



6th

HONG KONG – SHANGHAI – MÜNSTER

Joint Trilateral Symposium
on Organometallic Chemistry

09-10 May 2016

Lecture hall O1

Westfälische Wilhelms-Universität Münster
Institute of Organic Chemistry



Organized by the SFB 858 and the IRTG 2027

09 May 2016, Münster

Monday, 09.05.2016

9:00-9:10 Opening Remarks : Prof. Gerhard Erker

Session 1 (9:10-10:40) Chair: Prof. Armido Studer

9:10-9:40 **Transition Metal Porphyrin-Catalyzed Alkylcarbene Transfer Reactions**

Dr. Cong-Ying Zhou (The University of Hong Kong)

9:40-10:10 **Polymetallic and heterobimetallic complexes derived from polycarbene scaffolds**

Prof. F. Ekkehardt Hahn (University of Münster)

10:10-10:40 **Construction of Metal-Organic Frameworks from Multiple Building Units**

Prof. Qiaowei Li (Fudan University, Shanghai)

10:40 -11:00 *Coffee Break*

Session 2 (11:00-12:30) Chair: Prof. Gustavo Fernandez

11:00-11:30 **Application of Frustrated Lewis Pairs in Borylation Reactions**

Prof. Huadong Wang (Fudan University, Shanghai)

11:30-11:50 **Functionalized Alkynylgermanes: Hydrometallation and σ -Bond Activation**

Mr. Christian Honacker (University of Münster)

11:50-12:10 **Synthesis and Reactivity of New Intramolecular P/B Frustrated Lewis Pairs**

Dr. Guo-Qiang Chen (University of Münster)

12:10-12:30 **Borata-Benzofulvene: Synthesis, Structural Features and Applications**

Ms. Sonja Kohrt (University of Münster)

12:30-14:00 *Lunch Break*

Session 3 (14:00-15:30) Chair: Prof. F. Ekkehardt Hahn

14:00-14:30 **Organometallic Macrocycles, Cages**

Prof. Guoxin Jin (Fudan University, Shanghai)

14:30-15:00 **The Challenge of Palladium-Catalyzed Alpha-Arylation of Ketones**

Prof. Michael Fuk-Yee Kwong (The Polytechnic University of Hong Kong)

15:00-15:30 **Catalytic Alkane Dehydrogenation and Relevant Transformations**

Prof. Zheng Huang (Shanghai Institute of Organic Chemistry)

15:30-15:50 *Coffee Break*



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Session 4 (15:50-17:40) Chair: Prof. Huadong Wang

- 15:50-16:20 **Influence of Metal Fragments on Supramolecular Polymerization Processes**
Prof. Gustavo Fernández (University of Münster)
- 16:20-16:50 **Diotopic Pyridine-Containing Ligands for Supramolecular Coordination Chemistry**
Prof. Hoi-Lun Kwong (City University of Hong Kong)
- 16:50-17:10 **σ -Alkynyl Iridium(III) Porphyrin-Catalyzed Carbene Transfer/Insertion Reactions**
Dr. Vanessa Kar-Yan Lo (The University of Hong Kong)
- 17:10-17:40 **Catalytic Oxidation of Water and Organic Substrates Based on d^0 Metal Nitrido Oxo and 7-Coordinate Metal Oxo Active Intermediates**
Prof. Tai-Chu Lau (City University of Hong Kong)

Thursday, 10 May 2016

Session 6 (9:00-10:30) Chair: Prof. Frank Glorius

- 9:00-9:30 **Palladium-catalyzed Trifluoroethylation and Trifluoromethoxylation**
Prof. Guosheng Liu (Shanghai Institute of Organic Chemistry)
- 9:30-10:00 **Novel Robust Self-support Catalysts: Synthesis, Characterization and Applications**
Prof. Tao Tu (Fudan University, Shanghai)
- 10:00-10:30 **Transition Metal Catalyzed B-H Activation and Functionalization of o-Carboranes**
Prof. Zouwei Xie (The Chinese University of Hong Kong)

10:30-10:50 *Coffee Break*

Session 7 (10:50-12:30) Chair: PD Dr. Ulrich Hennecke

- 10:50-11:10 **Modular bidentate hybrid NHC-thioether ligands and long-chain NHCs - versatile ligands for the stabilization of nanoparticles**
Mr. Andreas Rühling (University of Münster)
- 11:10-11:30 **N-Heterocyclic carbene catalyzed enantioselective annulations**
Dr. Chang Guo (University of Münster)
- 11:30-12:00 **Low-coordinate Iron Complexes with NHC Ligation: Synthesis, Reactivity and Catalytic Application**
Prof. Liang Deng (Shanghai Institute of Organic Chemistry)
- 12:00-12:30 **A Robust and Efficient Molecular Catalyst Based on Earth-Abundant Metal Ion for Catalytic CO₂ Reduction**
Dr. Sharon Lai-Fung Chan (The Polytechnic University of Hong Kong)



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12:30-13:30 *Lunch Break*

Session 8 (13:30-15:10) Chair: Prof. Bart Jan Ravoo

13:30-13:50 **Lessons from Natural Product Synthesis and Methodology Development**

Dr. Xiao-Shui Peng (The Chinese University of Hong Kong)

13:50-14:20 **Scandium Imido and Alkylidene Complexes: Synthesis, Structure and Reactivity**

Prof. Yaofeng Chen (Shanghai Institute of Organic Chemistry)

14:20-14:50 **Organometallic Frameworks: Formation, Modification and Application**

Prof. Yingfeng Han (Fudan University, Shanghai)

14:50-15:10 **Novel electron-catalyzed radical cascade reactions**

Mr. Dirk Leifert (University of Münster)

15:10-15:30 *Coffee Break*

Session 9 (15:30-17:10) Chair: Prof. Gerhard Erker

15:30-16:00 **Phosphorescent Pd(II) Complexes**

Prof. Chi-Ming Che (The University of Hong Kong)

16:00-16:20 **Regio- and Stereoselective Cyanotriflation of Alkynes Using Aryl(cyano)iodonium Triflates**

Dr. Xi Wang (University of Münster)

16:20-16:40 **Artificial Transmembrane Channels from Unimolecular Organic Nanotubes**

Prof. Junli Hou (Fudan University, Shanghai)

16:40-17:10 **Self-assembly of functional nanoparticles**

Prof. Bart Jan Ravoo (University of Münster)

17:10 Closing Remarks

19:00 Conference Dinner at *I Galetti*

