05/06/2025		
Room PR - Plenary		
08:50 – 09:30	KP2	Chemistry Europe Lecturer Annemie Bogaerts – Research group PLASMANT, Department of Chemistry - University of Antwerp, Campus Drie Eiken, Wilrijk-Antwerp, Belgium *Plasma catalysis: Complex chemical and physical mechanisms*
09:40 – 10:00	OR91	Patrick Da Costa – Sorbonne Université, Institut Jean Le Rond d'Alembert, CNRS UMR 7190, Saint-Cyr-L'Ecole (France) *On the structure reactivity and synthesis strategy of mixed-oxides prepared by microwave-assisted solution combustion synthesis – XAS and XRD operando study* Paulina Summa1,2, Katarzyna Świrk Da Costa 3, Li Li 4, Magnus Rønning 3, Monika Motak 2, Marta Gajewska 5, Changwei Hu 4, Patrick Da Costa 1, * 1 Sorbonne Université, Institute Jean Le Rond d'Alembert, CNRS UMR 7190, 2 pl. de la gare de ceinture, Saint-Cyr-L'Ecole, France 2 AGH University of Science and Technology, Faculty of Energy and Fuels, Al. A. Mickiewicza 30, Kraków, Poland 3 Norwegian University of Science and Technology, Department of Chemical Engineering, Sem Sælands vei 4,Trondheim, Norway 4 Sichuan University, Key Laboratory of Green Chemistry and Technology, Ministry of Education, College of Chemistry, Chengdu, PR China 5 AGH University of Science and Technology, Academic Centre for Materials and Nanotechnology, Al. A. Mickiewicza 30, Kraków, Poland
10:00 – 10:20	OR92	Oscar Furst – KIT, Institute for Chemical Technology and Polymer Chemistry, Karlsruhe (Germany) *Comparative assessment of power-to-methane technologies for sustainable synthetic natural gas production* Oscar Furst1, Daniel Schmider2, Julian Dailly2, Olaf Deutschmann*,1 1Karlsruhe Institute of Technology, Institute for Chemical Technology and Polymer Chemistry, Kaiserstraße 12, Karlsruhe, Germany. 2European Institute for Energy Research, Emmy-Noether-Straße 11, Karlsruhe, Germany.
10:20 – 10:40	OR93	Weijie Ji – Key Laboratory of Mesoscopic Chemistry, MOE, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing (China) *Very efficient yet durable urea electrosynthesis via carbon dioxide and nitrate over the defect-rich In2O3 nanotube* Hongjun Fang, Chen-Han Kuo, Hongsheng Yang, Ze Wang, Xinzhen Feng, Weijie Ji* Key Laboratory of Mesoscopic Chemistry, MOE, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210023, China
10:40 – 11:00	OR94	Yanggeun Ju - School of Environment and Energy Engineering, Gwangju Institute of Science and Technology, Gwangju (Republic of Korea) *Enhancing Low-Temperature CO2 Methanation: The Role of Praseodymium Oxide in Ni-Based Catalysts* Yanggeun1, Junseo Park1, Sung Bong Kang*,1 1School of Environment and Energy Engineering, Gwangju Institute of Science and Technology, Gwangju, 61005, Republic of Korea
11:00 – 11:20	Coffee-Break	
		Short Orals
11:20 – 11:30	SO91	Hilmar Guzman – IIT – Istituto Italiano di Tecnologia, Turin (Italy) *Scaling-up the electrocatalytic CO2 capture and conversion to Syngas* Hilmar Guzmána,b*, Federica Zammillo a, Roger Miró d, Alberto Lopera e, Adrianna Nogalska d, María J. López-Tendero e, Miriam Díaz de los Bernardos d, Simelys Hernández a,b,c. a CREST group, Department of Applied Science and Technology (DISAT), Politecnico di Torino, C.so Duca degli Abruzzi, 24, 10129, Turin, Italy. b IIT – Istituto Italiano di Tecnologia, Via Livorno, 60, 10144, Turin, Italy. c Clean water center (CWC),Politecnico di Torino, C.so Duca degli Abruzzi, 24, 10129, Turin, Italy.

		d Eurecat, Centre Tecnològic de Catalunya, Unitat de Tecnologia Química, C/Marcel·lí Domingo, 2, 43007 Tarragona, Spain. e Laurentia Technologies, Avda. Benjamin Franklin, 12 (CEEI), Parque Tecnológico/ 46980-Paterna, Valencia, Spain.
11:30 – 11:40	SO92	Renzo Leeflang – Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford (UK) *Alkali Metal Promotion in Higher Alcohols and Olefin formation from CO2 Hydrogenation: Shifting the Reaction Mechanism* Renzo A. Leeflang*1, Sijie Huang1, Edman S.C. Tsang1, Guangchoa Li2 1Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford OX1 3QR, United Kingdom 2 Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong
11:40 – 11:50	SO93	Li Li – Key Laboratory of Green Chemistry and Technology, Ministry of Education, College of Chemistry, Sichuan University (China) *Design of novel inverse ZrO2/Ni catalysts for CO2 utilization: from CO2 to syn-methane* Li Li 1,2, Patrick Da Costa*,2, Changwei Hu*,1 1 Key Laboratory of Green Chemistry and Technology, Ministry of Education, College of Chemistry, Sichuan University, Chengdu 610064, China. 2 Institut Jean Le Rond d'Alembert, Sorbonne Université, CNRS UMR 7190, 2 place de la gare de ceinture, Saint Cyr L'Ecole, France.
11:50 – 12:00	SO94	Luca Lietti – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Milan (Italy) *Storage element – catalyst interaction on different supports for cyclic CO2 capture and methanation* Giuseppe Nava1, Alessandro Porta1, Roberto Matarrese1, Carlo Giorgio Visconti1, Luca Lietti1* 1Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano – Via La Masa 34, 20156 Milan, Italy
		Orals
12:00 – 12:20	OR123	Marco Etzi Coller Pascuzzi – Istituto Italiano di Tecnologia, Center for Sustainable Future Technologies, Torino (Italy) *Maximizing the efficiency of Ir-based oxygen evolution electrocatalysts through Ni doping* Anna Giulia Cardone1,2, Fabrizio Pirri1,2, Marco Etzi*,1 1 Istituto Italiano di Tecnologia, Center for Sustainable Future Technologies, Via Livorno 60, 10144, Torino, Italy. 2 Politecnico di Torino, Dept. of Applied Science and Technology, Corso Duca degli Abruzzi 24, 10129, Torino, Italy.
12:20 – 12:40	OR124	Daniela Cozza – Chemical Engineering Catalysis and Sustainable Processes Laboratory, University of Calabria, Rende (Italy) *Catalytic methane cracking over amorphous and regular structured carbons* Enrico Catizzone, Daniela Cozza, Girolamo Giordano*, Massimo Migliori, Chemical Engineering Catalysis and Sustainable Processes Laboratory, University of Calabria, Rende, Italy.
12:40 – 13:00	OR95	Matteo Guidotti – CNR-SCITEC, Milan (Italy) *Zirconia-based inorganic oxide catalysts for the abatement of highly toxic agrochemicals and chemical warfare agent simulants* Stefano Econdi1, Nicola Scotti1, Filippo Bossola1, Stefano Marchesi2, Chiara Bisio1,2, Fabio Carniato2, Matteo Guidotti*1 1CNR-SCITEC, via Golgi 19, Milan, Italy 2DISIT, University of Eastern Piedmont "Amedeo Avogadro", via Michel 11, Alessandria, Italy
13.00 – 15:00	Lunch Break	
		Short Orals
15:00 – 15:10	SO95	Kristijan Lorber – National Institute of Chemistry, Ljubljana (Slovenia)

