02/06/2025		
Room PR - Plenary		
08:50 - 09:10		Opening (Gabriele Centi, Siglinda Perathoner, Enrico Tronconi)
09:10 – 09:50	KP1	Pierdomenico Biasi CASALE S.A., Lugano, (Switzerland) *Environmental Catalysis in Industry: The Road Ahead* Pierdomenico BIASI, Raffaele OSTUNI, Alberto GARBUJO, Filippo BUTTIGNOL, Ludovica VILLANTIERI, Michal BIALKOWSKI CASALE SA, R&D Division, Via Giulio Pocobelli 6, 6900, Lugano, Switzerland.
10:00 – 10:20	OR1	Pascal Granger - University of Lille, UCCS CNRS, Lille (France) *Natural Gas Vehicle post-combustion catalysts: How to manage support effect to magnify the performances of noble metals in methane abatement* Amaury Decoster, Fabien Dhainaut, Pascal Granger Univ. Lille, CNRS, Centrale Lille, Univ. Artois, UMR 8181 - UCCS - Unité de Catalyse et Chimie du Solide, F-59000 Lille, France
10:20 – 11:00	KN1	Guido Busca (Università di Genova), Genova (Italy) *Zeolite catalysis for (bio)ethanol-to-hydrocarbons processes* Guido Busca, Elena Spennati, Paola Riani, Gabriella Garbarino - University of Genova, DICCA, via Opera Pia 15, Genova, Italy. - University of Genova, DCCI, via Dodecaneso 31, Genova, Italy.
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR2	Henrik Gronbeck - Chalmers University of Technology, Gothenburg (Sweden) *NH3-SCR over Cu-CHA from first principles* Henrik Grönbeck Competence Centre for Catalysis and Department of Physics, Chalmers University of Technology, Göteborg, Sweden
11:40 – 12:00	OR3	Piotr Pietrzyk Jagiellonian University, Krakow (Poland) *Oxidative half-cycle of SCR NOx on single and dual copper sites of CuSSZ-13 catalyst via NO2, nitrates and nitrites formation – spectroscopic and thermodynamic DFT background for reaction networks* Bartosz Mozgawa, Filip Zasada, Monika Fedyna, Kinga Góra-Marek, Zbigniew Sojka, Piotr Pietrzyk Jagiellonian University, Faculty of Chemistry, Gronostajowa 2, Krakow, Poland.
12:00 – 12:20	OR4	Elisabetta Finocchio - (Università di Genova), Genova (Italy) *Ternary Me–P–Si oxides for catalytic conversion of biomass-derived chemicals: a closer look at the surface.* Elisabetta Finocchio*, Antonella Gervasini, Sebastiano Campisi, Aurelio Bifulco, Claudio Imparato, Antonio Aronne. 1 Università di Genova, Dip. Ingegneria Civile, Chimica e Ambientale, Via Opera Pia 15, Genova, Italy. 2 Università di Milano, Dip. Chimica, Via Camillo Golgi 19, Milano, Italy. 3 Università di Napoli Federico II, Dip. Ingegneria Chimica, dei Materiali e della Produzione Industriale, P.le Tecchio 80, Napoli, Italy.
		Short Orals
12:20 – 12:30	SO1	Gabriella Garbarino – University of Genova, DICCA Dept., Genova (Italy) *Transition metals over C-based materials: unraveling performances and challenges* Sina E. Atakoohi1, Elena Spennati1,2, Paola Riani2,3, Gabriella Garbarino1,2,* 1University of Genova, DICCA Dept., Genova, 16145 (Italy) 2INSTM, UDR Genova, 16146 (Italy) 3University of Genova, DCCI Dept., Genova, 16146 (Italy)
12:30 – 12:40	SO2	Michele Leone – Università La Sapienza, Roma (Italy) *Operando-FTIR investigation of bifunctional Pt or Pd,Fe-HMOR catalyst for simultaneous abatement of NOx and N2O by CH4* Michele Leone*,1, Chiara Caponera1, Daniela Pietrogiacomi1, Simone Morpurgo1, Maria Cristina Campa2 1Chemistry Department, Sapienza University of Rome, 00185 Rome, Italy.

