

Program of ICEC2022

Poster Presentation, July 31st (Sun) 18:30-20:00 (Japan Standard Time) Room P-1

No.	Title of Paper	Authors	Affiliation
P01	Synthesis and adsorption properties of nitroso compounds on metal oxides aiming for evaluation of PEFC oxide catalysts	<u>Masaya Kimura</u> , Kenji Hara	Tokyo University of Technology
P02	Multifunctional starch paste assisted synthesis of manganese-cobalt oxide catalyst with multifarious active regions for toluene catalytic combustion	<u>Jinggang Zhao</u> , Peifen Wang, Abuliti Abudulaa, Guoqing Guan	Hirotsuki University
P03	Selective catalytic oxidation of acetonitrile on SAPO-34 catalysts embedded with nano-bimetal oxides	<u>Xiangwen Zhang</u> , Haijun Chen	Nankai University
P04	Preparation of CeO ₂ @Beta catalyst for selective catalytic reduction of NO _x with NH ₃	<u>Di Mao</u> , Junyan Liu, Jing He, Chengyang Yin	Shenyang Normal University
P05	Room temperature catalytic decomposition of gases ozone over Ag-based catalysts	<u>Xiaotong Li</u> , Jinzhu Ma, Xufei Shao, Hong He	Chinese Academy of Sciences
P06	Insight into sintering resistance of Pd/Sr ₃ Ti ₂ O ₇ under the three-way catalyst atmosphere revealed by machine learning enhanced global optimization	<u>Thanh N. Pham</u> , Beatriz A. C. Tan, Yuji Hamamoto, Kouji Inagaki, Ikutaro Hamada, Yoshitada Morikawa	Osaka University
P07	Doped vanadium oxides in tungsten oxides for controlled vanadyl species in NH ₃ -SCR catalyst	<u>Myeung-Jin Lee</u> , Bora Jeong, Hangyu Im, Su-Jin Kim, Woon Gi Kim, Bora Ye, and Hong-Dae Kim	Korea Institute of Industrial Technology
P08	A novel quasi-MOF-Mn catalyst for the selective catalytic reduction of NO _x with NH ₃	<u>Ruiyang Chen</u> , Zhiming Liu	Beijing University of Chemical Technology
P09	Preparation of monolithic catalyst for the removal of VOCs	<u>Kaixuan Fu</u> , Yun Su, Lizhe Yang, Rui Han, Qingling Liu	Tianjin University
P10	NH ₃ -SCR over iron-exchanged small-pore zeolites with different framework topologies	<u>Xuechao Tan</u> , Suk Bong Hong	POSTECH

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P11	Study of Pd-SSZ-13 as low-temperature passive NO _x adsorber material: dispersion of Pd in small-pore CHA zeolites by thermal treatment	<u>Yingjie Wang</u> , Xiaoyan Shi, Hong He	Research Center for Eco-Environmental Sciences
P12	Interface-enhanced oxygen vacancies of CoCuO _x catalysts in situ grown on monolithic Cu foam for VOC catalytic oxidation	<u>Yanfei Zheng</u> , Yun Su, Rui Han, Qingling Liu	Tianjin University
P13	Ab initio thermodynamic background for reoxidation pathways of CuSSZ-13 catalyst for NH ₃ -SCR of NO	B. Mozgawa, F. Zasada, M. Fedyna, K. Góra-Marek, Ch. Yin, Zh. Zhao, <u>P. Pietrzyk</u> , Z. Sojka	Jagiellonian University
P14	Fine tuning the Pt dispersion on Al ₂ O ₃ and understanding the nature of active Pt sites for CO and NH ₃ oxidations	<u>Wei Tan</u> , Shaohua Xie, Xing Zhang, Fei Gao, Lin Dong, Fudong Liu	Nanjing University
P15	NO reduction over Rh-based hybrid clustering catalysts	<u>Shinji Endo</u> , Shun Hayashi, Hiroki Miura, Tetsuya Shishido	Tokyo Metropolitan University
P16	Transition metals functionalised porous silica nanospheres as potential catalysts for conversion of gaseous nitrogen pollutants	<u>Aleksandra Jankowska</u> , Andrzej Kowalczyk, Małgorzata Rutkowska, Marek Michalik, Lucjan Chmielarz	Jagiellonian University
P17	Fe-Mn bimetallic catalyst for simultaneous catalytic elimination of nitrogen oxides and toluene at moderate and low temperature	<u>Beilong Lin</u> , Ziyang Guo, Gaofei Xiao, Minli Fu, Daiqi Ye, Yun Hu	South China University of Technology
P18	Hydrothermally stable zeolite encapsulated metal nanoparticles for cold hydrocarbon emission in gasoline engine after-treatment system	<u>Hidekazu Goto</u> , Ryosuke Abiru, Mayuko Suwa, Shota Urabe, Hiroyasu Fujitsuka, Teruoki Tago	Tokyo Institute of Technology
P19	Facile synthesis of high-stability Pd/MgAl ₂ O ₄ catalyst for methane combustion	<u>Jie Li</u> , Yan Zhang, Wenpo Shan, Hong He	Institute of Urban Environment
P20	Construction of dual active sites on non-vanadium-based oxide catalyst for simultaneous elimination of toluene and nitrogen oxide	<u>Ziyang Guo</u> , Gaofei Xiao, Beilong Lin, Yun Hu, Mingli Fu, Daiqi Ye	South China University of Technology