		CO2 activation dictates catalytic performance on different CeO2 morphologies in the low temperature DRM reaction Petar Djinović1,2, Kristijan Lorber*,1 1National Institute of Chemistry, Ljubljana, Slovenia. 2 University of Nova Gorica, Nova Gorica, Slovenia.
15:10 – 15:20	SO96	Shokouhallsadat Masoumilari – Department of Civil and Environment Engineering, University of Ulsan, Ulsan (Republic of Korea) *Dual-Function Bi-Based Electrodes for Coupled CO_2 Reduction and Glycerol Oxidation* Shokouh Masoumi1, Zohreh Masoumi1, Daeseung Kyung*,1 1 Department of Civil and Environment Engineering, University of Ulsan, Daehakro 93, Namgu, Ulsan 44610, Republic of Korea
15:20 – 15:30	SO97	Federica Orabona – Åbo Akademi, Laboratory of Industrial Chemistry and Reaction Engineering (TKR), Turku/Åbo (Finland) *CO2 cycloaddition to limonene diepoxide: catalysis, kinetics and mass transfer* Federica Orabona*,1,2, Stefano Napolitano1,2, Veronika D. Badazhkova2, Wander Perez-Sena2, Kari Eränen2, Martino Di Serio1, Dmitry Murzin2, Vincenzo Russo1,2, Tapio Salmi1,2 1Università di Napoli 'Federico II', Chemical Sciences, IT-80125 Napoli, Italy 2Åbo Akademi, Laboratory of Industrial Chemistry and Reaction Engineering (TKR), FI-20500 Turku/Åbo, Finland
15:30 – 15:40	SO98	Andrea Rizzetto – POLITO, Department of Applied Science and Technology (DISAT), Turin (Italy) *Low-content Ru catalysts for efficient atmospheric CO_2 methanation* Andrea Rizzetto, Marco Pietro Mezzapesa, Enrico Sartoretti, Fabio Salomone, Marco Piumetti, Raffaele Pirone, Samir Bensaid* Politecnico di Torino, Department of Applied Science and Technology (DISAT), Corso Duca degli Abruzzi 24, 10129, Turin, Italy.
15:40 – 15:50	SO99	Matteo Maestri – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Milano (Italy) *Deciphering Effects of Nanoparticles Shape and Size on the Structure Sensitivity of the CO2 Methanation Reaction on Ni* Gabriele Spano',1‡ Matteo Ferri,1‡ Raffaele Cheula,1 Matteo Monai,2 Bert M. Weckhuysen,2 Matteo Maestri1* 1Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34, 20156, Milano, Italy. 2Inorganic Chemistry and Catalysis Group, Institute for Circular and Sustainable Chemistry and Debye Institute for Nanomaterials Science, Utrecht University,
15:50 – 16:00	SO100	Paolo Squillaci – ChiBioFarAm – University of Messina, ERIC aisbl and CASPE/INSTM, Messina (Italy) *Enhancing CO2ER to ethylene over CuO electrodes by Ni and B modification* Paolo Squillaci*, G. Papanikolaou, P. Lanzafame, D. Chillè, S. Perathoner and G. Centi Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) – University of Messina, ERIC aisbl and CASPE/INSTM, V.le F. Stagno d'Alcontres 31, 98166 Messina, Italy.
16:00 – 16:10	SO101	Alessio Tauro – POLITO, Dept. of Applied Science and Technology, Turin (Italy) *Effect of zeolite acidity on pre-treated Fe-based catalysts for e-fuel production via CO2-modified Fischer-Tropsch Synthesis* Alessio Tauro1, Fabio Salomone*,1, Fabrizio Celoria1, Luca Nodari2, Luca Romagnoletti3, Emanuele Felli4, Raffaele Pirone1, Samir Bensaid1 1 Polytechnic of Turin, Dept. of Applied Science and Technology, Corso Duca degli Abruzzi 24, 10129 Turin, Italy. 2 Istituto di Chimica della Materia Condensata e di Tecnologie per l'Energia (ICMATE), Consiglio Nazionale delle Ricerche (CNR), C.so Stati Uniti 4, 35127 Padova, Italy. 3 API Raffineria di Ancona S.p.A., Via Flaminia 685, 60015 Falconara Marittima (AN), Italy.