		2 ISMN-CNR, c/o Chemistry Department, Sapienza University of Rome, 00185 Rome, Italy.
12:40 – 12:50	SO3	Florian Maurer - Karlsruhe Institute of Technology, Karlsruhe (Germany) *Descriptors for noble metal redispersion on CeO_2-based catalysts* Florian Maurer1*, Agustin Salcedo2, Maria Casapu1, David Loffreda2, Arik Beck1, Paolo Dolcet3, Mimoun Aouine4, Thierry Epicier4, Stéphane Loridant4, Philippe Vernoux4, Carine Michel2, Jan-Dierk Grunwaldt1 1 Institute of Chemical Technology and Polymer Chemistry, KIT, Karlsruhe, Germany 2 ENSL, CNRS, Laboratoire de Chimie, Lyon, France 3 Department of Chemical Sciences, University of Padova, Padova 35131, Italy
12:50 – 13:00	SO4	Valérie Meille - *University of Lyon*, IRCELYON, CNRS, Villeurbanne (France) *In-situ DRIFTS studies provide insight into competitive adsorption of VOCs and ozone on catalyst surfaces at low temperature* Amira Jabbari-Hichri1, Salma Majdoub1, Eddy J. Moreno1, Xiaolong Ji1, Valérie Meille1*, Sonia Gil1* *1IRCELYON, University of Lyon, CNRS, Lyon, 69626 Villeurbanne Cedex, France*
13:00 – 15:00	Lunch Break	
15:00 – 15:20	OR5	Filippo Buttignol - Casale SA, Dipartimento di Ricerca di Base, Lugano (Switzerland) *Iron-catalyzed cooperative red-ox mechanism for the simultaneous conversion of nitrous oxide and nitric oxide* Filippo Buttignol1,2, Jörg W. A. Fischer3, Alberto Garbujo4,*, Pierdomenico Biasi4, Gunnar Jeschke5, Oliver Kröcher1,2 and Davide Ferri1 1Paul Scherrer Institut (PSI), Center for Energy and Environmental Sciences, 5232 Villigen, Switzerland. 2École Polytechnique Fédérale de Lausanne (EPFL), 1015 Lausanne, Switzerland. 3ETH Zurich, Laboratory of Physical Chemistry, 8093 Zurich, Switzerland
15:20 – 15:40	OR6	Sang Woo Byun - Gwangju Institute of Science and Technology, Gwangju South Korea *Upcycling degraded Li(Ni-Co-Mn)O2 cathodes to highly active thermal catalyst via the lithium pre-extraction method for air pollutant abatement* Sang Woo Byun1, Hyeonwoo Shin1, Wonseok Choi1, Jinju Song2, Dokyeong Han2, Jiyoung Ma2, Jayoung Kim2, Seok Hyun Song2, Jung-Je Woo2 and Sung Bong Kang*, 1 1 Gwangju Institute of Science and Technology, 123 Cheomdan-Gwagiro, Gwangju 61005, South Korea 2 Gwangju Clean Energy Research Center, Korea Institute of Energy Research (KIER), Gwangju 61003, South Korea
15:40 – 16:00	OR7	Fabien Can - IC2MP, Université de Poitiers-CNRS, Poitiers (France) *H_2-SCR over 0.3%Pt/5%SiO_2-Al_2O_3 catalyst: investigations in the reaction pathways* Amira Ben Attia1, Fabien Can1, Xavier Courtois1* 1 IC2MP, Université de Poitiers-CNRS, 4 rue Michel Brunet TSA 51106 86073 Poitiers Cedex 9, France.