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P21	Low temperature O ₃ assisted NH ₃ -SCR over Cu-CHA	<u>Yucheng Qian</u> , Shunsaku Yasumura, Takashi Toyao, Zen Maeno, Ken-ichi Shimizu	Hokkaido University
P22	Simultaneous abatement of NO and N ₂ O with CH ₄ over Pt,Pd,Rh/TiO ₂ -ZrO ₂ and Pt,Pd,Rh/TiO ₂ -ZrO ₂ -CeO ₂ catalysts	M.C. Campa, G. Fierro, A.M. Doyle, <u>D. Pietrogiacomì</u>	Sapienza University of Rome
P23	Analysis of oxygen storage capacity in oxygen deficient Sr ₃ Fe ₂ O _{7-δ} perovskite by DFT+U	<u>Tadashi Ota</u> , Yoshitada Morikawa	Osaka University
P24	Synergistic effect of Fe and H ₂ SO ₄ in Fe/H ₂ SO ₄ /CeO ₂ catalyst for enhanced alkali-metal tolerance of NH ₃ -SCR: A theoretical investigation	<u>Kai Oshiro</u> , Min Gao, Jun-ya Hasegawa	Hokkaido University
P25	Direct NO decomposition over Rh-based supported metal oxides: Investigation of deactivation mechanism and regeneration strategy	<u>Wo Bin Bae</u> , Do Yeong Kim, Minkyu Kim, Sung Bong Kang	Gwangju Institute of Science and Technology
P26	Bifunctional (Au)-CuO-CeO ₂ and ZSM-5 catalyst combination for flue gas emission control of formaldehyde production units	<u>Maria Smyrnioti</u> , Theophilos Ioannides	Institute of Chemical Engineering Sciences (FORTH/ICE-HT)
P27	Superior N ₂ selectivity of PtVW catalyst in simultaneous NH ₃ and CO emission control	<u>Sang Woo Byun</u> , Hyeonwoo Shin, Seong Jun Lee, Minkyu Kim, Bekelcha Tesfaye, Paul Worn Park, Sung Bong Kang	Gwangju Institute of Science and Technology
P28	The role of oxygen vacancies in reduced molybdenum oxide catalyst for methanol synthesis from CO ₂	<u>Koji Hamahara</u> , Yasutaka Kuwahara, Hisayoshi Kobayashi, Hiromi Yamashita	Osaka University
P29	Cu-impregnated MFI zeolites for hydrocarbon trap during cold-start period: Effects of cation ratios in the zeolite support on the hydrothermal stabilities	<u>Jahee Shim</u> , Jinseng Kim, Jungkyu Choi	Korea University
P30	Surface modification of γ-Al ₂ O ₃ for anti-sintering Pd-based CH ₄ P42_oxidation catalyst	<u>Hyeonwoo Shin</u> , Sang Woo Byun, Jaekyoung Lee, Sung Bong Kang	Gwangju Institute of Science and Technology

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P31	In situ Transmission IR spectroscopy of plasma catalytic conversion of CO ₂ hydrogenation over Pd ₂ Ga/SiO ₂ alloy catalyst	<u>Dae-Yeong Kim</u> , Shinya Furukawa, Tomohiro Nozaki	Tokyo Institute of Technology
P32	Effects of Pd-Pt ratio and reaction environment on the performance of methane oxidation catalyst	<u>Jiseok Park</u> , DongJoon Kim, Young Jin Kim, Iljeong Heo, Minkyu Kim, Sung Bong Kang	Gwangju Institute of Science and Technology
P33	Development of efficient soot oxidation catalysts and their application in diesel emission control after-treatment devices	<u>Prajakta Mohan Ramteke</u> , Sunit Kumar Singh and Nitin K. Labhasetwar	CSIR-National Environmental Engineering Research Institute Nagpur
P34	Synthesis of Cu-impregnated MFI zeolite with different cations as hydrocarbon adsorbents	<u>Jinseong Kim</u> , Jungkyu Choi	Korea University
P35	Ultra-high yield coproduction of C ₅₊ hydrocarbons and ethanol from CO ₂ hydrogenation on a rational designed multi-functional catalyst	<u>Heng Zhao</u> , Yingluo He, Guohui Yang, Noritatsu Tsubaki	University of Toyama
P36	High-entropy intermetallics on ceria as a highly efficient catalyst for the oxidative dehydrogenation of propane using CO ₂	<u>Feilong Xing</u> , Ken-ichi Shimizu, Shinya Furukawa	Hokkaido University
P37	Optimum shell thickness on Cu-impregnate core-shell structured zeolites for hydrocarbon trap	<u>Wenhao Zeng</u> , Jinseong Kim, Jungkyu Choi	Korea University
P38	Heterojunction between gallium oxide and calcium titanate for substance-preferential silver photodeposition for enhancement about photocatalytic carbon dioxide reduction with water	<u>Hongxuan Qiu</u> , Akira Yamamoto, Hisao Yoshida	Kyoto University
P39	Enhanced visible-NIR absorption and oxygen vacancy generation of Pt/HxMoWO _y by H-spillover to facilitate photothermal catalytic CO ₂ hydrogenation	<u>Hao Ge</u> , Yasutaka Kuwahara, Kazuki Kusu, Hiromi Yamashita	Osaka University
P40	Development of highly stability ternary alloy catalysts for dry reforming of methane	<u>Ke Liu</u> , Shinya Furukawa	Hokkaido University

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P41	The elucidation of Cu-Zn surface alloying on Cu(997) by machine-learning molecular dynamics	<u>Harry Handoko Halim</u> , Yoshitada Morikawa	Osaka University
P42	Synergistic integration of doped-Sn with oxygen vacancies on Co ₃ O ₄ for selective photocatalytic CO ₂ reduction to methane	<u>Mingyang Li</u> , Shiqun Wu, Zhiguo Liu, Jinlong Zhang	East China University of Science and Technology
P43	Iron phthalocyanine with axial nitrogen coordination induced electronic localization to boost the electrochemical reduction of carbon dioxide	<u>Jofrey J. Masana</u> , Jiayong Xiao, Ming Qiu, Ying Yu	Central China Normal University
P44	Reverse water gas shift reaction in fluidized-bed nonthermal plasma reactor: an experimental kinetic study	<u>Xiaozhong Chen</u> , Shinya Furukawa, Tomohiro Nozaki	Tokyo Institute of Technology
P45	Investigation of the role of oxygen vacancies and the effect of visible light in CO ₂ hydrogenation using reduced molybdenum oxide catalyst	<u>Shintaro Naito</u> , Yasutaka Kuwahara, Hiromi Yamashita	Osaka University
P46	Effect of morphology on photo-assisted reverse water gas shift reaction using Pt-loaded molybdenum sub-oxide	<u>Taku Kishimura</u> , Yasutaka Kuwahara, Hiromi Yamashita	Osaka University
P47	Synthesis of a CaO-Fe ₂ O ₃ -SiO ₂ composite from dephosphorization slag for CO ₂ adsorption	<u>Zaza Hazrina Hashim</u> , Yasutaka Kuwahara, Aiko Hanaki, Hiromi Yamashita	Osaka University
P48	Bifunctional Fe-HZSM-5 catalysts activated by CO ₂ containing syngas for the selective production of liquid hydrocarbons from syngas	<u>Deviana Deviana</u> , Geun Bae Rhim, Hyeon Song Lee, Gyoung Woo Lee, Min Hye Youn, Jinwon Park, Dong Hyun Chun	Yonsei University and Korea of Institute of Energy Research (KIER)
P49	N-formylation of amines with CO ₂ by using Zr-based metal-organic frameworks: favorable contribution of defect sites of MOF	<u>Dong Kyu Yoo</u> and Sung Hwa Jhung	Kyungpook National University
P50	Improving of polymerization rate and tuning of glass transition temperature by alternating terpolymerization of carbon dioxide, propylene oxide and epoxide with adamantyl group	<u>Ko Okuda</u> , Takuya Ebihara, Tomoya Ohkawa, Masayoshi Honda, Hiroshi Sugimoto	Tokyo University of Science