		4 Italiana Petroli S.p.A., Via Salaria 1322, 00138 Roma, Italy.
16:10 – 16:20	SO102	Luca Lietti – Laboratory of Catalysis and Catalytic Processes, Department of Energy Politecnico di Milano, Milano (Italy) *Promoted Fe catalyst for direct conversion of CO_2 into e-crude* Mattia Piacentini1, Beda Rolandi1, Alessandro Porta1, Luca Lietti1, Carlo Giorgio Visconti1* Laboratory of Catalysis and Catalytic Processes, Department of Energy Politecnico di Milano, via La Masa 34, 20156, Milano ITALY
16:20 – 16:30	SO103	withdrawn
16:30 – 16:40	SO104	Kinga Mlekodaj – J. Heyrovský Institute of Physical Chemistry of the CAS, Prague (Czech Republic) *Effective upgrade of CO2 and CH4 to high-value products over iron-containing Al-rich *BEA zeolite* Kinga Mlekodaj1, Kinga Gora-Marek*,2, Karolina Tarach2, Julia Sobalska 2,3, Agnieszka Kornas1, Radim Pilar1, Dalibor Kaucky1, Edyta Tabor*,1 1J. Heyrovský Institute of Physical Chemistry of the CAS, v. v. i., Dolejškova 2155/3, 182 23 Prague 8, Czech Republic. 2Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, 30-387 Kraków, Poland. 3 Doctoral School of Exact and Natural Sciences, Jagiellonian University in Krakow, Łojasiewicza 11, 30-348 Krakow, Poland.
16:40 – 17:00	Coffee-Break	
17:00 – 17:20	OR96	Fabrizio Celoria – Dept. of Applied Science and Technology, Polytechnic of Turin, Turin (Italy) *Kinetic study and modeling for the methanation of CO2 and CO mixed syngas on a Ni/Al2O3 catalyst* Fabrizio Celoria1, Fabio Salomone1, Alessio Tauro1, Isabelle Champon2, Geneviève Geffraye2, Raffaele Pirone1, Samir Bensaid*,1 1Dept. of Applied Science and Technology, Polytechnic of Turin, Corso Duca degli Abruzzi 24, 10129 Turin, Italy. 2Université Grenoble Alpes, CEA, LITEN, DTBH, SCTR, LER, 17 Avenue des Martyrs, Grenoble, F-38054, France.
17:20 – 17:40	OR97	withdrawn
17:40 – 18:00	OR98	Hidenori Yahiro – Graduate School of Science and Engineering, Ehime University, (Japan) *Low Temperature-Water Gas Shift Reaction Using Perovskite-type Oxide Catalyst Containing Cerium Ion* Hidenori Yahiro1*, Noa Yamaguchi1, Satoshi Toshioka1, Hiroyuki Yamaura1, Syuhei Yamaguchi1, Anna Paola Panunzi2, Leonardo Duranti2, Elisabetta Di Bartolomeo2 1Graduate School of Science and Engineering, Ehime University, Matsuyama 790-8577, Japan 2Department of Chemical Sciences and Technologies, University of Rome Tor Vergata, via della Ricerca Scientifica, 00133 Rome, Italy
18:00 – 18:20	OR99	Bin Feng - State Key Laboratory of High-Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, Beijing (China) *Oxygen migration and oxidation pathway for soot oxidation in presence of NO by two-step isotope experiment* Zirui Zhang1,2, Cen Sun1,2, Xiaolin Wei1,2, Shaohua Wu3, Gehan A J Amaratunga4, Feng Bin1,2,*, Wenjun Liang5 1State Key Laboratory of High-Temperature Gas Dynamics, Institute of Mechanics, Chinese Academy of Sciences, Beijing 100190, China; 2School of Engineering Science, University of Chinese Academy of Sciences, Beijing 100049, China; 3 Dalian University of Technology, Dalian 116000, PR China; 4 Department of Engineering, University of Cambridge, CB3 0FA, Cambridge, United Kingdom; 5 Key Laboratory of Beijing on Regional Air Pollution Control, Beijing University of Technology, Beijing 100124, PR China.

18:20 – 18:40	OR100	Nicoletta Rusta – University of Cagliari, Department of Chemical and Geological Sciences, Cagliari (Italy) *Design of Ceria-based Catalysts via Self-Combustion Approaches for CO2 Conversion to Dimethyl Carbonate* Nicoletta RUSTA1,2*, Valentina Mameli1,2, Stefania Porcu2,3, Aryane A. Marciniak4, Evelyn C. S. Santos5, Odivaldo Cambraia Alves 6, Claudio J. A. Mota4,5,7, Elisabetta Rombi1,2, Carla Cannas1,2 1 University of Cagliari, Department of Chemical and Geological Sciences, Cagliari, Italy. 2 National Interuniversity Consortium of Materials Science and Technology (INSTM), Florence, Italy. 3 University of Cagliari, Department of Physics, , Cagliari, Italy. 4 Universidade Federal do Rio de Janeiro, Escola de Química, Rio de Janeiro, Brasil 5 Universidade Federal do Rio de Janeiro, Instituto de Química, Rio de Janeiro, Brasil 6 Universidade Federal Fluminense, Instituto de Química, Niterói, Brazil 7 INCT Energia & Ambiente, UFRJ, Brazil
		Short Orals
18:40 - 18:50	SO133	Fausto Secci – Department of Chemical and Geological Sciences, University of Cagliari, Monserrato (Italy) *Confined growth of ultrasmall NiO nanoparticles into mesostructured and mesoporous SiO2, γ-Al2O3 and CeO2 supports for CO2 methanation* Fausto Secci1,2*, Nicoletta Rusta1,2, Luciano Atzori1,2, Maria Giorgia Cutrufello1,2, Daniela Meloni1, Carla Cannas1,2, Elisabetta Rombi1,2 1Department of Chemical and Geological Sciences, University of Cagliari, Monserrato (CA), Italy 2National Interuniversity Consortium of Materials Science and Technology (INSTM), Florence, Italy
18:50 – 19:00	SO134	L. VALENTINO*,1, G. PANTALEO1, V. LA PAROLA1, A. GIROIR-FENDLER2, L.F. LIOTTA1 1 Institute for the Study of Nanostructured Materials (ISMN), National Research Council (CNR), Via Ugo La Malfa 153, 90146 Palermo, Italy 2Universite Claude Bernard Lyon 1, IRCELYON, UMR 5256 CNRS, 43 Boulevard du 11 Novembre 1918, Villeurbanne 69622, France.
19:00 – 19:10	SO135	Chiara Negri – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Milano (Italy) *A combined operando UV-vis and flow reactor study of the NH3-SCR redox kinetics over Cu-CHA* C. Negri1, N. Usberti1, G. Contaldo1, M. Bracconi1, I. Nova1, M. Maestri1*, E. Tronconi1* Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, 20156 Milano (Italy)
19:10 – 19:20	SO136	withdrawn
19:20 – 19:30	Closing	

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Room Massimo - RM		
09:40 – 10:00	OR101	shifted to OR90
10:00 – 10:20	OR102	Camilla Monacciani – POLITO, Department of Applied Science and Technology (DISAT), Turin (Italy) *TiO2 on Gold Nanostars Enhances Photocatalytic Water Reduction in the Near Infrared Regime* Camilla Monacciani, Debora Ferrari, Tiziano Dainese, Chiara Deriu, and Laura Fabris Polythecnic of Turin, Department of Applied Science and Technology (DISAT), Corso Duca degli Abruzzi 24, Turin, Italy

