

Wuhan Conference on Green Chemistry and Sustainable Catalysis-2018

Nov 24th-27th, 2018 (Wuhan, China)

School of Chemistry and Chemical Engineering,
Huazhong University of Science & Technology

Conference Chair: Prof. Yanlong Gu and Prof. Rongzhen Liao

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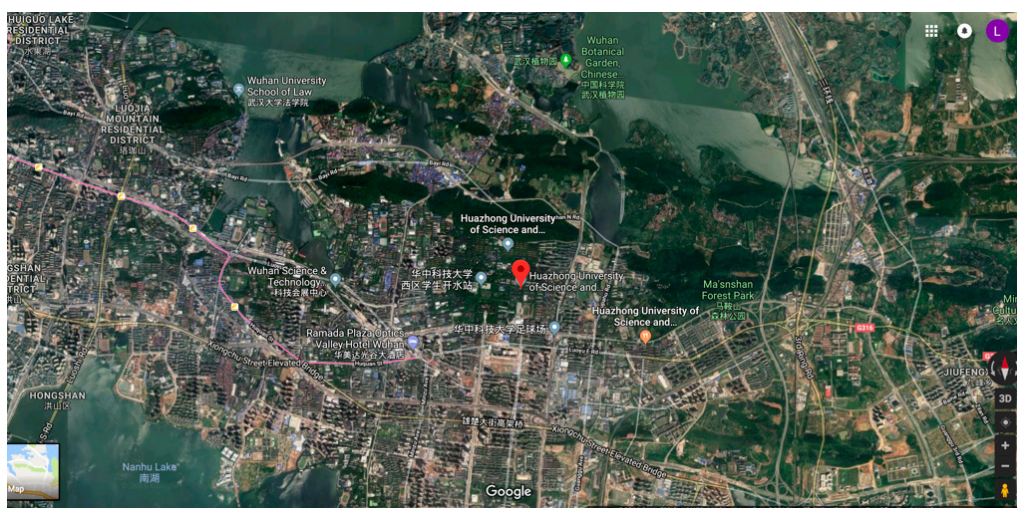
Program:

Nov 24^h, 2018: Registration (Lobby of Building 8, International Academic Exchange Center, Huazhong University of Science & Technology)

Nov 24th-Nov 27th, 2018: Conference

Nov 27th-Nov 28th, 2018: Delegate leave

Conference venue: Conference hall (3rd floor) of Building 8, International Academic Exchange Center, Huazhong University of Science & Technology
(About one hour from Tianhe Airport of Wuhan)



Accommodation: Building 8, International Academic Exchange Center, Huazhong University of Science & Technology

The average temperature of 24th-27th November in Wuhan is ~19-22 °C (day time). In the night, the minimum temperature is ~10 °C.

More information about Wuhan can be found [here](#).

Conference program:

Nov 25th, 2018

8:30-8:45	Opening Ceremony
8:45-8:50	Group photo

Session Chair: Fahmi Himo

8:50-9:20	Weihai Fang (Beijing Normal University) Photocatalytic nitrogen reduction to ammonia with water on Rutile TiO ₂ (110) Surface: new insights into the mechanism from the first-principles calculation
9:20-9:50	Agustí Lledós (Universitat Autònoma de Barcelona, Spain) Cu-catalyzed enantioselective hydration of alkenes: from organometallics to an artificial metallohydratase
9:50-10:20	Jun Li (Tsinghua University) Toward green chemistry and sustainable catalysis with single-atom catalysts (SAC)
10:20-10:40	Coffee break

Session Chair: Fengyu Zhao

10:40-11:10	Zhimin Liu (Beijing Institute of Chemistry – CAS) Transformation of carbon dioxide into chemicals under mild condition
11:10-11:40	Claude De Bellefon (CPE Lyon – CNRS) Structured reactors for demanding reactions
11:40-12:10	Julien Leclaire (Claude Bernard Lyon 1 University) Dynamic covalent chemistry at work: simultaneous CO ₂ capture and metal purification from waste streams

Lunch Break

Session Chair: Yves Queneau

14:00-14:30	Masahiko Arai (Hokkaido University / Changchun Institute of Applied Chemistry – CAS) Multiphase catalytic reactions controlled by carbon dioxide
14:30-15:00	Luigi Vaccaro (University of Perugia, Italia) Developing synthetic tools for a green organic synthesis
15:00-15:30	Lemaire Marc (Université Lyon 1 / INSA Lyon / CPE Lyon) Synthesis and evaluation of new Bio-sourced and natural surfactants
15:30-16:00	Anne Giroir-Fendler (Université de Lyon / Université Lyon 1 CNRS)