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P51	Development of novel synthesis of high entropy alloy nanoparticles as durable catalysts for CO ₂ hydrogenation	<u>Naoki Hashimoto</u> , Kohsuke Mori, Naoto Kamiuchi, Hideto Yoshida, Hisayoshi Kobayashi, Hiromi Yamashita	Osaka University
P52	Na-modified Pt nanoparticles on Al ₂ O ₃ effective for continuous CO ₂ capture and selective hydrogenation to CO	<u>Shinta Miyazaki</u> , Lingcong Li, Takashi Toyao, Zen Maeno, Ken-ichi Shimizu	Hokkaido University
P53	Decomposition of nitrous oxide over Rh catalysts supported on zirconia-based solid solutions	<u>Ayane Ishima</u> , Ryosuke Aoi and Shinji Iwamoto	Gunma university
P54	Construction of an electrochemical catalytic reaction system and its application to CO ₂ reduction reaction	<u>Keigo Komoguchi</u> , Muneaki Yamamoto, Hideaki Yoneda, Tetsuo Tanabe, Tomoko Yoshida	Osaka Metropolitan University
P55	Theoretical study on the control of CO ₂ capture and separation by applying the electric field	<u>Koki Saegusa</u> , Kenshin Chishima, Hiroshi Sampei, Kazuharu Ito, Kota Murakami, Yasushi Sekine	Waseda University
P56	Bimetallic catalysts for direct CO ₂ hydrogenation to hydrocarbons in a single reactor	<u>Canio Scarfiello</u> , Katerina Soulantica, Philippe Serp, Carole Le Berre, Doan Pham Minh	Université de Toulouse
P57	Synthesis of C ₂ +OH from CO ₂ hydrogenation reaction using physical mixture of Cu- and Fe-based catalysts	Cássia S. Santana, Luiz H. Vieira, Ananda V. P. Lino, Elisabete M. Assaf, José M. Assaf, <u>Janaina F. Gomes</u>	São Carlos Federal University
P58	Electrochemical reduction of CO ₂ at the Sn/ graphene/ C electrode	<u>Kenta Kikuchi</u> , Mai Furukawa, Ikki Tateishi, Hideyuki Katsumata, Satoshi Kaneco	Mie University
P59	Cu, Pd and Zn surfaces for CO ₂ activation and hydrogenation	<u>Igor Kowalec</u> , Lara Kaban, Andrew Logsdail, and Richard Catlow	Cardiff University
P60	CO ₂ fixation with NH ₃ over basic MgO catalyst	<u>Masato Takeuchi</u> , Atsushi Kondo, Masaya Matsuoka	Osaka Metropolitan University

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P61	Remarkable durability of Nickel embedded silica catalyst in dry reforming of methane	<u>Haehyun Min</u> , Bogyung Kim, Sung Bong Kang	Gwangju Institute of Science and Technology
P62	Electrochemical reduction of CO ₂ in methanol at Cu/graphene-based carbon plate electrode	<u>Yuji Saka</u> , Mai Furukawa, Ikki Tateishi, Hideyuki Katsumata, Satoshi Kaneco	Mie University
P63	Evaluation of electrochemical carbon dioxide reduction using layered double hydroxide as a cathode solid electrolyte	<u>Fuki Koyama</u> , Muneaki Yamamoto, Tomoko Yoshida	Osaka Metropolitan University
P64	Tri-reforming of methane over Ni-Al ₂ O ₃ catalyst: experiment and microkinetic modelling	<u>Satyam Gupta</u> , A.S.Russel, Goutam Deo	Indian Institute of Technology Kanpur
P65	CO ₂ capture performance in zeolites with respect to frameworks and Si/Al ratios	<u>Do Yeong Kim</u> , Wo Bin Bea, Sungjoon Kweon, Min Bum Park, Sung Bong Kang	Gwangju Institute of Science and Technology
P66	Effects of In ₂ O ₃ promoter on an ordered mesoporous Cu/Al ₂ O ₃ for CO ₂ hydrogenation to methanol	<u>Faisal Zafar</u> , Mansoor Ali, Jong Wook Bae	Sungkyunkwan University
P67	Highly efficient hydrogenolysis of aryl ether using nickel phosphide nanoparticle catalyst for lignin valorization	<u>Shafarifky Muhammad Arief</u> , Min Sheng, Sho Yamaguchi, Takato Mitsudome, Tomoo Mizugaki	Osaka University
P68	Investigating the formation of active PdZn nanoparticles for carbon dioxide hydrogenation to methanol	<u>Naomi Lawes</u> , Nicholas F. Dummer, Michael Bowker, Thomas Slater, Thomas E. Davies, Louise Smith, Nia Richards, Kieran Aggett, James Hayward, Stuart H. Taylor, Graham J. Hutchings	Cardiff University
P69	Support screening of Ni-based supported metal catalysts for CO ₂ hydrogenation to CH ₄	<u>Yanggeun Ju</u> , Haehyun Min, Sung Bong Kang	Gwangju Institute of Science and Technology
P70	Effect of Zn addition on zeolite-catalyzed production of olefins and monoaromatics from hydroxyacetone	<u>Pipat Na Ranong</u> , Keita Taniya, Chiaki Ogino, Yuichi Ichihashi, Satoru Nishiyama	Kobe University

