Plenary Lectures (Room A) (Japan Standard Time)									
	July 30th (Sat) 16:30-17:	30 Room A							
PL-1	Investigating non thermal plasma catalysis using in-situ methods	University of Manchester							
July 31st (Sun) 9:00-10:00 Room A									
PL-2	Porous materials in CO2 capture & conversion	Christopher W. Jones	Georgia Institute of Technology						
	Aug 1st (Mon) 9:00-10:0	00 Room A							
PL-3	Progress and future of automotive exhaust gas purification catalysts: materials, parts and R&D methods	Hirohito Hirata	Toyota Motor Corporation						
Aug 2nd (Tue) 9:00-10:00 Room A									
PL-4	Studies on environmental catalysis for haze and ozone precursors: NO _x and VOCs	Junhua Li	Tsinghua University						

Plenary Lecture Speakers



Chris Hardacre The University of Manchester UK



Hirohito Hirata Toyota Motor Corporation Japan



Christopher W. Jones Georgia Institute of Technology USA



Junhua Li Tsinghua University China

Keynote Lectures (Room A-D) (Japan Standard Time)									
July 31st (Sun) 10:20-11:00 Room A									
KN-1	Why Cu-zeolites are efficient and stable catalysts for NH3-SCR of NOx	Hong He	Chinese Academy of Sciences						
	July 31st (Sun) 11:20-12	:00 Room B							
KN-2	Novel low-temperature emission control catalysts for lean and stoichiometric applications	Todd J. Toops	Oak Ridge National Laboratory						
	July 31st (Sun) 13:00-13	:40 Room A							
KN-3	Controlling catalytic processes via catalytic acid and redox site manipulation for environmental applications	Michael Stockenhuber The Universi of Newcastl							
	July 31st (Sun) 14:40-15	:20 Room C							
KN-4	Reaction pathways of catalytic lignin conversion in ethanol	Yongdan Li	Aalto University						
	July 31st (Sun) 16:50-17	:30 Room D							
KN-5	Scale-up and application of MOF "CALF-20" for CO2 capture from Flue Gases	Stefan Marx BAFS							
	Aug 1st (Mon) 10:20-11:0	00 Room B	·						
KN-6	Novel method to overcome the sulfur poisoning of vanadia catalyst for NO _x removal	Do Heui Kim	Seoul National University						
	Aug 1st (Mon) 13:00-13:4	10 Room A							
KN-7	From deNO _x to reNO _x : NH ₃ generation by use of NO in combustion exhaust	Masaru Ogura The Univer of Toky							
Aug 1st (Mon) 14:40-15:20 Room B									
KN-8	Functional MOFs and their derivates for clean energy production and waste conversion	Kevin C. W. Wu	National Taiwan University						

Keynote Lectures								
(Room A-D) (Japan Standard Time)								
	Aug 1st (Mon) 16:50-17:	30 Room C						
KN-9	Catalysis for the net zero emission challenge	Gabriele Centi	Università degli Studi di Messinai					
	Aug 2nd (Tue) 10:20-11	:00 Room A						
KN-10	CO ₂ -assisted activation of light alkanes	Jingguang Chen	Columbia University					
	Aug 2nd (Tue) 11:20-12	:00 Room D						
KN-11	Understanding catalytic performance through physicochemical gradients on the reactor scale	Atsushi Urakawa	Delft University of Technology					
	Aug 2nd (Tue) 13:00-13	:40 Room B						
KN-12	S-scheme heterojunction photocatalyst and its environmental application	Jiaguo Yu	China University of Geosciences					
	Aug 2nd (Tue) 14:00-14	:40 Room A						
KN-13	Photo(electro)catalytic conversion of inorganic nitrogenous pollutants to dinitrogen	Wonyong Choi	Korea Institute of Energy Technology					
	Aug 2nd (Tue) 14:40-15	20 Room D						
KN-14	Catalyst development for CO ₂ hydrogenation	Ning Yan	National University of Singapore					
	Aug 2nd (Tue) 15:50-16	:30 Room C						
KN-15	Total oxidation of VOCs over cobalt oxide- based catalysts	Anne Giroir-Fendler	Université Claude Bernard Lyon					
	Aug 2nd (Tue) 16:50-17	:30 Room A						
KN-16	Catalysts under dynamic reaction conditions for emission control and sustainable production of chemicals	Jan-Dierk Grunwaldt	Karlsruher Institut für Technologie					

