

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/CeO₂ 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 Me³⁺ (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/SiO₂**
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-CeO₂ 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-yne**
12. Gabriela Diaz, **Surface properties of Au-Ir/TiO₂ 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/CeO₂/Al₂O₃ 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/SiO₂ catalysts**
18. John A. Moma, **The effect of gold addition to TiO₂ 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/CeO₂ PROX catalyst**
48. Christian Lothschütz, **Gold(III)bisamidato complexes: A new class of catalysts**
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 [Ru₃O(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 \equiv C and C \equiv 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 $[\text{Au}(\text{Ar},\text{H-edt})_2]^{x-}$ 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^NN 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 doped 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 AIOOH-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 cleanness 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**