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P71	Molecular oxygen activation for eco-friendly methane to methanol transformation over iron-containing zeolite-based catalyst	<u>K. Mlekodaj</u> , A. Kornas, R. Pilar, J.E. Olszowka, H. Jirglova, S. Sklenak, J. Dedecek, E. Tabor	J. Heyrovsky Institute of Physical Chemistry of the CAS
P72	Composites of supported metal nanoparticles modified with polyoxometalates for reduction-base dual functional catalysis	<u>Shoji Fukuda</u> , Soichi Kikkawa, Ryo Takahata, Kosuke Suzuki, Kazuya Yamaguchi, Toshiharu Teranishi, Seiji Yamazoe	Tokyo Metropolitan University
P73	Biomass-derived materials for electrochromic application	<u>De-Chian Chen</u> , Eduardo C. Atayde Jr., Kevin C.-W. Wu	National Taiwan University
P74	Tuning of hydrogenation ability of supported Pt catalysts by metal oxide cluster modification	<u>Yutaro Matsunaga</u> , Shoji Fukuda, Soichi Kikkawa, Seiji Yamazoe	Tokyo Metropolitan University
P75	Modeling the role of water in Sn-BEA zeolite for keto/enol tautomerization of acetone	<u>Aditya Goyal</u> , Vishal Agarwal	Indian Institute of technology Kanpur
P76	A DFT+U study to model reduced MoOx surfaces for hydrodeoxygenation of bio-oil model compounds	<u>Abir Lal Bose</u> , Vishal Agarwal	IIT KANPUR
P77	Activation of allylic alcohol with Al-doped mesoporous silica-supported Pd complex catalyst for the Tsuji-Trost allylation	<u>Siming Ding</u> , Yuichi Manaka, Ken Motokura	Tokyo Institute of Technology
P78	Nickel carbide nanoparticle catalyst for the selective hydrogenation of nitriles to primary amines	<u>Daiki Kiyohira</u> , Sho Yamaguchi, Takato Mitsudome, Tomoo Mizugaki	Osaka University
P79	Efficient conversion of fatty acid esters and depolymerization of aliphatic polyesters by CaO catalyzed transesterification	<u>Swetha Sudhakaran</u> , S. M. A. Hakim Siddiki, Kotohiro Nomura	Tokyo metropolitan University
P80	Dirhodium(II) complex-catalyzed enantioselective carbonyl ylide cycloaddition reactions under continuous flow conditions	Ryo Sato, Kyosuke Kaneda, <u>Koji Takeda</u>	Hokkaido University of Science

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P81	Hydrodeoxygenation of lignocellulose-derived vanillin using Ni-La-Ce-Ti perovskite catalysts	<u>Jina Eun</u> , Lien Thi Do, Jonghyun Lee, Jae-Wook Choi, Dong Jin Suh, Chun-Jae Yoo, Kwan Young Lee, Jeong-Myeong Ha	Korea Institute of Science and Technology
P82	Synthesis of green CHA zeolite from rice husk and its applications	Yao Lu, Yong Wang, Kengo Nakamura, Takeshi Matsumoto, Junko N. Kondo, Toshiyuki Yokoi	Tokyo Institute of Technology
P83	Production of formic acid from carbohydrates using hydrogen peroxide in the presence of CaO solid base catalyst	<u>Atsushi Takagaki</u> , Wataru Obata, Ikuto Yoshiki, Tatsumi Ishihara	Kyushu University

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P84	Dual function of Pd ensemble site induced by GaOx modification in enhancing CO ₂ hydrogenation into formic acid	<u>Hiroto Hata</u> , Kohsuke Mori, Hiromi Yamashita	Osaka University
P85	Nickel-based high-entropy intermetallic as a highly active and selective catalyst for acetylene semihydrogenation	<u>Jiamin Ma</u> , Feilong Xing, Yuki Nakaya, Ken-ichi Shimizu, Shinya Furukawa	Hokkaido University
P86	Development of PdAgCr ternary nanoparticle catalysts for efficient dehydrogenation from formic acid as a promising H ₂ carrier	<u>Tatsuya Fujita</u> , Kohsuke Mori, Hiromi Yamashita	Osaka University
P87	Effects of the perovskite-A-site composition on ammonia synthesis in an electric field	<u>Sae Doi</u> , Yuta Tanaka, Kota Murakami, Kazuharu Ito, Takuma Higo, Hideaki Tsuneki, Yasushi Sekine	Waseda University
P88	Formic Acid dehydrogenation catalyzed by carbon-supported palladacycles	<u>David Salinas-Torres</u> , Miriam Navlani-García, José Luis Serrano, Emilia Morallón, Diego Cazorla-Amorós	Technical University of Cartagena
P89	Investigation of Cu promotion on the activity of M/Al ₂ O ₃ catalysts (M = Fe, Co, and Ni) for NH ₃ decomposition	<u>Younghwan Im</u> , Hiroki Muroyama, Toshiaki Matsui, Koichi Eguchi	Kyoto University
P90	Ammonia as a hydrogen storage. Cobalt-nickel catalysts for ammonia decomposition	<u>Andrzej Kowalczyk</u> , Natalia Szczepanik, Zofia Piwowska, Lucjan Chmielarz	Jagiellonian University