10:20 – 11:00	KN4	Jerome Canivet – Université Claude Bernard Lyon 1, CNRS, IRCELYON - UMR 5256, Villeurbanne (France) *Porous Macroligands for Heterogenized Photocatalytic Solar Fuel Production* Jérôme Canivet*, Emilien Chaigne--Tarlotin, Elsje Alessandra Quadrelli Université Claude Bernard Lyon 1, CNRS, IRCELYON - UMR 5256, 2 Avenue Albert Einstein, 69626 Villeurbanne Cedex, France
11:00 – 11:20	Coffee-Break	
		Short Orals
11:20 – 11:30	SO105	Ahmed Ragab Saleh Belmashkan – ChiBioFarAm, University of Messina, ERIC aisbl and INSTM/CASPE, Messina (Italy) *Electrification by Induction Heating for Sustainable Dehydrogenation of Ethylbenzene to Styrene* Ahmed Ragab Saleh Belmashkan,1 Gianfranco Giorgianni1, Vahideh Abbassi1, Siglinda Perathoner1, Gabriele Centi1, Angelo Ferrando2, Gianni Marchetti2, Salvatore Abate1* 1 Department of ChiBioFarAm (Industrial Chemistry), University of Messina, ERIC aisbl and INSTM/CASPE, V.le F. Stagno d'Alcontres 31, Messina 98166, Italy 2 Basic Chemical & Plastics Research Centre Versalis - Stabilimento di Mantova Via Taliercio 14, 46100 Mantova, Italy
11:30 – 11:40	SO106	Donatella Chillé – ChiBioFarAm, University of Messina, ERIC a.i.s.b.l. and CASPE/INSTM, Messina (Italy) *Modification of Ordered Mesoporous Carbon materials for Enhancing the Electrocatalytic Oxidation of Phenol to p-benzoquinone* Donatella Chillé*, Paolo Squillaci, Georgia Papanikolaou, Siglinda Perathoner, Gabriele Centi and Paola Lanzafame Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm), University of Messina, ERIC a.i.s.b.l. and CASPE/INSTM, V.le F. Stagno d'Alcontres 31, 98166 Messina, Italy
11:40 – 11:50	SO107	Mario Samperi – Institute of Advanced Technology for Energy CNR-ITAE, Messina (Italy) *Unveiling the deactivation process of Amberlyst-15 in the etherification reaction of glycerol with ethanol* Mario Samperi1, Giuseppe Bonura1, Mariarita Santoro1, Serena Todaro1, Alessandro Cajumi2, Mauro Failla1, Francesco Arena2, Catia Cannilla1 1Institute of Advanced Technology for Energy CNR-ITAE, S. Lucia sopra Contesse 5, 98126 Messina, Italy. 2University of Messina, Dept. of Engineering, c.da Papardo, 98166 Messina, Italy.
11:50 – 12:00	SO108	Stefano Savino – ICCOM-CNR, SS Bari, Bari, Italy. *Steel slag as a highly efficient catalyst for hydrodeoxygenation of fatty acids: from a residue to a precious material for renewable fuels production* Stefano Savino1,*, Giuseppe Guglielmo2, Rosella Attrotto2, Elena Ghedini3, Michele Casiello1, Fiorenza Fanelli1, Lucia D'accolti1,3, Angelo Nacci1,3 1 ICCOM-CNR, SS Bari, Via Orabona 4, 70126 Bari, Italy. 2 Research and Development Department, Acciaierie d'Italia S.p.A., SS Appia km 648, 74123 Taranto, Italy. 3 Chemistry Department, Università degli Studi di Bari Aldo Moro, 70125 Bari, Italy.
		Orals
12:00 – 12:20	OR103	Michele Bigica – Dipartimento di Chimica, Università degli Studi di Milano, Milano (Italy) *Innovative metal functionalized hydroxyapatite/carbon nitride nanocomposite material to enhance co2 electroreduction to formate* Michele Bigica,1 Sebastiano Campisi,1 Antonella Gervasini,1 Pierangela Cristani,2 Andrei Khodakov,3 Vitaly Ordomsky3 1 Dipartimento di Chimica, Università degli Studi di Milano, 20133 Milano, Italy 2 Ricerca sul Sistema Energetico - RSE S.p.A., 20134 Milano, Italy 3 CNRS-UCCS, 59650 Villeneuve d'Ascq Cedex, France

12:20 – 12:40	OR104	Antoinette Maarawi Chidraoui – Univ Grenoble Alpes, CEA, Liten, DTCH, Laboratoire Réacteurs et Procédés (LRP), Grenoble (France) *Direct hydrogenation of CO2 into liquid hydrocarbons: kinetics and reactor design* Antoinette Maarawi Chidraoui*,1, Carlotta Panzone1, Alban Chappaz1, Geneviève Geffraye1, Albin Chaise1 1Univ Grenoble Alpes, CEA, Liten, DTCH, Laboratoire Réacteurs et Procédés (LRP), 38000 Grenoble, France.
12:40 – 13:00	OR105	Maria Rosaria Acocella – University of Salerno, Department of Chemistry and Biology "A Zambelli", Fisciano (Italy) *CO2 Sorption Accelerated by Mechanical Grinding* Maria Rosaria Acocella *1, Aida Kiani,2 Katerina Kostantinova Charakova1 1University of Salerno, Department of Chemistry and Biology "A Zambelli", Via Giovanni Paolo II, 132-84080- Fisciano (Salerno) Italy
13:00 – 15:00	Lunch break	
		Short Orals
15:00 – 15:10	SO109	Kosuke Watanabe - Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo (Japan) *Oxidative dehydrogenation of ethane combined with CO2 splitting via chemical looping technique utilising redox of In2O3* Kosuke Watanabe1, Takuma Higo1, Koki Saegusa1, Sakura Matsumoto1, Hiroshi Sampei1, Yuki Isono2, Akira Shimojuku2, Hideki Furusawa2, And Yasushi Sekine1* 1Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo 169-8555, Japan. 2JX Advanced Metals Corporation, Isohara Branch, Technology Develop Center, Kitaibaraki, Ibaraki 319-1535, Japan.
15:10 – 15:20	SO110	Lijiang Fan – Tokyo University of Agriculture and Technology, Tokyo (Japan) *Structurally Controllable Strong Acid Mesoporous Catalyst SBA-15-TESBS: Synthesis and Application in Biodiesel Production* Lijiang Fan 1, Eika Qian 1, Kenji Kamiya 1, Peng Mingming 1 1 Tokyo University of Agriculture and Technology.
15:20 – 15:30	SO111	Juan Jose Villora-Pico – School of Chemistry and Chemical Engineering, Queen's University Belfast (UK). *Designing Holistic Biorefinery Solutions: Process Optimisation and Technoeconomic Viability of Glycerol derived High Energy-Density Fuel Additives* John Keogh, Manish Tiwari, Callum Jeffrey, Krutarth Pandit, and Haresh Manyar* School of Chemistry and Chemical Engineering, Queen's University Belfast, David-Keir Building, Stranmillis Road, Belfast, BT9 5AG, UK.
15:30 – 15:40	SO112	withdrawn
15:40 – 15:50	SO113	Emilia Paone – Dipartimento DICEAM, Università degli Studi Mediterranea di Reggio Calabria, (Italy) *Spent Lithium Cobalt Oxide Batteries: Heterogeneous Catalyst for Upcycling Lignocellulosic Biomass* Emilia Paone*,1,2, Giulia Maria Itri1, Francesco Mauriello1 1 Dipartimento DICEAM, Università degli Studi Mediterranea di Reggio Calabria, (Italy)
15:50 – 16:00	SO114	Rosalba Passalacqua – ChiBioFarAm & INSTM CASPE (Lab. of Catalysis for Sustainable Production & Energy, Messina (Italy) *Conversion of glucaric acid to adipic acid by Pd−ReOx catalyst supported on carbon-based materials* Rosalba Passalacqua*1, Salvatore Abate1, Siglinda Perathoner1, Gabriele Centi1, Alfredo Aloise2, Cristiano Maesanii3, Claudia Castelli3, Stefano Alini3 1 University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) & INSTM CASPE (Lab. of Catalysis for Sustainable Production & Energy, Viale F. Stagno d'Alcontres 31, 98166 Messina, Italy 2 Department of Physical and Chemical Sciences, University of L'Aquila, via Vetoio, Coppito 2 67100 L'Aquila, Italy 3 Radici Group, Via G. Fauser, 50, Novara 28100 - Italy
16:00 – 16:10	SO115	Marco Russo – Institute of Nanostructured Materials, ISMN-CNR, Palermo (Italy)