Keynote Lecture Speakers



Gabriele Centi Università degli Studi di Messinai Italy



Wonyong Choi Korea Institute of Energy Technology Korea



Jan-Dierk Grunwaldt Karlsruher Institute of Technology Germany



Do Heui Kim Seoul National University Korea



Jinqquang Chen Columbia University USA



Anne Giroir-Fendler Université Claude Bernard Lyon France



Hong He Chinese Academy of Sciences China



Yongdan Li Aalto University Finland



Stefan Marx BAFS Germany



Michael Stockenhuber The University of Newcastle Australia



Atsushi Urakawa Delft University of Technology Netherlands



Ning Yan National University of Singapore Singapore



Masaru Ogura The University of Tokyo Japan



Todd J. Toops Oak Ridge NationalLaboratory USA



Kevin C. W. Wu National Taiwan University Taiwan



Jiaguo Yu China University of Geosciences China

Special Session of Applied Catalysis B Session Coordinator: Hiromi Yamashita (Osaka University) (Room D) (Japan Standard Time) Aug 1st (Mon) 13:00-13:10 Room D Opening of Session In-Sik Nam (Pohang University of Science and Technology) Natalia Lee (Elsevier)									
Aug 1st (Mon) 13:10-13:35 Room D									
SIL-1	Catalyst advances for highly performing and durable anion exchange membrane fuel cells	University of South Carolina							
Aug 1st (Mon) 13:35-14:00 Room D									
SIL-2	Challenges of photocatalysis and their coping strategies	Hexing Li	Shanghai Normal University						
	Aug 1st (Mon) 14:00-1	4:25 Room D							
SIL-3	Photocatalytic self-Fenton high-throughput mineralization of organic pollutants in water	Yongfa Zhu	Tsinghua University						
	Aug 1st (Mon) 14:25-14	4:50 Room D							
SIL-4	Heterogenous reaction mechanism of typical VOCs for SOA formation and implication for VOCs catalytic abatement	Taicheng An	Guangdong University of Technology						
Aug 1st (Mon) 14:50-15:15 Room D									
SIL-5	Nanocatalyst engineering for CO2 hydrogenation to formic acid as a promising hydrogen storage material	Kohsuke Mori	Osaka University						

Special Session of Applied Catalysis B

Session Coordinator: Hiromi Yamashita (Osaka University) (Room D) (Japan Standard Time)

Aug 1st (Mon) 15:50-16:15 Room D									
SIL-6	Scale-up and demonstration of photocatalytic nanofiltration reactor for water purification and reuse	Institute of Nanoscience and Nanotechnology							
Aug 1st (Mon) 16:15-16:40 Room D									
SIL-7	CO2 reduction to fuels by water driven by photocatalysis	Junwang Tang	University College London						
Aug 1st (Mon) 16:40-17:05 Room D									
SIL-8	Novel multifunctional microbial photo- electro-catalytic systems for conversion of inorganic carbon to acetate using semiconductor z-scheme heterojunctions	Gianluca Li Puma	Loughborough University						
	Aug 1st (Mon) 17:05-1	7:30 Room D							
SIL-9	Modifications of porous Ti-based photocatalysts and applied in CO ₂ photocatalytic reduction	Jinlong Zhang	East China University of Science and Technology						
	Aug 1st (Mon) 17:30-1'	7:55 Room D							
SIL-10	Design and preparation of efficient heterogeneous catalysts for full oxidation of HCHO: from Pt-based to Ag-based catalysts	Feng-Shou Xiao	Zhejiang University						
	Aug 1st (Mon) 17:55-18:05 Room D								
Closing of Session Xenophon Verykios (University of Patras)									