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P91	Efficient Ru catalysts for CO ₂ -free ammonia synthesis	<u>Rahat Javaid</u> , Tetsuya Nanba	National Institute of Advanced Industrial Science and Technology (AIST)
P92	Non-oxidative coupling of methane: N-type doping of niobium single atoms in TiO ₂ -SiO ₂ induces electron localization	<u>Ziyu Chen</u> , Shiqun Wu, Jiayu Ma, Shinya Mine, Takashi Toyao, Masaya Matsuoka, Lingzhi Wang, Jinlong Zhang	East China University of Science and Technology
P93	Development of Pt/TiO _{2-x} nanorods photocatalysts assisted by hydrogen spillover	<u>Tetsuya Toyonaga</u> , Yukari Yamazaki, Kohsuke Mori, Yasutaka Kuwahara, Hiromi Yamashita	Osaka University
P94	TiO ₂ -based S-scheme photocatalyst for enhanced H ₂ O ₂ -production activity	<u>Linxi Wang</u> , Jiaguo Yu	China University of Geosciences
P95	Development of defective Pt/ZrO _{2-x} photocatalysts with different crystal phases	<u>Naoto Doshita</u> , Yukari Yamazaki, Kohsuke Mori, Yasutaka Kuwahara, Hiromi Yamashita	Osaka University
P96	Selective photocatalytic CO ₂ reduction to CH ₄ on tri-s-triazine-based carbon nitride via defects and crystal regulation	<u>Zhiguo Liu</u> , Shiqun Wu, Mingyang Li, Jinlong Zhang	East China University of Science and Technology
P97	Effect of non-metal doping on the photocatalytic performance of g-C ₃ N ₄ -based S-scheme heterojunction: A theoretical study	<u>Bicheng Zhu</u> , Jiaguo Yu	China University of Geosciences
P98	Photo-coupling of halogenated arenes boosted by metal cocatalyst	<u>Yaru Li</u> , Hongwei Xiang, Yongwang Li, Hans Niemantsverdriet, Ren Su	Synfuels China Technology Co. Ltd.
P99	Plasma-modified black Bi ₂ WO ₆ nanosheets for photocatalytic CO ₂ conversion	<u>Kang Zhong</u> , Anqi Zhou, Guli Zhou, Qidi Li, Jinman Yang, Zhaolong Wang, Xingwang Zhu, Junchao Qian, Yingjie Hua, Huaming Li, Hui Xu	JiangSu University
P100	Preparation of high-strength collagen gels using titanium oxides with UV irradiation	Hiroko Hoshi, Kaito Wakabayashi, <u>Hiromi Matsuhashi</u>	Hokkaido University

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P101	Hydrogen evolution coupled with pyruvic acid production via photocatalytic α -C(sp ³) H activation over CdS/MoO ₂ /MoS ₂ hollow spheres	<u>Chuanbiao Bie</u> , Bicheng Zhu, Linxi Wang, Chenhui Jiang, Tao Chen, Jiaguo Yu	China University of Geosciences
P102	In situ Pt-loaded porous photocatalyst for dry reforming of methane under mild conditions	<u>Chengxuan He</u> , Shiqun Wu, Jinlong Zhang	East China University of Science and Technology
P103	Investigation of Au supporting method on titanium dioxide for hydrogen production from high concentration methanol	<u>Yuta Takai</u> , Mai Furukawa, Ikki Tateishi, Hideyuki Katsumata, Satoshi Kaneco	Mie University
P104	Electron transfer kinetics of CdS/Pt heterojunction photocatalyst for water splitting	<u>Jianjun Zhang</u> , Guijie Liang, Linxi Wang, Jiaguo Yu	China University of Geosciences
P105	Synthesis of flower-like structured FeSi ₂ and its application to the water purification	<u>Takashi Kamegawa</u> , Tatsuki Minami	Osaka Metropolitan University
P106	Highly dispersed hematite supported on silica as a visible light driven photocatalyst for wastewater treatment	<u>Yoshiumi Kohno</u> , Masaki Ohmura, Rei Sawa, Ryo Watanabe, Choji Fukuhara	Shizuoka University
P107	Size effect in Au NRs-based plasmonic catalyst with Pd-rGO nanocomposite for promoting suzuki-miyaura coupling reaction	<u>Toru Shimojitosh</u> , Kenjirou Tamaki, Priyanka Verma, Kohsuke Mori, Yasutaka Kuwahara, Hiromi Yamashita	Osaka University
P108	The p-n junction CdS/Cu ₇ S ₄ for improved Photocatalytic Hydrogen Production	<u>Takumi Kobayashi</u> , Ikki Tateishi, Mai Furukawa, Hideyuki Katsumata, Satoshi Kaneco	Mie University
P109	TiO ₂ nanofiber-based S-scheme photocatalysts	<u>Feiyan Xu</u> , Jiaguo Yu	China University of Geosciences
P110	Au-induced promotion of the photocatalytic performance of W ₁₈ O ₄₉ towards CO ₂ reduction	<u>Sushu Zhang</u> , Zheng Qi, Qin Li, Kangle Lv	South-Central Minzu University

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P111	Fe-MOF derivative with enhanced oxygen reduction for indoor pollutant purification	<u>Junxian Qin</u> , Yun Pei, Yun Hu	South China University of Technology
P112	Plasmonic photocatalyst with enhanced photocatalytic activity and stability under visible-light irradiation	<u>Kenta Yoshiiri</u> , Maya Endo-Kimura, Bunsho Ohtani, Ewa Kowalska	Hokkaido University
P113	Effect of metal-oxide cluster species on hydrogen peroxide production using MOF photocatalysts	<u>Kenta Hino</u> , Yoshifumi Kondo, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita	Osaka University
P114	Hydrogen production activity by heterojunction g-C ₃ N ₄ photocatalysts with aromatic rings	<u>Motoki Sato</u> , Hideyuki Katsumata, Ikki Tateishi, Mai Furukawa, Satoshi Kaneco	Mie University
P115	Hydrogen peroxide generation from oxygen and water driven by Hf-MOF photocatalyst with structural defects	<u>Kotaro Honda</u> , Yoshifumi Kondo, Yasutaka Kuwahara, Kohsuke Mori, Hiromi Yamashita	Osaka University
P116	Modification of metal organic frameworks and their adsorption and photocatalytic performance for volatile organic compounds	<u>Jun Wang</u> , Junxian Qin, Yun Hu	South China University of Technology
P117	Visible-light-driven CO ₂ reduction system constructed from α -FeOOH/Al ₂ O ₃ catalyst and a Ru(II) sensitizer	<u>Daehyeon An</u> , Shunta Nishioka, Tomoki Kanazawa, Shunsuke Nozawa, Kazuhiko Maeda	Tokyo Institute of Technology
P118	Role of Ag-nano particles on a Ga ₂ O ₃ catalyst in photocatalytic CO ₂ reduction studied with wavelength selected light illumination	<u>Tomoka Yamamoto</u> , Muneaki Yamamoto, Tetsuo Tanabe, Tomoko Yoshida	Osaka Metropolitan University
P119	Role of Al ₂ O ₃ used as support of Ga ₂ O ₃ photocatalyst in photocatalytic CO ₂ reduction	<u>Kyoshiro Ichikawa</u> , Tomomi Aoki, Masato Akatsuka, Muneaki Yamamoto, Tetsuo Tanabe, Tomoko Yoshida	Osaka Metropolitan University
P120	Photocatalytic and electrochemical evolution of H ₂ from alcohol in WO ₃ -Cu ⁿ⁺ -H ₂ O-O ₂ system	<u>Chihiro Shiba</u> , Kazuki Hayami, Atsuhiko Tanaka, Hiroshi Kominami	Kindai University