		Sulfonated metal oxide catalysts for the cascade conversion of levulinic acid to isopropyl levulinate and γ-valerolactone Marco Russo*, Chiara Aliotta, Valeria La Parola, Giuseppe Pantaleo, Maria Luisa Testa Institute of Nanostructured Materials, ISMN-CNR, Via Ugo La Malfa 153, 90146 Palermo, Italy.
16:10 – 16:20	SO116	Giuseppe Salierno – University of Bologna, "Toso Montanari" Department of Industrial Chemistry, Bologna (Italy) *Model molecule investigation for the reductive catalytic fractionation of lignin using innovative magnetic catalysts* Federico Bugli1, Giuseppe Salierno1,2, Fabrizio Cavani1,3, Tommaso Tabanelli*,1,3 1 University of Bologna, "Toso Montanari" Department of Industrial Chemistry, Via Piero Gobetti 85, 40129, Bologna, Italy. 2 University of Perugia, Department of Chemistry, Biology and Biotechnology, Via Elce di Sotto 8, 06132, Perugia, Italy. 3 University of Bologna, Center for Chemical Catalysis - C3, Via Piero Gobetti 85, 40129, Bologna, Italy.
16:20 – 16:30	SO117	withdrawn
16:30 – 16:40	SO118	Valérie Theuns – Univ. Lille, CNRS, UCCS – Unité de Catalyse et Chimie du Solide, Lille (France) *Exploring BaTiO3-Derived Materials for Advancing SOFC Electrode Performance* Valerie Theuns*1, Donovan Ledru2, Marie-Hélène Chambrier2, Aurélie Rolle1, Anne-Sophie Mamede1, Héloïse Tissot1, Elise Berrier1 1 Univ. Lille, CNRS, UCCS – Unité de Catalyse et Chimie du Solide, F-59000 Lille, France. 2 Univ. Artois, CNRS, Centrale Lille, Univ. Lille, UMR 8181 – UCCS – Unité de Catalyse et Chimie du Solide, F62300 Lens, France
16:40 – 17:00	Coffee-Break	
17:00 – 17:20	OR106	Fabian H. Müller – Institute for Technical and Macromolecular Chemistry, RWTH Aachen University, Aachen (Germany) *Integrated direct air capture and activation of CO2 on metal-free covalent triazine frameworks* Fabian H. Müller1, Chalachew Mebrahtu1,2, Regina Palkovits*1,2 1 Institute for Technical and Macromolecular Chemistry, RWTH Aachen University, Worringerweg 2, 52074 – Aachen, Germany. 2 Institute for Sustainable Hydrogen Economy, Forschungszentrum Jülich, Am Brainergy Park 1, 52428 – Jülich, Germany.
17:20 – 17:40	OR107	Maria Romay – Thermochemical Processes Unit, IMDEA Energy Institute, Madrid (Spain) *Dry Reforming of Biogas over La0.9Sr0.1Fe0.95Ni0.05O3 Perovskite for Syngas Production* María Romay 1, David P. Serrano1,2, José.M Escola2, Patricia Pizarro*,2 1 Thermochemical Processes Unit, IMDEA Energy Institute, Avda. Ramón de la Sagra 3, Móstoles, 28935 Madrid, Spain. 2 Chemical and Environmental Engineering Group, Rey Juan Carlos University, c/ Tulipán s/n, Móstoles, 28933 Madrid, Spain.
17:40 – 18:00	OR108	Yasushi Sekine – Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo, Japan. *Effective conversion of CO2 at lower temperatures in an electric field* Yasushi Sekine*,1 1Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo, Japan.
18:00 – 18:20	OR109	Katarzyna Swirk Da Costa – 1Norwegian University of Science and Technology, Department of Chemical Engineering, Trondheim (Norway) *How to improve stability in excess-methane dry reforming over Ni/KIT-6 catalysts? Reduction behavior of thermally stable Ni phyllosilicates (Si/Ni=1:1) monitored by in situ/operando XAS-XRD and IR spectroscopy* Katarzyna Świrk Da Costa1, Paulina Summa2, Marco Fabbiani3, Magnus Rønning1