			Pro	ogram	of ICEC	2022 ((Japan	Star	dard Tim	ie)				
	July 30th (Sat) July 31st (Sun)				August 1st (Mon)				August 2nd (Tue)					
	Room A	Room A	Room B	Room C	Room D	Room A	Room B	Roon		Room A	Room B	Room C	Room D	
8:00														
		Registration					Registration				Registration			
9:00		PL-2 Christopher W. Jones				PL-3 Hirohito Hirata				PL-4 Junhua Li				
10:00			Bre	eak			Break				Bı	reak		
		KN-1	OB01	OC01	OD01	OA16	KN-6	OC1	8 OD18	KN-10	OB33	OC35	OD23	
		Hong He	OB02	OC02	OD02	OA17	Do Heui Kim	OC1	9 OD19	Jingguang Chen	OB34	OC36	OD24	
11:00		OA01	OB03	OC03	OD03	OA18	OB18	OC2	0 OD20	OA33	OB35	OC37	OD25	
		OA02	KN-2 Todd J.	OC04	OD04	OA19	OB19	OC2	1 OD21	OA34	OB36	OC38	KN-11 Atsushi	
		OA03	Toops	OC05	OD05	OA20	OB20	OC2	2 OD22	OA35	OB37	OC39	Urakawa	
12:00			_	_										
		Lunch			Lunch Special Session			Lunch						
13:00		KN-3	OB04	OC06	OD06	KN-7	OB21	OC2	3 Opening	OA36	KN-12	OC40	OD26	
		Michael Stockenhuber	OB05	OC07	OD07	Masaru Ogura	OB22	OC2	4 SIL-01	OA37	Jiaguo Yu	OC41	OD27	
		OA04	OB06	OC08	OD08	OA21	OB23	OC2	5 SIL-02	OA38	OB38	OC42	OD28	
14:00		OA05	OB07	OC09	OD09	OA22	OB24	OC2	6 SIL-03	KN-13	OB39	OC43	OD29	
		OA06	OB08	OC10	OD10	OA23	OB25	OC2	7 SIL-04	Wonyong Choi	OB40	OC44	OD30	
	Registration	OA07	OB09	KN-4	OD11	OA24	KN-8 Kevin C. W.	OC2	8	OA39	OB41	OC45	KN-14	
15:00	Registration	OA08	OB10	Yongdan Li	OD12	OA25	Wu	OC2	9 SIL-05	OA40	OB42	OC46	Ning Yan	
			Bre	eak			Break		Ві	Break				
16:00		OA09	OB11	OC11	OD13	OA26	OB26	OC3	0 SIL-06	OA41	OB43	KN-15	OD31	
	Opening	OA10	OB12	OC12	OD14	OA27	OB27	OC3	1 SIL-07	OA42	OB44	Anne Giroir- Fendler	OD32	
	PL-1	OA11	OB13	OC13	OD15	OA28	OB28	OC3	2	OA43	OB45	OC47	OD33	
17:00	Christopher	OA12	OB14	OC14	KN-5	OA29	OB29	KN- Gabrie		KN-16 Jan-Dierk	OB46	OC48	OD34	
	Hardacre	OA13	OB15	OC15	Stefan Marx	OA30	OB30	Cent		Grunwaldt	OB47	OC49	OD35	
		OA14	OB16	OC16	OD16	OA31	OB31	OC3	3 SIL-10	OA44	OB48	OC50	OD36	
18:00		OA15	OB17	OC17	OD17	OA32	OB32	OC3	4 Closing	OA45	OB49	OC51	OD37	
			Break				Break			Break				
		Short				Short				Closing			ncluding Q&A (min)	
19:00		Presentation of Poster (Room A)	Poste P01 - P (Room F	40 F	Poster 41 - P83 .oom P-2)	Presentation of Poster (Room A)	Poste P84 - P1 (Room P	30	Poster P131 - P175 (Room P-2)		1	Plenary Keynote Special Invited Invited Oral	60 40 25 20 20	
20:00		in-person only				in-person only						Poster Short Presentation	90 5	

20:00