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-1

No.	Title of Paper	Authors	Affiliation
P121	Dye degradation reaction by TiO ₂ /WO ₃ mixed photocatalyst	<u>Tetsuhito Hoshino</u> , Hideyuki Okumura, Takaya Ogawa, Keiichi N. Ishihara	Kyoto University
P122	Atomically dispersed copper coordinated by carbon nitride enabling efficiently photocatalytic drinking water disinfection	<u>Hang Liu</u> , TianYi Wang, Sixiao Liu, Xiaoyu Zhou, Lei Zhang, Chengyin Wang, Zhengyuan Teng	Yangzhou University
P123	Visible-light-responsive Ir and La-codoped K _{1-x} Na _x TaO ₃ photocatalysts for water splitting	<u>Haruka Misono</u> , Akihide Iwase	Meiji University
P124	Acceleration of visible light induced hydrogenation by introducing Br to organic modifiers fixed on titanium dioxide: A novel method for better photocatalytic material conversion	<u>Hibiki Toda</u> , Yuhei Yamamoto, Atsuhiko Tanaka, Hiroshi Kominami	Kindai University
P125	Degradation performance of TiO ₂ photocatalysts in seawater	<u>Yoshitaka Yamaguchi</u>	National Institute of Maritime, Port and Aviation Technology
P126	Cyano-embedded graphitic carbon nitride structures doped with boron for efficient photocatalytic oxygen reduction	<u>Hossein Fattahimoghaddam</u> , Tahereh Mahvelati-Shamsabadi, Byeong-Kyu Lee	University of Ulsan
P127	Boron-doping MOF-derived hierarchical manganese iron spinel for highly efficient seawater oxidation	<u>Meng Chen</u> , Nutthaphak Kitiphathipiboon, Abuliti Abudula, Guoqing Guan	Hirosaki University
P128	Stable electrolysis of ammonia on platinum enhanced by methanol in non-aqueous electrolyte for an in-situ hydrogen production	<u>Xue Yang</u> , Han Sun, Chuntong Liu, Haijun Chen	Nankai University
P129	Self-source corrosion of three-dimensional nickel foam induced by iron hydrolysis to prepare high-efficiency electrocatalyst for water oxidation	<u>Zhaolong Wang</u> , Jian Bao, Huaming Li, Hui Xu	Jiangsu University
P130	Efficacious CO ₂ photoconversion to C ₂₊ hydrocarbons using K ₂ Fe ₂ O ₄ /rGO heterojunction as catalysts	<u>Hung-Lin Chen</u> , Fu-Yu Liu, Yu-Yun Lin, Chiing-Chang Chen, Dechun Zou	National Taichung University of Education

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-2

No.	Title of Paper	Authors	Affiliation
P131	Developing a dual-functional electrocatalyst for sustained seawater electrolysis	<u>Nutthaphak Kitiphatpiboon</u> , Meng Chen, Abuliti Abudula, Guoqing Guan	Hirosaki University
P132	Catalytic desulfurization of liquid fuel via oxidation over ZrO ₂ @nitrogen-doped porous carbon, derived from zirconium chloride-loaded metal-azolate framework-6	<u>Md. Mahmudul Hassan Mondol</u> , Sung Hwa Jung	Kyungpook National University
P133	Acid property of SiO ₂ -Al ₂ O ₃ supported tungsten sulfide catalysts	<u>Takeyuki Nogami</u> , Hiroki Miura, Tetsuya Shishido	Tokyo Metropolitan University
P134	Low-temperature selective EDH over YCrO ₃ perovskite	<u>Kosuke Watanabe</u> , Takuma Higo, Shun Maeda, Hideaki Tsuneki, Kunihide Hashimoto, Yasushi Sekine	Waseda University
P135	Alkaline earth metal cation doping on LaAlO ₃ perovskite catalysts for low-temperature oxidative coupling of methane in an electric field	<u>Harunobu Tedzuka</u> , Yuna Takeno, Shuhei Ogo, Kota Murakami, Takuma Higo, Hideaki Tsuneki, Jeong Gil Seo, Yasushi Sekine	Waseda University
P136	Hydrogen production by steam reforming of liquefied natural gas (LNG) over mesoporous nickel-based catalysts promoted with nonmetal boron	<u>ChangJin Han</u> , Seungwon Park, Do Heui Kim	Seoul National University
P137	Reverse water-gas shift reaction via chemical looping on Co-In ₂ O ₃	<u>Sota Kakihara</u> , Jun-Ichiro Makiura, Takuma Higo, Naoki Ito, Yuichiro Hirano, Yasushi Sekine	Waseda University
P138	Plastic upcycling to liquid fuels and wax at mild conditions	<u>Achmad Buhori</u> , Chun-Jae Yoo ¹	Korea Institute of Science and Technology
P139	Development of Ni nanoparticle encapsulated with Silicalite-1 catalyst for high activity steam reforming of bio-ethanol with coke suppression ability	<u>Sirintra Arayawate</u> , Tsuki Yokosawa, Hiroyasu Fujitsuka, Teruoki Tago	Tokyo Institute of Technology
P140	Catalytic-pyrolysis of plastic wastes in high efficient hydrogen production by MOF-derived NiO/CeO ₂ catalyst	<u>Chang-Yen Hsu</u> , Wei-Ting Chung, Ren-Xuan Yang, Kevin C.-W. Wu	National Taiwan University

