

Plenary Lectures

Room A:

PL1 10:00, July 25, Monday

Single-atom Catalysis: Progress, Opportunity and Challenge	Tao ZHANG	Dalian Institute of Chemical Physics
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PL2 18:00, July 25, Monday

Catalysis using Gold Containing Nanomaterials	Graham J. HUTCHINGS	Cardiff University
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PL3 9:00, July 26, Tuesday

Heterogeneous Catalysis for Valorization of Cellulose and Chitin	Atsushi FUKUOKA	Hokkaido University
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PL4 18:00, July 26, Tuesday

Activating N ₂ - the Haber-Bosch Process and Beyond	Jens K. NØRSKOV	Technical University of Denmark
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PL5 9:00, July 27, Wednesday

Development of Homogeneous Olefin Polymerization Catalysts with Tunable Selectivity (tentative)	Jerzy KLOSIN	The Dow Chemical Company
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PL6 18:00, July 27, Wednesday

Oxygenate-mediated Conversion of CO ₂ to Light Olefins and Fuels - Fundamental and Applied Aspects	Unni OLSBYE	University of Oslo
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PL7 9:00, July 28, Thursday

Toward Industrial Applications of Photocatalytic and Photoelectrochemical Systems for Environmental Improvement and Energy Recycling (tentative)	Takeshi MORIKAWA	Toyota Central R&D Laboratories
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PL8 16:00, July 28, Thursday

Challenges in Refining and Petrochemical Catalysis	Omer Refa KOSEGLU	Saudi Aramco
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PL9 9:00, July 9, Thursday

Design of Nanostructured Catalysts for Hydrogen-carbon Cycles and Environmental Uses	Hiroshi YAMASHITA	Osaka University
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Keynote Lectures

KL1	Room D, 11:30, July 25, Monday		
Controlling reactivity for electrochemical reduction through mass transport and charged polymer overlayers		Adam Z. WEBER	Lawrence Berkeley National Laboratory
KL2	Room B, 12:10, July 25, Monday		
Photocatalytic water splitting and CO ₂ fixation as artificial photosynthesis		Akihiko KUDO	Tokyo University of Science
KL3	Room E, 14:30, July 25, Monday		
Effect of hydrogen spillover on acidic properties of silica-supported tungsten oxide catalyst		Piyasan PRASERTHDAM	Chulalongkorn University
KL4	Room A, 16:10, July 25, Monday		
Zeolite catalysis contribution to a sustainable chemical industry		Andrei-Nicolae PARVULESCU	BASF SE
KL5	Room A, 16:50, July 25, Monday		
Catalysis for a more sustainable chemistry		Rhett KEMPE	Universität Bayreuth
KL6	Room A, 10:30, July 26, Tuesday		
Research and development of automotive materials and parts using material digital transformation		Hirohito HIRATA	Toyota Motor Corporation
KL7	Room A, 11:10, July 26, Tuesday		
Advanced FCC catalyst design for chemical refinery		Takaki MIZUNO	JGC Catalysts and Chemicals
KL8	Room A, 13:30, July 26, Tuesday		
Carbon nitride photocatalysts for overall water splitting		Xinchen WANG	Fuzhou University
KL9	Room E, 14:10, July 26, Tuesday		
A new class of zeolite catalyst with location and state of active sites controlled		Toshiyuki YOKOI	Tokyo Institute of Technology
KL10	Room E, 14:50, July 26, Tuesday		
Tailoring acid catalysts for sustainable bio-refining		Jun HUANG	The University of Sydney
KL11	Room A, 16:10, July 26, Tuesday		
Heterogeneous catalysis concepts for a sustainable future		Jorge GASCON	King Abdullah University of Science and Technology
KL12	Room D, 16:50, July 26, Tuesday		
Concerto catalysis of transition metals and zeolite microporous sieves		Dirk E. De VOS	KU Leuven
KL13	Room B, 10:30, July 27, Wednesday		
Biocatalysts to widen the feedstock pool		Jennifer HOLMGREN	LanzaTech
KL14	Room B, 11:30, July 27, Wednesday		
Development for hydrogen storage and transportation technology by using novel dehydrogenation catalyst in MCH-LOHC system		Yoshimi OKADA	Chiyoda Co.
KL15	Room C, 13:30, July 27, Wednesday (APCAT)		
Solar fuel production via artificial photosynthesis		Can LI	Dalian Institute of Chemical Physics, Chinese Academy of Sciences
KL16	Room C, 14:10, July 27, Wednesday (APCAT)		
Design Strategy for Developing New Catalysts using Nanotechnology and DFT Calculation		Kwan-Young LEE	Korea University
KL17	Room B, 15:30, July 27, Wednesday		
Challenges and solutions for relevant laboratory protocols for FCC catalyst testing		Marius KIRCHMANN	hte GmbH