16:00 – 16:20	OR8	Daniel C. Cano-Blanco - Paul Scherrer Institute, Villigen (Switzerland) *Site-specific monomeric Fe sites catalyze the N2O decomposition reaction* Daniel C. Cano-Blanco1, Jörg W. A. Fischer3, Filippo Buttignol1, Gunnar Jeschke3, Oliver Kröcher1,2, Davide Ferri1 1 Paul Scherrer Institute, 5232 Villigen, Switzerland; 2 Institute for Chemical Science and Chemical Engineering, École polytechnique fédérale de Lausanne (EPFL), Lausanne, Switzerland; 3 Department of Chemistry and Applied Biosciences, ETH Zurich, 8093 Zurich, Switzerland
16:20 – 16:40	OR9	Maria Casapu - Institute for Chemical Technology and Polymer Chemistry (ITCP), Karlsruhe Institute of Technology, Karlsruhe (Germany) *Structural parameters for high activity and stability of Pd/CeO2 CH4 oxidation catalysts* D. Zengel1, V. Marchuk1, M. Kurt1, F. Maurer1, A. Salcedo2, C. Michel2, D. Loffreda2, M. Aouine3, T. Epicier3, S. Loridant3, P. Vernoux3, M. Casapu1*, J.-D. Grunwaldt1 1Institute for Chemical Technology and Polymer Chemistry (ITCP), Karlsruhe Institute of Technology, 76131 Karlsruhe, Germany

		2ENS de Lyon, CNRS UMR 5182, Laboratoire de Chimie, Lyon, France 3Institut de Recherches sur la Catalyse et l'Environnement de Lyon, CNRS UMR5256, Université de Lyon, Lyon, France
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO5	Roberta Castiglione – Laboratory of Catalysis and Catalytic Processes. Politecnico di Milano – Milano (Italy) *Anisotropic POCS: Unlocking Mass Transfer Potential* Roberta Castiglione1, Claudio Ferroni1, Federico Sascha Franchi1, Matteo Ambrosetti1, Mauro Bracconi1, Gianpiero Groppi1, Matteo Maestri1, Enrico Tronconi*,1 1Laboratory of Catalysis and Catalytic Processes, Politecnico di Milano, 20156 Milan, Italy
17:10 – 17:20	SO6	Matteo Maestri – Politecnico di Milano, Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Milano (Italy) *H_2O-assisted Oxidation Half-Cycle of Low Temperature NH3-SCR over Cu-CHA* Gabriele Contaldo1, Isabella Nova1, Matteo Maestri1,* and Enrico Tronconi1,* 1Politecnico di Milano, Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Via la Masa 34, Milano 20156, Italy.
17:20 – 17:30	SO7	Andrea De Giacinto - Karlsruher Institut für Technologie (KIT), Karlsruhe (Germany) *Influence of CeO_2 morphology and initial Pd-Pt interaction degree on catalyst activity and stability* Andrea DE GIACINTO1,2, Paolo DOLCET1,2, Di WANG3,4, Joachim CZECHOWSKY1, Carina MALIAKKAL3, Christian KÜBEL3,4, Silke BEHRENS5, Jan-Dierk GRUNWALDT1,5, Silvia GROSS1,2,*, Maria CASAPU1,* 1 Karlsruhe Institute of Technology, Institute for Chemical Technology and Polymer Chemistry, Engesserstraße 18-20, 76131 Karlsruhe, Germany 2 Università di Padova, Dip Scienze Chimiche, Via Marzolo 1, 35131 Padova, Italy 3 Karlsruhe Institute of Technology, Institute of Nanotechnology, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany 4 Karlsruhe Institute of Technology, Karlsruhe Nano Micro Facility, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany 5 Karlsruhe Institute of Technology, Institute of Catalysis Research and Technology, Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany
17:30 – 17:40	SO8	Jean-Marc Giraudon - Univ. Lille, CNRS, Centrale Lille, Univ. Artois, Unité de Catalyse et Chimie du Solide, Lille (France) *Functionalization of hydroxyapatite with silver for application in total oxidation of formaldehyde* E. Prandini1,2, G. Abdallah1, S. Campisi2, A. Gervasini2, A. Addad3, O. Gardoll1, M. Trentesaux1, J.-M. Giraudon1*, J.-F. Lamonier1 1 Univ. Lille, CNRS, Centrale Lille, Univ. Artois, Unité de Catalyse et Chimie du Solide-Lille, 59000, France. 2 Dipartimento di Chimica, Università degli Studi di Milano, Via C. Golgi 19, Milano, 20133, Italy. 3 Univ. Lille, CNRS, INRAE, Centrale Lille, Unité de Matériaux et Transformations-Lille, 59000, France
17:40 – 17:50	SO9	Vincenzo Russo, University of Naples Federico II, Naple (Italy) *LOHC: kinetics of toluene hydrogenation over Pt/Al_2O_3 catalyst in a trickle bed reactor* Vincenzo RUSSO*,1, Muhammad Usama DAUD1, Alessandro ESPOSITO1, Federica COSENZA1, Riccardo TESSER1, Martino DI SERIO1 Università di Napoli 'Federico II', Department of Chemical Sciences, Napoli, Italy.
