

Conference Programme

for Supergreen 2019

Locations

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| Conference Locations | Venue A, Lecture Hall of SUST Library | Venue B, Southwest Gate of SUST Library (opposite the Venue A) |
| Lunch and Dinner Location | Xinyuan Cafeteria (SUST Campus) | |
| Coffee Break Location | Lobby (Ground Floor of SUST Library) | |

Registration

| Date | Time | Location |
|------------------------------|--------------------|--|
| Sep. 27, Friday | 14:00-21:00 | Xi'an Xianglong Grand Hotel |
| Sep. 28, Saturday | 8:00-17:00 | North Gate of SUST Library |

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| PL, Plenary Lecture | IL, Invited Lecture | OL, Oral Presentation |
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Saturday Morning, September 28, Venue A- Lecture Hall

(9月28日周六上午, 分会场 A-报告大厅)

| Time | Titles/Speakers | Location |
|--------------------------|--|-----------------------------------|
| 08:30-09:10 | Opening Ceremony & Photograph | Lecture Hall (Venue A) |
| Plenary Lectures | Chair: Motonobu Goto | |
| 09:10-09:45 | PL-01: Beyond critical point: Journey to a new world <i>Youn-Woo Lee, Seoul National University, Republic of Korea</i> | |
| 09:45-10:20 | PL-02: Supercritical CO₂ for regenerative medicine <i>Dar-Jen Hsieh, ACRO Biomedical Co., Ltd., Taiwan, China</i> | |
| 10:20-10:40 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Yangmin Ma & Fangming Jin | Lecture Hall (Venue A) |
| 10:40-11:00 | IL-A-01: Flow production of nanosuspension in supercritical CO₂ <i>Yusuke Shimoyama, Tokyo Institute of Technology, Japan</i> | |
| 11:00-11:20 | IL-A-02: Catalysis in dense carbon dioxide <i>Liang-Nian He, Nankai University, China</i> | |
| 11:20-11:40 | IL-A-03: SUPERMET project: Recovery of precious metals from spent catalysts by supercritical CO₂ extraction assisted by polymers <i>Patrick Lacroix-Desmazes, University of Montpellier, France</i> | |
| 11:40-12:00 | IL-A-04: Deoxygenation and hydrogenation of low-grade lipids in near-critical water <i>Jie Fu, Zhejiang University, China</i> | |
| 12:00-14:00 | Lunch | Xinyuan Cafeteria |

Saturday Morning, September 28, **Venue B**

(9月28日周六上午, **分会场 B**)

| Time | Titles/Speakers | Location |
|--------------------------|---|-----------------------------------|
| 08:30-09:10 | Opening Ceremony & Photograph | |
| Plenary Lectures | Chair: Motonobu Goto | Lecture Hall (Venue A) |
| 09:10-09:45 | PL-01: Beyond critical point: Journey to a new world <i>Youn-Woo Lee, Seoul National University, Republic of Korea</i> | |
| 09:45-10:20 | PL-02: Supercritical CO ₂ for regenerative medicine <i>Dar-Jen Hsieh, ACRO Biomedical Co., Ltd., Taiwan, China</i> | |
| 10:20-10:40 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Hirohisa Uchida & Jun Li | Venue B |
| 10:40-11:00 | IL-B-01: Applications of SFE and SF-SMB for the extraction and separation of natural bio-active ingredients <i>Ming-Tsai Liang, I-Shou University, Taiwan, China</i> | |
| 11:00-11:20 | IL-B-02: The promoting mechanism of scCO ₂ in the catalytic reactions <i>Fengyu Zhao, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences</i> | |
| 11:20-11:40 | IL-B-03: Thermal stability and decomposition behavior of HFO-1234ze(E) as a working fluid in the supercritical organic Rankine cycle <i>Aye Aye Myint, Sungkyunkwan University, Republic of Korea</i> | |
| 11:40-12:00 | IL-B-04: Synthesis of carbon-based composites in supercritical fluids <i>Zhenyu Sun, Beijing University of Chemical Technology, China</i> | |
| 12:00-14:00 | Lunch | Xinyuan Cafeteria |