KL18	Room E, 15:30, July 27, Wednesday		
Heterogeneous Atomic Catalysts Overcoming the Limitations of Single-Atom Catalysts		<u>Hyunjoon LEE</u>	Korea Advanced Institute of Science and Technology
KL19	Room C, 16:10, July 27, Wednesday (APCAT)		
TBA		<u>Sibudjing KAWI</u>	National University of Singapore
KL20	Room A, 16:30, July 27, Wednesday		
Bridging the gap between single-site and industrial catalysts via surface organometallic chemistry		<u>Christophe COPÉRET</u>	ETH Zürich
KL21	Room C, 16:50, July 27, Wednesday		
The role of acidity in catalytic redox reactions		<u>Michael STOCKENHUBER</u>	The University of Newcastle
KL22	Room C, 10:30, July 28, Thursday		
Thermochemical properties of reactive hydrogen and its catalytic consequences in hydrogenation and hydrogenolysis catalysis		<u>Ya-Huei Cathy CHIN</u>	University of Toronto
KL23	Room B, 11:10, July 28, Thursday		
Fully exposed palladium cluster catalysts enable hydrogen production from nitrogen heterocycles		<u>Ding MA</u>	Peking University
KL24	Room B, 13:30, July 28, Thursday		
Controlling reaction routes and product selectivity in C1 chemistry		<u>Ye WANG</u>	Xiamen University
KL25	Room E, 14:10, July 28, Thursday		
Advancing catalysis via nanoscale engineering		<u>Javier Pérez Ramírez RAMÍREZ</u>	ETH Zürich
KL26	Room C, 14:50, July 28, Thursday		
Coupled operando EPR as a powerful tool for mechanistic investigations of catalytic reactions		<u>Jabor RABEAH</u>	Leibniz Institute for Catalysis at the University of Rostock
KL27	Room A, 10:30, July 29, Friday		
Valorization of polyolefins via catalytic upcycling		<u>Susannah SCOTT</u>	University of California, Santa Barbara
KL28	Room B, 11:10, July 29, Friday		
Non-reductive CO ₂ conversion to carbonates, carbamates, and ureas catalyzed by CeO ₂		<u>Keiichi TOMISHIGE</u>	Tohoku University
KL29	Room D, 13:30, July 29, Friday		
Design of efficient photocatalysts and electrocatalysts for oxygen evolution and CO ₂ reduction reactions		<u>Rong XU</u>	Nanyang Technological University
KL30	Room B, 14:10, July 29, Friday		
Low temperature catalysis by surface protonics		<u>Yasushi SEKINE</u>	Waseda University
KL31	Room D, 14:50, July 29, Friday		
Opportunities of ball milling in catalysis		<u>Ferdi SCHÜTH</u>	Max-Planck-Institut für Kohlenforschung

Invited Lectures

IL1	Room C, 14:50, July 27, Wednesday (APCAT)		
Photo-Fenton enhanced twin-reactor for green hydrogen production and organic wastewater degradation simultaneously		Jeffrey Chi-Sheng Wu	National Taiwan University

IL2	Room C, 15:10, July 27, Wednesday (APCAT)		
Visible-light driven synthesis for ingredient of biodegradable polymer with the system of water-soluble zinc porphyrin and platinum nano-particle	Yutaka Amao		Osaka City University
IL3	Room C, 15:50, July 27, Wednesday (APCAT)		
Development of catalysts for the conversion of biomass-derived compounds into value added chemicals	M.Lakshmi Kantam		Peking University Institute of Chemical Technology
IL4	Room C, 16:10, July 27, Wednesday (APCAT)		
Rh Supported ionic liquid phase and nano Au catalysts for the production of propanal/propanol from ethylene, hydrogen and CO/CO ₂	Le Minh Thang		Hanoi University of Science and Technology