17:50 – 18:00	SO10	Withdrawn
18:00 – 19:00	CH P1	Poster session (Hallway) P1

02/06/2025		
Room Massimo (RM)		
10:00 – 10:20	OR10	Federico Bella – Department of Applied Science and Technology, Politecnico di Torino, Torino (Italy) *Lithium-mediated pathways towards ammonia electroproduction* Anna Mangini1, Sara Garcia-Ballesteros1, Federico Bella*,1 1Department of Applied Science and Technology, Politecnico di Torino, Corso Duca degli Abruzzi 24, 10129 – Torino, Italy.
10:20 – 10:40	OR11	Enrico Tronconi – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Milan (Italy) *Deconvolving the Standard-SCR Redox Mechanism on Copper-Zeolites for Catalyst Insight and Development* Andrea Gjetja1, Nicola Usberti1, Nicole Daniela Nasello1, Umberto Iacobone1, 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
10:40 - 11:00	OR12	Sebastián Gámez – Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Louvain-la-Neuve (Belgium) *Mesoporous Ni/La_2O_3 catalyst for highly efficient NH3 decomposition* Sebastián GAMEZ1*, Josefine SCHNEE2 and Eric M. GAIGNEAUX1 1 Institute of Condensed Matter and Nanosciences, Université catholique de Louvain, Pl. Louis Pasteur 1, 1348 Louvain-la-Neuve, Belgium. 2 Sorbonne Université, Laboratoire de Réactivité de Surface (LRS), CNRS, Campus Pierre et Marie Curie, 4 Place Jussieu, F-75005 Paris Cedex 05, France
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR13	Roberto Luigi Oliveri – Dipartimento di Ingegneria, Università di Palermo, Palermo (Italy) *Alkaline electrolyzer with nanostructured NiFeP electrodes for hydrogen production* Roberto Luigi Oliveri*,1, Salvatore Geraci1 , Bernardo Patella1 , Giuseppe Aiello1, Sonia Longo1, Alberto Affranchi1, Maurizio Cellura1, Rosalinda Inguanta1 1Dipartimento di Ingegneria, Università degli Studi di Palermo, 90128 Palermo, Italy 2 Centro di Sostenibilità e Transizione Ecologica
11:40 – 12:00	OR14	Cristina Italiano – CNR-ITAE “Nicola Giordano”, Messina (Italy) *Low-temperature CO2 methanation over Ni-based catalysts: On the nature of active sites by operando DRIFTS study* Cristina Italiano*, Gabriel Marino, Minju Thomas, Hafedh Brahim, Miriana Caporlingua, Antonio Vita CNR-ITAE “Nicola Giordano”, Via S. Lucia sopra Contesse 5, 98126 Messina, Italy
12:00 – 12:20	OR15	Eleonora La Greca – ISMN-CNR, Palermo (Italy) *Photoreforming of Glycerol for H2 Production Using Au-Ni Catalysts Supported on CeO_2* Eleonora La Greca1,2*, Roberto Fiorenza2, Maria Teresa Armeli Iapichino2 Salvatore Scirè2 and Leonarda Francesca Liotta1 1Institute for the Study of Nanostructured Materials (ISMN), National Research Council (CNR), Via Ugo La Malfa 153, 90146 Palermo, Italy 2Department of Chemical Science, University of Catania, Viale A. Doria 6, Catania, Italy
		Short Orals
12:20 – 12:30	SO11	Sabrina Akrour – Sorbonne Université, CNRS, Laboratoire Réactivité de Surface, LRS, Paris (France) *Green NH3 Synthesis via Hydroxyapatite-Supported Ru Catalysts for Sustainable H2 Storage under mild conditions* Sabrina Akrour1, Alexandre Vimont2, Sandra Casale1, Guylène Costentin1 and Cyril Thomas*1

		1Sorbonne Université, CNRS, Laboratoire Réactivité de Surface, LRS, Paris, 75005, France 2Normandie Université, Laboratoire Catalyse et Spectrochimie, 14000 Caen, France
12:30 – 12:40	SO12	Maria Teresa Armeli Iapichino – University of Catania, Department of Chemical Sciences, Catania (Italy) *Solar Photoreforming of biomass and plastic-derived materials using carbon-based photocatalysts* Maria Teresa Armeli Iapichino1*, Roberto Fiorenza1, Salvatore Scirè1 1University of Catania, Department of Chemical Sciences, V.le Andrea Doria 6, Catania, Italy