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-2

No.	Title of Paper	Authors	Affiliation
P141	Plasmonic nanoparticle loaded Al-SrTiO ₃ supported with Rh/Cr ₂ O ₃ and CoOOH cocatalysts for hydrogen production	<u>M. Abd Elkodous</u> , Aziz Aatiqah, Go Kawamura, Wai Kian Tan, Atsunori Matsuda	Toyohashi University of Technology
P142	Practical method for glycolysis of polyethylene terephthalate (PET) over zero-valent zinc (ZVZ)	<u>Yu-Wen Chiao</u> , Weisheng Liao, Kevin C.-W. Wu	National Taiwan University
P143	Development of facile methods for Pt nanosheet preparation by using stacked graphene oxides	<u>Yuki Mido</u> , Tatsuki Nakamae, Sakae Takenaka	Doshisha University
P144	Removal of Cs ⁺ with Zincosilicate zeolites	<u>Yudai Shimizu</u> , Makoto Sano, Takanori Miyake	Kansai University
P145	ZnO nanopagoda arrays as a novel photoanode for photoelectrochemical water splitting	<u>M. M. Abouelela</u> , Go Kawamura, Wai Kian Tan, Atsunori Matsuda	Toyohashi University of Technology
P146	Development of an efficient desulfurization method for aromatic organic sulfur compounds in fuel using ultraviolet light	<u>Taka-Aki Shinozaki</u> , Masahiko Suenaga, Yohan Ko, Eiji Yamamoto, Haruno Murayama, Makoto Tokunaga	Kyushu University
P147	Direct oxidation of methane to methanol by metal-organic framework: influence of the catalyst copper content on methanol productivity	<u>Thielle Nayara Vieira de Souza Ferreira</u> , Janaina Fernandes Gomes, Jose Mansur Assaf	Federal University of São Carlos
P148	Direct methane reforming –Effect of coexisting H ₂ O and CO ₂ –	<u>Rei Satoh</u> , Koichiro Iwama, Noriyasu Okazaki	Kitami Institute of Technology
P149	Steam reforming of methanol using metal-introduced NiCuAl-LDH with chelating agent	<u>Taisei Akagi</u> , Naoki Ikenaga	Kansai University
P150	Direct Methane reforming reaction using biomethane	<u>Sho Fukushima</u> , Koichiro Iwama, Noriyasu Okazaki	Kitami Institute of Technology

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-2

No.	Title of Paper	Authors	Affiliation
P151	Direct methane reforming reaction - Alumina addition effect in iron oxide catalyst	<u>Yohei Sakurai</u> , Noriyasu Okazak	Kitami Institute of Technology
P152	A comparative analysis of energy performance and process simulation of different hydrogen production methods	<u>Rohit Dalal</u> , Sunit Kumar Singh, Roshan Wathore, Nitin Labhasetwar	CSIR-National Environmental Engineering Research Institute, India
P153	Direct methane reforming -preparation of Fe ₂ O ₃ /Al ₂ O ₃ catalysts-	<u>Koichiro Iwama</u> , Noriyasu Okazaki	Kitami Institute of Technology
P154	Unravelling the structure-activity relationship of Cu-ZnO-Al ₂ O ₃ catalysts relevant to clean hydrogen production via water-gas shift reaction	<u>Seon-Yong Ahn</u> , Won-Jun Jang, Hyun-Seog Roh	Yonsei University
P155	Hydrogen formation from natural methane hydrates collected off tokachi, the pacific ocean	<u>Masaya Arai</u> , Hirotoshi Sakagami, Noriyasu Okazaki, Satoshi Yamashita, Akihiro Hachikubo, Masaaki Konishi, Kazutaka Tateyama, Masato Kida, Hirotosugu Minami	Kitami Institute of Technology
P156	Screening of active metal supported on SiO ₂ for dry reforming of methane (DRM)	Bogyung Kim, Haehyun Min, Sung Bong Kang	Gwangju Institute of Science and Technology
P157	Modulating the metal-support interactions of ceria-supported catalysts for hydrogen production from waste	<u>Kyoung-Jin Kim</u> , Yeol-Lim Lee, Ga-Ram Hong, Hyun-Seog Roh	Yonsei University
P158	Direct conversion of dimethyl ether (DME) to gasoline range hydrocarbons over ZSM-5: Effect of zeolite morphology to product distribution	<u>Mansoor Ali</u> , Faisal Zafar, Jong Wook Bae	Sungkyunkwan University
P159	Colorimetric determination of glucose by SAT-3 using modified CoFe ₂ O ₄ magnetic catalyst	<u>Kurumi Matsui</u> , Hideyuki Katsumata, Mai Furukawa, Ikki Tateishi, Satoshi Kaneco	Mie University
P160	Dynamically shrinkable nanocarrier for Significantly improving the activity of the cocatalysts in Fenton-like reaction	<u>Chun He</u> , Lingzhi Wang, Jinlong Zhang	East China University of Science and Technology

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-2

No.	Title of Paper	Authors	Affiliation
P161	Transition metal phosphides with dual active sites in Fenton-like system for water treatment	Xiuying Li, <u>Zhu Wang</u> , Zhao-Qing Liu	Guangzhou University
P162	Hydrangea-like NiCo ₂ S ₄ activated peroxymonosulfate for efficient PPCPs degradation: kinetics, intermediates and reaction mechanism	<u>Ziling Zhu</u> , Feng Li, Haidong Yu, Ling Wu	Wuhan University of Science and Technology
P163	Determination of H ₂ O ₂ with PPD oxidation using Ni-CoFe ₂ O ₄	<u>Maiko Shibata</u> , Hideyuki Katsumata, Mai Furukawa, Ikki Tteishi, Satoshi Kaneco	Mie University
P164	Realization of subnano-in-meso architecture with rectification and monovalent ion selectivity for enhanced blue energy conversion	<u>Hoong-Uei Koh</u> , Pei-Ching Tsai, Li-Hsien Yeh, Kevin C.-W. Wu	National Taiwan University
P165	Degradation of antibiotic by accelerated oxidation method using CoFe ₂ O ₄	<u>Shotarou Kawakami</u> , Hideyuki Katsumata, Mai Furukawa, Ikki Tateishi, Satoshi Kaneco	Mie University
P166	Amorphous aluminosilicates as efficient ion exchangers for ammonium cations from aqueous solutions	<u>M. Takemura</u> , R. Simancas, K. Iyoki, T. Okubo, T. Wakihar	The University of Tokyo
P167	Heterogeneous Cu(III) mediated PMS activation over CuO nanosheets for highly efficient degradation of phenols	<u>Yan Wei</u> , Mingce Long	Shanghai Jiao Tong University
P168	Photocatalytic decolorization of rhodamine B in aqueous solution with CuO/Sn ₃ O ₄ nanocomposite	<u>Ayata Ohnishi</u> , Mai Furukawa, Ikki Tateishi, Hideyuki Katsumata, Satoshi Kaneco	Mie University
P169	Elucidating mechanism of piezoelectrocatalytic degradation of the organic pollutants from aqueous solution	<u>Onkar Sudhir Ekande</u> , Mathava Kumar	Indian Institute of Technology Madras
P170	High-performance capacitive deionization using multi-metal ZIF-derived, N-doped porous carbon with embedded carbon nanotube	<u>Hsi-Yen Wu</u> , Chih-Yu Ma, Chia-Hung Hou, Kevin C.-W. Wu	National Taiwan University