		1Norwegian University of Science and Technology, Department of Chemical Engineering, 7491 Trondheim,Norway 2Sorbonne Université, CNRS, Institut Jean Le Rond d'Alembert, 78210 Saint Cyr l'Ecole, France 3Université de Caen, ENSICAEN, CNRS, Laboratoire Catalyse et Spectrochimie, 14000 Caen, France
18:20 – 18:40	OR110	Daniele Giusi – ChiBioFarAm – University of Messina, ERIC aisbl and CASPE/INSTM, Messina (Italy) *A scalable artificial leaf device with high solar-to-fuel efficiency to formate* Daniele Giusi*,1, Veronica Costantino1, Viviana Amoroso1, Sefora Isabella Perricone1, Siglinda Perathoner1, Gabriele Centi1, Claudio Ampelli1 1 Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) – University of Messina, ERIC aisbl and CASPE/INSTM, V.le F.Stagno d'Alcontres, 31 – 98166 Messina, Italy.
		Short Orals
18.40 – 18:50	SO137	Marco Pietro Mezzapesa – POLITO, Department of Applied Science and Technology (DISAT), Turin (Italy) *Spectroscopic investigation of In2O3-ZrO2 catalyst for CO2 hydrogenation to methanol* Marco Pietro Mezzapesa*,1, Fabio Salomone1, Enrico Sartoretti1, Raffale Pirone1, Samir Bensaid1 1Politecnico di Torino, Department of Applied Science and Technology (DISAT), Corso Duca degli Abruzzi 24, 10129 Turin, Italy.
18:50 – 19:00	SO138	Nassar Nabil – University of Lille, CNRS, Centrale Lille, ENSCL, University of Artois, UMR 8181-UCCS- Unité de Catalyse et Chimie du Solide, Lille, France *ME-PSD IR spectroscopy to study CO Oxidation reaction under Pt/Al2O3 catalyst* Nassar N.*, Djaafri A., Richard M., Dujardin C., Tougerti A., Cristol S.* University of Lille, CNRS, Centrale Lille, ENSCL, University of Artois, UMR 8181-UCCS- Unité de Catalyse et Chimie du Solide, F-59000 Lille, France
19:00 – 19:10	SO139	Enrico Tronconi – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Milan (Italy) *Low-Temperature redox kinetics for NH3-SCR and N2O formation over Cu-CHA catalysts* Nicola Usberti1, Andrea Gjetja1, Isabella Nova1, Enrico Tronconi*,1 , Roberta Villamaina2, Maria Pia Ruggeri2, Djamela Bounechada2, Andrew P. E. York2, Jillian Collier2 1Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34, 20156 Milan, Italy 2Johnson Matthey Technology Centre, Blounts Court Road, Sonning Common, Reading RG4 9NH, UK
19:10 – 19:20	SO140	Avelina Garcia Garcia – Grupo MCMA, Departamento de Química Inorgánica e Instituto Universitario de Materiales, Universidad de Alicante, San Vicente del Raspeig (Spain) *Unlocking NOx Reduction Pathways in CO-Assisted NO Reduction over Ultra-Low Metal Content Catalysts Supported on Ceria-Zirconia* J.C Martínez-Munuera1, R. Matarrese2, L. Castoldi2, L. Lietti2, A. García-García*,1 1Grupo MCMA, Departamento de Química Inorgánica e Instituto Universitario de Materiales, Universidad de Alicante, Carretera de San Vicente del Raspeig s/n, 03690 San Vicente del Raspeig, Spain. 2Gruppo di Catalisi e Processi Catalitici, Dipartimento di Energia, Politecnico di Milano, Via La Masa 34, 20156 Milano, Italy.
19:20 – 19:30	Closing	

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Room Isola - RI		
09:40 – 10:00	OR111	Matthew Drewery – University of Newcastle, Chemical Engineering, University Drive, Callaghan (Australia)

		Implementation of Catalytic Technologies for Mitigation of Humid, Lean Methane Exhaust Streams; Technological Hurdles for Industrial Implementation Matthew Drewery*1, Matthew Bligh1, Ryan Noon1, Luke Harvey1, Martin Hartmann2, Wilhelm Schwieger2, Eric M Kennedy1, Michael Stockenhuber1 1University of Newcastle, Chemical Engineering, University Drive, Callaghan, Australia. 2Friedrich Alexander Universität, Chemical and Bioengineering, Egerlandstr, Erlangen, Germany.
10:00 – 10:20	OR112	William Epling – University of Virginia, Charlottesville, VA, USA *Impact of NO2 on Sulfur Poisoning of Cu-SSZ-13 Catalysts* Afrina Zaman Shoronika1, Poonam Rani1, Rohil Daya2, and William Epling1* 1University of Virginia, Charlottesville, VA, USA 2Cummins Inc., Columbus, IN, USA
10:20 – 10:40	OR113	Nadia Grifasi – POLITO, Department of Applied Science and Technology, Turin (Italy) *Synergistic effect between manganese and copper oxides in boosting low-temperature catalytic oxidation of indoor pollutants* Nadia Grifasi, Giorgio Demichelis, Samir Bensaid, Nunzio Russo, Debora Fino, Marco Piumetti* Polytechnic of Turin, Department of Applied Science and Technology, Corso Duca Degli Abruzzi, 24, 10129, Turin, Italy
10:40 – 11:00	OR114	Richard Knopp – University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague (Czech Republic) *Kinetics of site transformations in Pd/AEI zeolite for NOx adsorption* Petr Kočí*,1, Tetyana Zheleznyak1, Richard Knopp1, Maria Pia Ruggeri2, Djamela Bounechada2, Andrew P.E. York2 1University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague, Czech Republic. 2Johnson Matthey Technology Centre, Blounts Court Road, Sonning Common, Reading, UK.
11:00 – 11:20	Coffee-Break	
		Short Orals
11:20 – 11.30	SO119	Luana De Pasquale – University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, Messina (Italy) *Magnetic ferrite-based materials for hydrogen generation via water photo-electrolysis* Daniele Valenzisi1, Falak Shafiq1, Luana De Pasquale*,2, Tatiana Rodriguez-Flores1, Roberto Nistico'1, Matteo Cantoni3, Marco Montalbano4, Maria Vittoria Dozzi4, Mery Malandrino5, Maria Cristina Paganini5, Chiara Genovese2 1University of Milano-Bicocca, Dept. of Materials Science, Via R. Cozzi 55, Milano, Italy. 2University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences, Viale F.S. D'Alcontres 31, Messina, Italy. 3Politecnico di Milano, Dept. of Physics, Via G. Colombo 81, Milano, Italy. 4University of Milano, Dept. of Chemistry, Via C. Golgi 19, Milano, Italy. 5University of Torino, Dept. of Chemistry and NIS Centre, Via P. Giuria 7, Torino, Italy.
11:30 – 11:40	SO120	shifted to SO64
11:40 – 11:50	SO121	Kamila Sobańska – Faculty of Chemistry, Jagiellonian University, Kraków (Poland) *Electroprotic reactions of hydrogen peroxide at the interface of aqueous solution and the surface of amorphous oxide ZrO2, Nb2O5, HfO2, Ta2O5 gels – relevance for advanced oxidation processes* Kamila Sobańska,*,1 Łukasz Wolski,2 Piotr Pietrzyk1 1Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, 30-387 Krakow, Poland. 2Adam Mickiewicz University, Faculty of Chemistry, Uniwersytetu Poznańskiego 8, 61-614 Poznań, Poland.
11:50 – 12:00	SO122	Jiaqiang Wang – Yunnan Provincial Center of Technology Innovation for New Materials and Equipment in Water Pollution Control, Yunnan University, Kunming (China) *The challenge of large-scale application of biomimetic photocatalytic water treatment* Jiaqiang Wang*, Yi Zhao, Die Zou, Han Zhang, Chenjie Duan