12:40 – 12:50	SO13	Ilaria Barlocco – Dipartimento di Chimica, Università degli Studi di Milano, Milano (Italy) *Probing the Metal/Oxide Interface of IrCoCeOx in N2H4·H2O Decomposition: An Experimental and Computational Study* Ilaria Barlocco1, Silvio Bellomi1, Marta Stucchi1, Laura prati1, Davide Ferri2 and Alberto Villa1 1 Dipartimento di Chimica, Università degli Studi di Milano, Via Golgi 19, I-20133 Milano, Italy. 2 PSI Center for Energy and Environmental Sciences, Paul Scherrer Institut, CH-5232 Villigen PSI, Switzerland
12:50 – 13:00	SO14	Lidia Castoldi, Politecnico di Milano, Milano (Italy) Iron catalyst for CH4 pyrolysis: characterizing C formation to understand catalyst deactivation Lidia CASTOLDI1, Veronica PIAZZA1, Chiara NEGRI1, Marco ORSENIGO1, Davide CAFARO1, Matteo MAESTRI1, Gianpiero GROPPI1, Alessandra BERETTA*,1 1Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34 – 20156 Milano, Italy.
13:00 – 15:00	Lunch Break	
15:00 – 15:40	KN2	Hyeonjeong Kim – Pohang University of Science and Technology (POSTECH), Division of Environmental Science and Engineering., Pohang (Republic of Korea) *Revisiting Electrochemical Breakpoint Chlorination of Ammonium-Rich Wastewater: Reactive Chlorine Speciation on IrTaOx/TiO_2* Hyeonjeong Kim1 and Kangwoo Cho*,1 1Pohang University of Science and Technology (POSTECH), Division of Environmental Science and Engineering., 77 Cheongam-ro, Pohang, Republic of Korea.
15:40 – 16:00	OR16	Janek Betting – University of Twente, Faculty of Science and Technology, Enschede (The Netherlands) *Detection of Hydroxylamine Intermediate Opens a New Perspective on Ammonia Selectivity in Metal-Catalyzed Nitrate Reduction* Janek Betting*,1, Leon Lefferts1, Jimmy Faria Albanese1 1University of Twente, Faculty of Science and Technology, Drienerlolaan 5, 7522NB Enschede, The Netherlands.
16:00 – 16:20	OR17	Antonio Eduardo Palomares - Instituto de Tecnología Química (Universidad Politécnica de Valencia - Consejo Superior Investigaciones Científicas), Valencia (Spain) *Catalytic hydrogenation of chlorated oxyanions in water with Pt-catalysts* Antonio Eduardo Palomares1, Adrián Pla-Hernández1, Nadia Benmebirouk-Pareja1 1Instituto de Tecnología Química (Universidad Politécnica de Valencia - Consejo Superior Investigaciones Científicas), 46022 Valencia, Spain
16:20 – 16:40	OR18	Pasi Tolvanen – Åbo Akademi, Johan Gadolin Process Chemistry Centre (PCC), Turku/Åbo (Finland) *Catalytic ozonation of pharmaceutical mixtures: A comprehensive analysis of catalyst efficacy, degradation pathways and recyclability* Pasi Tolvanen*1, Soudabeh Saeid1, Matilda Kråkström1, Shey Jude Fale1,3, Nikke Saarinen1, Jonna Engström-Öst3, Narendra Kumar, Patrik Eklund1, Jyri-Pekka Mikkola1, Tapio Salmi1,2 1Åbo Akademi, Johan Gadolin Process Chemistry Centre (PCC), FI-20500 Turku/Åbo, Finland

		2Università di Napoli 'Federico II', Chemical Sciences, IT-80125 Napoli, Italy 3 Novia University of Applied Sciences, FI-10650, Finland
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO15	withdrawn
17:10 – 17:20	SO16	Anna Dotti – Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Milano (Italy) *Facile coating of reduced graphene oxide and TiO2 on floating polyurethane foams for photocatalytic water decontamination* Anna Dotti1*, Andrea Basso Peressut1, Roberto Matarrese2, Saverio Latorrata1 1Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica "Giulio Natta", Piazza Leonardo da Vinci 32, 20133, Milano, Italy. 2Politecnico di Milano, Dipartimento di Energia, Via Lambruschini 4, 20156, Milano, Italy
17:20 – 17:30	SO17	Jiří Henych - Institute of Inorganic Chemistry of the Czech Academy of Sciences, Husinec-Řež (Czechia) *Nanoceria as acid-base catalyst for hydrolysis of sulfonamides, sulfonylureas and other emerging pollutants* Jan Čundrle1, Martin Šťastný1, Jakub Ederer2, Pavel Janoš2, Jiří Henych*,1 1Institute of Inorganic Chemistry of the Czech Academy of Sciences, 250 68 Husinec-Řež, Czechia. 2 Jan Evangelista Purkyně University in Ústí nad Labem, Faculty of Environment, Pasteurova 3632/15, 400 96 Ústí nad Labem, Czechia.