Saturday Afternoon, September 28, Venue A- Lecture Hall

(9月28日周六下午, 分会场 A-报告大厅)

| Time | Titles/Speakers | Location |
|--------------------------|--|-----------------------------------|
| Parallel Sessions | Session Chairs: Yusuke Shimoyama & Zhimin Liu | |
| 14:00-14:20 | IL-A-05: Synthesis of biofuel and biochemical supercritical in fluids <i>Jaehoon Kim, Sungkyunkwan University, Republic of Korea</i> | Lecture Hall (Venue A) |
| 14:20-14:40 | IL-A-06: Some applications of ionic liquids and supercritical fluids <i>Jianzhong Yin, Dalian University of Technology, China</i> | |
| 14:40-15:00 | IL-A-07: Fabrication of modify nanocrystalline titanium dioxide solar cells using supercritical carbon dioxide <i>Shen-Kung Liao, Feng Chia University, Taiwan, China</i> | |
| 15:00-15:20 | IL-A-08: Thermodynamics of ethanol dissolution and new insights into polypropylene foaming at low pressures <i>Ruosong Li, Northwest University, China</i> | |
| 15:20-15:40 | IL-A-09: Eutectic liquids <i>Tiancheng Mu, Renmin University of China</i> | |
| 15:40-15:55 | OL-A-01: A feasibility study on the separation of astaxanthin by supercritical fluid simulated moving bed <i>Tai Thi Ngoc Dong, I-Shou University, Taiwan, China</i> | |
| 15:55-16:15 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Zhong-Wen Liu & Qun Xu | |
| 16:15-16:35 | IL-A-10: Green exfoliation of graphite into pristine graphene in supercritical CO ₂ <i>Yaping Zhao, Shanghai Jiao Tong University, China</i> | Lecture Hall (Venue A) |
| 16:35-16:55 | IL-A-11: Study on the structures of coal and oil shale with supercritical ethanol <i>Weize Wu, Beijing University of Chemical Technology, China</i> | |
| 16:55-17:15 | IL-A-12: Controlled polymerization of fluorinated monomers in supercritical carbon dioxide <i>Jian-Gang Chen, Shaanxi Normal University, China</i> | |
| 17:15-17:35 | IL-A-13: Activation effects of solvents on the novel Hf-graphite oxide catalytic transfer hydrogenation catalyst <i>Huacong Zhou, Inner Mongolia University of Technology, China</i> | |
| 17:35-17:50 | OL-A-02: Industrial combined applications of supercritical CO ₂ extraction and molecular distillation for natural products <i>Li Zhu, Guangzhou Hao Li Technology Co, Ltd., China</i> | |
| 18:00-20:00 | Banquet | Xinyuan Cafeteria |

Saturday Afternoon, September 28, Venue B

(9月28日周六下午, 分会场B)