		Yunnan Provincial Center of Technology Innovation for New Materials and Equipment in Water Pollution Control, School of Materials and Energy, School of Chemical Sciences & Technology, Yunnan Province Engineering Research Center of Photocatalytic Treatment of Industrial Wastewater, Yunnan University, Kunming, 650091, P. R. China
		Orals
12:00 – 12:20	OR115	Francesco Tavella – ChiBioFarAm – University of Messina, ERIC aisbl and CASPE/INSTM, Messina (Italy) *A novel gas-phase approach to control selectivity in ethanol photo-oxidation on metal-doped TiO2/Ti gauze photoanodes* Francesco Tavella*,1, Luana De Pasquale 1, Siglinda Perathoner1, Gabriele Centi1, Chiara Genovese1, Claudio Ampelli1 1 Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) – University of Messina, ERIC aisbl and CASPE/INSTM, V.le F.Stagno d'Alcontres, 31 – 98166 Messina, Italy.
12:20 – 12:40	OR116	Jenny Grazia Vitillo – Department of Science and High Technology and INSTM, Università degli Studi dell'Insubria, Como (Italy) *Two In, One Out: Molecular Architectures for Efficient Photon Upconversion* Soumitra Manna1, Francesca S. Freyria2, Barbara Bonelli2, Jenny G. Vitillo*,1 1 Department of Science and High Technology and INSTM, Università degli Studi dell'Insubria, Via Valleggio 9, I-22100 Como, Italy. 2 Department of Applied Science and Technology and INSTM-Unit of Torino Politecnico, Corso Duca degli Abruzzi 24, Politecnico di Torino,10129 Torino, Italy.
12:40 – 13:00	OR117	Łukasz Cichocki – Gdańsk University of Technology, Department of Sanitary Engineering, Gdańsk (Poland) *Catalytical degradation of haloacetic acids (HAA) in H2/CO2/Xe-UV system – Advanced Reduction Process (ARP) for wastewater treatment* Łukasz Cichocki*, Grzegorz Boczkaj Gdańsk University of Technology, Department of Sanitary Engineering, St. Narutowicza 11/12, 80-233 Gdańsk, Poland.
13:00 – 15.00	Lunch Break	
15.00 – 15:20	OR125	Muhammad Sabir – University of Messina, ChiBioFarAm, Messina (Italy) Novel APPJ-thermal hybrid system for methane decomposition Francesco Pio Abramo*1, Muhammed Sabir1, Palmarita Demoro1, Siglinda Perathoner, Gabriele Centi1, Ruben Bartali2, Alireza Ganjovi2, Salvatore Abate1 1University of Messina, Department of ChiBioFarAm (Industrial Chemistry), V.le F. Stagno d'Alcontres, Messina, Italy. 2 Fondazione Bruno Kessler, Via Sommarive 18, Trento, Italy.
		Short Orals
15:20 – 15:30	SO126	Kazuki Shun – Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, Osaka (Japan) *Hydrogen spillover on a non-reducible metal oxide comprising earth-abundant elements and its catalysis* Kazuki Shun1, Kohsuke Mori*,1, Takumi Kidawara1, Hiromi Yamashita1 1 Division of Materials and Manufacturing Science, Graduate School of Engineering, Osaka University, 2-1 Yamadaoka Suita Osaka 565-0871, Japan
15:30 – 15:40	SO127	Hirohisa Tanaka – Kwansei Gakuin University, 1 Gakuen-Uegahara, Sanda, Hyogo 669-1330, Japan *STACY: International collaboration towards liquefied hydrogen safety* Hirohisa Tanaka*, 1, Ernst Arndt Reinecke2, Nabiha Chaumeix3, Ahmed Bentaib4, Daiju Matsumura5, Masashi Taniguchi6, Shannon Krenz2, Tomohito Nakayama1, Shinya Uegaki1, Itsuki Jinjo1, Seita Kurono1 1 Kwansei Gakuin University, 1 Gakuen-Uegahara, Sanda, Hyogo 669-1330, Japan 2 Forschungszentrum Jülich GmbH (FZJ), 52425 Jülich, Germany 3 Centre National de la Recherche Scientifique (CNRS), Orléans, France. 4 Institut de Radioprotection et de Sûreté Nucléaire (IRSN), Fontenay-aux-Roses, France. 5 Japan Atomic Energy Agency, SPring-8, 1-1-1 Koto, Sayo, Hyogo 679-5148, Japan

		6 Daihatsu Motor Co., Ltd., 21-1 Momozono, Ikeda, Osaka 563-8651 Japan
15:40 – 15:50	SO128	Piercosimo Vedele – POLITO, Turin (Italy) *Deactivation and kinetic models of catalytic methane pyrolysis over Fe/Al2O3 catalysts for a fluidized bed reactor integrated system* Piercosimo Vedele1*, Enrico Sartoretti1, Fabio Salomone1, Massimiliano Antonini2, Samir Bensaid1 1Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Turin, Italy. 2 Hysytech srl, Via I Maggio 5, 10043, Orbassano, Italy.
15:50 – 16:00	SO129	Ramazan Yildirim – Boğaziçi University, Department of Chemical Engineering, Istanbul (Türkiye) *Machine learning analysis of halide perovskite for photocatalytic CO2 reduction and water splitting* Beyza Yilmaz, Ramazan Yildirim* Boğaziçi University, Department of Chemical Engineering, 34342, Istanbul, Türkiye.
16:00 – 16:10	SO130	Dorottya Szalay – Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford, (UK) *Magnetic field-enhanced electrochemical oxygen evolution reaction using Co3O4/BaFe12O19 co-catalyst system* Dorottya Szalay1, Amy Radford1, Chen Wu2, Shik Chi Edman Tsang1* 1 Wolfson Catalysis Centre, Department of Chemistry, University of Oxford, Oxford, OX1 3QR, United Kingdom 2 School of Materials Science and Engineering, State Key Laboratory of Silicon and Advanced Semiconductor Materials, Zhejiang University, Hangzhou 310027, China
16:10 – 16:20	SO131	Hajime Suzuki – Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Kyoto (Japan) *Spontaneous Adsorption of Iridium Chloride Complex on oxychloride photocatalysts Provides Efficient and Durable Reaction Site for Photocatalytic Water Oxidation* Hajime Suzuki,1 Kengo Minamimoto,1 Yusuke Ishii,1 Osamu Tomita,1 Akinobu Nakada,1 Shunsuke Nozawa,2 Ryu Abe*,1 1Department of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Nishikyo-ku, Kyoto 615-8510, Japan 2Photon Factory (PF), Institute of Materials Structure Science (IMSS), High Energy Accelerator Research Organization (KEK), Tsukuba, Ibaraki 305-0801, Japan
16:20 – 16:30	SO132	Saman Noroozi – Dept. of Applied Science and Technology, POLITO, Turin (Italy) *Evaluation of Cu- and CuZn-Exsolved Catalysts for the CO2 Hydrogenation to MeOH* Eleonora Calì1*, Saman Noroozi1, William Skinner2, David J. Payne2,3, Fabio Salomone1, Samir Bensaid1 1Dept. of Applied Science and Technology, Politecnico di Torino, C.so Duca degli Abruzzi 24, 10129 Turin, Italy. 2 Department of Materials, Imperial College London, Exhibition Road, London SW7 2AZ, U.K. 3 NEOM Education, Research, and Innovation Foundation, Al Khuraybah, Tabuk 49643-9136, Saudi Arabia
16:30 – 17:00	Coffee-Break	
17:00 – 17:20	OR118	Masaru Ogura – Institute of Industrial Science, The University of Tokyo, Komaba, Tokyo (Japan) *Transient and catalytic NO direct decomposition by irradiating microwave* Maya Chatterjee, Misaki Kimura, Masateru Nishioka, Masaru Ogura* Institute of Industrial Science, The University of Tokyo, Komaba, Tokyo, Japan.
17:20 – 17:40	OR119	Kalle Weidauer – 1TU Bergakademie Freiberg, Institute of Energy Process Engineering and Chemical Engineering, Freiberg (Germany) *Removal of formaldehyde, carbon monoxide and methane from lean gas engine exhaust gases using precious metal-free catalysts* Kalle Weidauer1, Sven Kureti1 1TU Bergakademie Freiberg, Institute of Energy Process Engineering and Chemical Engineering, Fuchsmühlenweg 9D, 09599 Freiberg, Germany.

