolidone) matrix via reduction of HAuCl4
102. Ming-Dung Fu, Superior contact for single-molecule conductance: Electronic coupling of thiolate and isothiocyanate on Pt, Pd, and Au
103. Hao Zheng, Gold clusters on thiol terminated silver films for plasmon coupling
104. Peter Bishop, Decorative gold inkjet printing
105. Paul A. Sermon, A novel route to AlOOH-chaperoned Au with unusual structure, morphology and reactivity
106. Jörg Polte, Mechanistic and kinetic studies of gold nanoparticle formation via citrate reduction using in-situ SAXS and XANES
107. Alexander Vasilkov, **Bimetallic Au-M (M=Ni or Fe) nanocomposites: the «binary» metal vapor synthesis and structure elucidation**

108. Andriy Budnyk, **Aggregation state and surface cleanliness of gold nanoparticles in silica support for SERS**

109. Alexey Kalachev, **Tribology investigation of gold and silver electroplated in presence of nano-diamonds and nano-alumina**

110. Kwong-Chak Cheung, **Electro-synthesis of Gold Nanoparticles in pyrrolidinium-based ionic liquid**

111. João Rosa, **Gold nanoparticle-based quantification of miRNA**

112. Yunho Kim, **Ultra-thin gold membrane transducer**

113. Karin Löw, **Cytotoxicity and cellular accumulation of gold nanoparticles in human colon carcinoma cells**

114. Yvonne Kohl, **Gold nanoparticles: Cytotoxicity and application as contrast agent for photoacoustic imaging**