| Time | Titles/Speakers | Location |
|--------------------------|---|--------------------------|
| Parallel Sessions | Session Chairs: Minhua Zhang & Yaping Zhao | |
| 14:00-14:20 | IL-B-05: Chemical recycling for polymers in hydrothermal solutions <i>Toshitaka Funazukuri, Chuo University, Japan</i> | Venue B |
| 14:20-14:40 | IL-B-06: One-pot process of supercritical transesterification and partial hydrogenation using Pd, Cu, and Ni without H ₂ <i>Hwi-Sung Lee, Seoul National University, Republic of Korea</i> | |
| 14:40-15:00 | IL-B-07: Mixing and kinetics study of supercritical hydrothermal synthesis <i>Akira Yoko, Tohoku University, Japan</i> | |
| 15:00-15:20 | IL-B-08: Open-chain crown ether bridged diphosphate for metal ions extraction in scCO ₂ <i>Zongbi Bao, Zhejiang University, China</i> | |
| 15:20-15:40 | IL-B-09: Synthesis of C ₂₊ products using CO ₂ and H ₂ <i>Qingli Qian, Institute of Chemistry, Chinese Academy of Sciences</i> | |
| 15:40-15:55 | OL-B-01: Synthesis of fatty acid methyl esters from <i>Schizochitrium limacinum</i> microalgae using various supercritical fluids <i>V. Mani Rathnam, Indian Institute of Science Bengaluru</i> | |
| 15:55-16:15 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Toshitaka Funazukuri & Liang-Nian He | |
| 16:15-16:35 | IL-B-10: Developing in high pressure/visible supercritical CO ₂ vessel and in-situ monitoring technology <i>Zhao-Tie Liu, Shaanxi University of Science & Technology, China</i> | Venue B |
| 16:35-16:55 | IL-B-11: A simulation approach on the self-assembly behavior of block copolymer in gas-expanded liquids <i>Hongping Li, Zhengzhou University, China</i> | |
| 16:55-17:15 | IL-B-12: Synergistic conversion of biomass and carbon dioxide into chemicals or fuels under hydrothermal conditions <i>Fangming Jin, Shanghai Jiao Tong University, China</i> | |
| 17:15-17:35 | IL-B-13: Supercritical CO ₂ dyeing for polyester and its industrialization <i>Huanda Zheng, Dalian Polytechnic University, China</i> | |
| 17:35-17:50 | OL-B-02: Novel green solvents: Physical properties and challenges <i>Yu Chen, Langfang Normal University, China</i> | |
| 18:00-20:00 | Banquet | Xinyuan Cafeteria |

Sunday Morning, September 29, Venue A- Lecture Hall

(9月29日周日上午, 分会场 A-报告大厅)

| Time | Titles/Speakers | Location |
|--------------------------|---|-----------------------------------|
| Parallel Sessions | Session Chairs: Ming-Tsai Liang & Jianzhong Yin | |
| 08:30-08:50 | IL-A-14: Preparation of high dispersive metal via supercritical fluid assistance and its catalytic performance <i>Minhua Zhang, Tianjin University, China</i> | Lecture Hall (Venue A) |
| 08:50-09:10 | IL-A-15: Control of dispersibility for organically-modified nanoparticles <i>Takaaki Tomai, Tohoku University, Japan</i> | |
| 09:10-09:30 | IL-A-16: Manipulation of polymer foaming process in supercritical carbon dioxide <i>Ling Zhao, East China University of Science and Technology</i> | |
| 09:30-09:50 | IL-A-17: Probe on ultrafine cerium oxide nanocrystals by aberration corrected scanning transmission electron microscopy <i>Xiaodong Hao, Shaanxi University of Science & Technology, China</i> | |
| 9:50-10:10 | IL-A-18: The application of fused silica capillary reactor in supercritical fluids <i>Zhiyan Pan, Zhejiang University of Technology, China</i> | |
| 10:10-10:25 | OL-A-03: Preparation and catalytic performance of highly dispersed Pt/Al ₂ O ₃ catalysts by supercritical fluid deposition <i>Guochao Yang, Tianjin University, China</i> | |
| 10:25-10:40 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Suoqi Zhao & Fengyu Zhao | |
| 10:40-11:00 | IL-A-19: Supercritical fluid deposition of metal films to fabricate terahertz communication devices <i>Takeshi Momose, The University of Tokyo, Japan</i> | Lecture Hall (Venue A) |
| 11:00-11:20 | IL-A-20: Particle design of active pharmaceutical ingredient using supercritical fluid technology <i>Chie-Shaan Su, National Taipei University of Technology, Taiwan, China</i> | |
| 11:20-11:40 | IL-A-21: Building of lateral/vertical 1T-2H MoS ₂ /Au heterostructure for enhanced photo electrocatalysis and surface enhanced Raman scattering <i>Qun Xu, Zhengzhou University, China</i> | |
| 11:40-11:55 | OL-A-04: Effects of structures and components of core materials on preparation of natural flavors liquid nanocapsules <i>Xuan Liu, Shaanxi University of Science & Technology, China</i> | |
| 11:55-14:00 | Lunch | Xinyuan Cafeteria |