17:40 – 18:00	OR120	Margarita Popova – Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, Sofia (Bulgaria) *CO2 capture on the amino-modified mesoporous silica* Margarita Popova*,1, Svilen Simeonov1, Ivailo Slavchev1, Yavor Mitrev1, Pavletta Shestakova1, Stela Grozdanopva1, Ivalina Trendaflova1 1 Institute of Organic Chemistry with Centre of Phytochemistry, Bulgarian Academy of Sciences, acad. G. Bonchev str., bl. 9, Sofia, Bulgaria.
18:00 – 18:20	OR121	Edyta Tabor – J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Prague (Czech Republic) *Nature of Cu active centres in ferrierite based catalysts responsible for direct CO2 transformation to platform chemicals* Julia Sobalska1,2, Kinga Mlekodaj3, Karolina Tarach1, Olena Tynkevych1, Dalibor Kaucký3, Jiri Dedecek3, Mark Newton3, Kinga Gòra-Marek1, and Edyta Tabor3* 1Faculty of Chemistry, Jagiellonian University in Kraków, Gronostajowa 2, 30-387 Kraków, Poland. 2 Doctoral School of Exact and Natural Sciences, Jagiellonian University in Krakow, Łojasiewicza 11, 30-348 Krakow, Poland. 3 J. Heyrovský Institute of Physical Chemistry, Czech Academy of Sciences, Dolejškova 2155/3, 182 23 Prague 8, Czech Republic.
18:20 – 18:40	OR122	Leonarda Francesca Liotta – CNR, ISMN, Palermo (Italy) *Ag/Ce1-xMnxO2 Catalysts for Soot Oxidation: Role of Ce/Mn Molar Ratio* Ekaterina S. L'vova,1 Tamara S. Kharlamova,1 Maria V. Grabchenko,1 Olga V. Vodyankina,*1 Eleonora La Greca,2 and Leonarda F. Liotta*2 1 Tomsk State University, 36 Lenin Ave., Tomsk, 634050, Russian Federation 2 CNR, ISMN, Via Ugo La Malfa 153, 90146-Palermo, Italy
		Short Orals
18:40 – 18:50	SO141	Stefania Volante – University of Pisa, Department of Chemistry and Industrial Chemistry, Pisa (Italy) *Sustainable energy storage materials from waste hazelnut shell biomass* Stefania Volante*1, Domenico Licursi1, Federico Maria Vivaldi1, Pietro Zaccagnini2, Federico Bella2, Fabio Di Francesco1, Claudia Antonetti1 1University of Pisa, Dept Chem and Industrial Chemistry, Via G. Moruzzi 13, Pisa, Italy 2 Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129, Torino, Italy
18:50 – 19:00	SO142	Jennifer Cueto – Thermochemical Processes Unit, IMDEA Energy, Madrid (Spain) *Improving oil quality from waste plastics pyrolysis: aromatization and dehalogenation activity using MFI zeolites* Jennifer Cueto*,1, Alberto Pinto1,2, Lidia Amodio1,2, Pavla Eliášová3, Patricia Pizarro1,2, Kenta Iyoki4, Tatsuya Okubo4, Tareq W.M. Amen5, Nao Tsunoji5, Jiří Čejka3, David P. Serrano1,2 1Thermochemical Processes Unit, IMDEA Energy, Avda. Ramón de la Sagra 3, 28935, Móstoles, Madrid, Spain 2Chemical and Environmental Engineering Group, Rey Juan Carlos University, Móstoles, Madrid, Spain 3Dep. of Physical and Macromolecular Chemistry, Faculty of Science, Charles University, Prague, Czech Republic 4Department of Chemical System Engineering, The University of Tokyo, 7-3-1 Hongo, Tokyo, 113-8656, Japan 5Department of Applied Chemistry, Graduate School of Advanced Science and Engineering, Hiroshima University, 1-4-1 Kagamiyama, Hiroshima, 739-8527, Japan
19:00 – 19:10	SO143	Withdrawn
19:10 – 19:20	SO144	Alessandra Beretta – Dipartimento di Energia, POLIMI, Milano (Italy) Kinetic Investigation of Ammonia Decomposition over Ru/CeO2 Catalysts Synthesized by Conventional IWI and Novel Mechanochemical Approaches Yi Qiu1, Ivan Conti1, Nicole Bendazzoli1, Rudy Calligaro2, Alessandro Trovarelli2, Elisabetta Iengo3, Enzo Alessio3 and Alessandra Beretta*1 1Dip Energia, Politecnico di Milano, Via Lambruschini 4, 20156, Milano, Italy

		2 Dipartimento Politecnico di Ingegneria e Architettura, Università degli Studi di Udine, via del Cotonificio 108, 33100, Udine, Italy 3 Dipartimento di Scienze Chimiche e Farmaceutiche, Università degli Studi di Trieste, Via L. Giorgieri 1, 34127, Trieste, Italy
19:20 – 19:30	Closing	

20:15 – 23:00	Banquet