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Poster Presentation, Aug. 1st (Mon) 18:30-20:00 (Japan Standard Time) Room P-2

No.	Title of Paper	Authors	Affiliation
P171	Preconcentration of trace heavy metals for determination by graphite furnace atomic absorption spectrometer	<u>Takayuki Fujihara</u> , Mai Furukawa, Hideyuki Katsumata, Ikki Tateishi, Satoshi Kaneko	Mie University
P172	Band gap tuning of g-C ₃ N ₄ /TiO ₂ by vapor phase deposition for enhanced solar photocatalytic degradation of metformin	Sandeep S. Haral, <u>Farhan F. Shaikh</u> , Lekharaj C. Mahajan, Parag Nemade	Institute of Chemical Technology Mumbai
P173	Enhanced photocatalytic NO oxidation performance of TiO ₂ hollow microspheres via introduction of oxygen vacancy	Zhao Hu, <u>Kaining Li</u> , Kangle Lv, Hiromi Yamashita	South-Central Minzu University
P174	Effects of central metals on photochemical water oxidation activities of doubly N-confused hexaphyrin Complexes	<u>Daichi Sugawara</u> , Takashi Nakazono, Tohru Wada	Rikkyo University
P175	Design of plasmonic catalysts using nanostructured materials for hydrogen and carbon cycling	<u>Hiromi Yamashita</u> , Kohsuke Mori, Yasutaka Kuwahara, Tetsutaro Ohmichi	Osaka University

Program of ICEC2022 (Japan Standard Time)

		July 31st (Sun)				August 1st (Mon)				August 2nd (Tue)				
July 30th (Sat)		Room A	Room B	Room C	Room D	Room A	Room B	Room C	Room D	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		Break				Break				Break				
		KN-1 Hong He	OB01	OC01	OD01	OA16	KN-6 Do Heui Kim	OC18	OD18	KN-10 Jingguang Chen	OB33	OC35	OD23	
			OB02	OC02	OD02	OA17		OC19	OD19		OB34	OC36	OD24	
11:00		OA01	OB03	OC03	OD03	OA18	OB18	OC20	OD20	OA33	OB35	OC37	OD25	
		OA02	KN-2 Todd J. Toops	OC04	OD04	OA19	OB19	OC21	OD21	OA34	OB36	OC38	KN-11 Atsushi Urakawa	
		OA03		OC05	OD05	OA20	OB20	OC22	OD22	OA35	OB37	OC39		
12:00		Lunch				Lunch				Lunch				
13:00								Special Session						
		KN-3 Michael Stockenhuber	OB04	OC06	OD06	KN-7 Masaru Ogura	OB21	OC23	OD26	OA36	KN-12 Jiaguo Yu	OC40	OD26	
			OB05	OC07	OD07		OB22	OC24	OD27	OA37		OC41	OD27	
		OA04	OB06	OC08	OD08	OA21	OB23	OC25	OD28	OA38	OB38	OC42	OD28	
14:00	Registration	OA05	OB07	OC09	OD09	OA22	OB24	OC26	OD29	SIL-03	KN-13 Wonyong Choi	OC43	OD29	
		OA06	OB08	OC10	OD10	OA23	OB25	OC27	OD30	SIL-04		OC44	OD30	
		OA07	OB09	KN-4 Yongdan Li	OD11	OA24	KN-8 Kevin C. W. Wu	OC28	OD31	SIL-05	OA39	OB41	OC45	KN-14 Ning Yan
15:00			OA08	OB10	OC29	OD12	OA25		OC29	OD32	OA40	OB42	OC46	OD32
16:00		Break				Break				Break				
	Opening	OA09	OB11	OC11	OD13	OA26	OB26	OC30	OD31	SIL-06	OA41	OB43	KN-15 Anne Giroir- Fendler	
		OA10	OB12	OC12	OD14	OA27	OB27	OC31	OD32	SIL-07	OA42	OB44	OC47	
17:00	PL-1 Christopher Hardacre	OA11	OB13	OC13	OD15	OA28	OB28	OC32	OD33	SIL-08	OA43	OB45	OC48	
		OA12	OB14	KN-5 Stefan Marx	OD16	OA29	OB29	KN-9 Gabriele Centi	OD34	SIL-09	KN-16 Jan-Dierk Grunwaldt	OB46	OC49	
		OA13	OB15	OC15	OD17	OA30	OB30	OC33	OD35	SIL-10	OA44	OB47	OC50	
18:00		OA14	OB16	OC16	OD18	OA31	OB31	OC34	OD36	SIL-10	OA45	OB48	OC51	
		OA15	OB17	OC17	OD19	OA32	OB32	OC34	OD37	Closing				
19:00		Break				Break				Break				
		Short Presentation of Poster (Room A) in-person only	Poster P01 - P40 (Room P-1)	Poster P41 - P83 (Room P-2)	Short Presentation of Poster (Room A) in-person only	Poster P84 - P130 (Room P-1)	Poster P131 - P175 (Room P-2)			Closing				
20:00														

Presentation time including Q&A (min)	
Plenary	60
Keynote	40
Special Invited	25
Invited	20
Oral	20
Poster	90
Short Presentation	5