Sunday Morning, September 29, Venue B

(9月29日周日上午, 分会场B)

| Time | Titles/Speakers | Location |
|--------------------------|--|--------------------------|
| Parallel Sessions | Session Chairs: Jaehoon Kim & Zhao-Tie Liu | |
| 08:30-08:50 | IL-B-14: Novel fabrication technique of organic thin film transistors (OTFTs) by rapid expansion of supercritical solutions (RESS) using carbon dioxide <i>Hirohisa Uchida, Kanazawa University, Japan</i> | Venue B |
| 08:50-09:10 | IL-B-15: Catalytic transformation of CO ₂ into chemicals <i>Zhimin Liu, Institute of Chemistry, Chinese Academy of Sciences</i> | |
| 09:10-09:30 | IL-B-16: New routes for stabilization of MOFs <i>Li Peng, Xiamen University, China</i> | |
| 09:30-09:50 | IL-B-17: Poly (ionic liquid)s from supercritical drying as ion exchange materials for pollutant removal <i>Jun Li, Xiamen University, China</i> | |
| 9:50-10:10 | IL-B-18: The opportunities of synchrotron techniques for novel catalysts synthesized in supercritical fluids <i>Jing Zhang, Institute of High Energy Physics, Chinese Academy of Sciences</i> | |
| 10:10-10:25 | OL-B-03: Metal-free carbon catalyst for aerobic oxidation of benzyl alcohol to benzaldehyde in water <i>Weitao Wang, Shaanxi University of Science & Technology, China</i> | |
| 10:25-10:40 | Coffee Break | Lobby |
| Parallel Sessions | Session Chairs: Patrick Lacroix-Desmazes & Ling Zhao | |
| 10:40-11:00 | IL-B-19: Preparation of carbon materials by supercritical fluids extraction and reaction <i>Suoqi Zhao, China University of Petroleum-Beijing</i> | Venue B |
| 11:00-11:20 | IL-B-20: Methane conversion in low-temperature chemical looping method using high oxygen storage capacity nanomaterials <i>Gimyeong Seong, Tohoku University, Japan</i> | |
| 11:20-11:35 | OL-B-04: Hydrogenation of 3-nitrostyrene by Co-N-C in sub or near critical CO ₂ <i>Dan Zhou, Dalian University of Technology, China</i> | |
| 11:35-11:50 | OL-B-05: Preparation of nano-sized catalysts and their performance for hydrogenation <i>Wen Yu, Harbin Institute of Technology, Shenzhen, China</i> | |
| 11:50-14:00 | Lunch | Xinyuan Cafeteria |

Sunday Afternoon, September 29, Venue A-Lecture Hall

(9月29日周日下午, Plenary 会场 A-报告大厅)

| Time | Titles/Speakers | Location |
|-------------------------|--|-------------------------------|
| Plenary Lectures | Chair: Buxing Han | |
| 14:00-14:35 | PL-03: Supercritical route for nano catalyst <i>Tadafumi Adschiri, Tohoku University, Japan</i> | Lecture Hall (Venue A) |
| 14:35-15:10 | PL-04: Industrial application of supercritical reaction <i>Haoran Li, Zhejiang University, China</i> | |
| 15:10-15:30 | Coffee Break | Lobby |
| Plenary Lectures | Chair: Tadafumi Adschiri | |
| 15:30-16:05 | PL-05: Perspectives on the supercritical fluid technologies for phytochemicals <i>Motonobu Goto, Nagoya University, Japan</i> | Lecture Hall (Venue A) |
| 16:05-16:40 | PL-06: Properties of green solvents and their applications in green chemistry <i>Buxing Han, Institute of Chemistry, Chinese Academy of Sciences</i> | |
| 16:40-17:00 | Closing Ceremony | |
| 17:30-20:00 | Dinner | Xinyuan Cafeteria |