	Perovskite catalysts for air pollutant abatement
16:00-16:20	Coffee break
Session Chair: Weihai Fang	
16:20-16:50	Feliu Maseras (The Barcelona Institute of Science and Technology, Spain) Our first steps in the computational modeling of mechanochemical processes
16:50-17:20	Xue-Qing Gong (East China University of Science and Technology) Activity and selectivity of oxidative coupling of methane on doped La ₂ O ₃ catalysts: A density functional theory study
17:20-17:50	Zhipan Liu (Fudan University, China) Neural network potential for future simulation: LASP code, progress and next step
Dinner at Bai Jing Yuan	

Nov 26th 2018

Session Chair: Ai Qin Wang

8:00-8:30	Fengyu Zhao (Changchun Institute of Applied Chemistry – CAS) Utilization of CO ₂ as building blocks to synthesize chemicals and polymers
8:30-9:00	Marek Tobiszewski (Gdansk University of Technology, Poland) Multicriteria decision analysis for green chemistry
9:00-9:30	Jean-François Gerard (Université de Lyon / INSA Lyon) Combining supramolecular and covalent crosslinks in polymer networks
9:30-10:00	Yves Queneau (Université de Lyon, CNRS, Université Lyon 1, INSA Lyon) Carbohydrates: a mine for the design of bio-based fine chemicals
10:00-10:20	Coffee break
Session Chair: Jing Ma	
10:20-10:50	Shengfa Ye (Max-Planck Institute for Coal Research) Characterization of novel intermediates derived from dioxygen activation
10:50-11:20	Wei-Xue Li (University of Science and Technology of China) Activity and stability of supported metal nanocatalysts

11:20-11:50	Xin Xu (Fudan University, China) Towards accurate and efficient microkinetic modelling in heterogeneous catalysis
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Lunch Break

Session Chair: Guochuan Yin

14:00-14:30	Bruce H. Lipshutz (University of California, Santa Barbara, CA USA) Transitioning organic synthesis to a water world. Faster, better, cheaper, & environmentally responsible chemistry
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14:30-15:00	Aiqin Wang (Dalian Institute of Chemical Physics – CAS) Selective hydrogenolysis of glycerol to 1,3-propanediol over Pt-W based catalysts
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15:00-15:30	Bruno Andrioletti (Université Claude Bernard-Lyon 1) Towards the development of more sustainable oxidation reactions
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15:30-16:00	Edith Lecomte-Norrant (UCB Biopharma / ULB/ULg, Belgium) Exploring the advances and challenges for innovation in green chemistry for the pharmaceutical world of tomorrow
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16:00-16:20	Coffee break
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Session Chair: Xin Xu

16:20-16:50	Shuhua Li (Nanjing University, China) Automatic reaction pathway search via combined molecular dynamics and coordinate driving method
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16:50-17:10	Gregori Ujaque (Universitat Autoònoma de Barcelona, Spain) Understanding and predicting transition metal catalyzed regioselective hydroamination of alkenes
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17:10-17:40	Jing Ma (Nanjing University, China) Theoretical and experimental study of visible light promoted chemical reactions
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17:40-18:10	Fahmi Himo (Stockholm University) Modeling synergistic catalysis using DFT calculations and kinetics simulations
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Diner at Yi He Shang Jing

Nov 27th 2018

Session Chair: Lemaire Marc

8:00-8:30	Shu Kobayashi (The University of Tokyo)
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	Novel catalyst systems in synthetic organic chemistry towards sustainable society
8:30-9:00	Pascal Fongarland (CPE Lyon – CNRS) Compartmented reactors to optimize synergic catalytic systems: from liquid-liquid reactions to hybrid catalysis
9:00-9:30	Olivier Piva (Université de Lyon / Université Lyon 1 / CNRS) Photochemistry and metathesis applied to the synthesis of natural products
9:30-10:00	Shi Jiang (Université de Poitiers, CNRS) Interesting role of ChCl in the conversion of carbohydrates
10:00-10:20	Coffee break
Session Chair: Agustí Lledós	
10:20-10:50	Zhenyang Lin (The Hong Kong University of Science and Technology) Transition metal catalyzed reactions of carbon dioxide - computational insight
10:50-11:20	Evert-Jan Meijer (University of Amsterdam) Modeling catalytic reactions in protic solvents
11:20-11:50	Per Siegbahn (Stockholm University) A systematic DFT approach for studying redox reactions
Closing remarks	
Lunch	