17:30 – 17:40	SO18	Elena Mariani – Department of Chemistry, UNIFI, Sesto Fiorentino (Italy) *Efficient palladium recovery and catalyst development from electroplating wastewater using functionalized carbon materials* Elena Mariani1,2,3,*, Marco Bonechi1,2, Ilaria Maggini1, Claudia Giovani1, Leonardo Lari4,5, Matteo Savastano2,6, Claudio Fontanesi2,7, Antonio Bianchi1, Massimo Innocenti1,2 1 Department of Chemistry, UNIFI, via della Lastruccia 3, 50019 Sesto Fiorentino, Italy. 2 INSTM, via Giuseppe Giusti, 9, 50121 Florence, Italy. 3 Eco-Tech Finish s.r.l., Z.I. San Zeno, Strada C 27, 52100 Arezzo, Italy. 4 School of Physics, Engineering and Technology, University of York, Heslington, York YO10 5DD, UK. 5 The York-JEOL Nanocentre, University of York, Heslington, York YO10 5BR, UK. 6 Department of Human Sciences, University San Raffaele, Via di Val Cannuta 247, 00166 Rome, Italy. 7 Department of Engineering, University of Modena and Reggio Emilia, via Vivarelli 10, 41125 Modena, Italy
17:40 – 17:50	SO19	Channa Najeebullah – Department of Applied Science and Technology, Politecnico di Torino, Torino (Italy) *Bacterial Disinfection from Selected Water Pathogens Using an Iron-doped TiO2 Photocatalyst Under Visible Light* Najeebullah Channa*1, Francesca Stefania Freyria1, Tanveer A. Gadhi2, Alessandro Chiadò1, Nicola Blangetti,1 Barbara Bonelli1 1 Department of Applied Science and Technology, Corso Duca degli Abruzzi 24, Politecnico di Torino,10129 Torino, Italy. 2 US-Pakistan Center for Advanced Studies in Water (USPCASW), Mehran University of Engineering and Technology, Jamshoro, 76062, Pakistan.
17:80 – 18:00	SO20	Eleonora Russo – University of Padua, Department of Industrial Engineering, Padova (Italy) *Study on the photodegradation of pharmaceuticals using graphitic carbon nitride derivatives* Eleonora Russo*,1, Eryk Fernandes2, João Gomes2, Paolo Sgarbossa1, Rui C. MARTINS2

		1 University of Padua, Department of Industrial Engineering, via F. Marzolo 9, 35131, Padova, Italy 2 University of Coimbra, Department of Chemical Engineering, rua S. Lima, 3030-790, Coimbra, Portugal
18:00 – 19:00	CH P1	Poster session (Hallway) P1

02/06/2025		
Room Isola - RI		
10:00 – 10:20	OR19	Alixandre Magerat – Université catholique de Louvain (UCLouvain), IMCN, Louvain-la-Neuve (Belgium) *Keggin heteropolyanions: novel versatile deoxydehydration catalysts* Alixandre Magerat*, Sophie Hermans, Eric M. Gaigneaux Université catholique de Louvain (UCLouvain), Institute of Condensed Matter and Nanosciences (IMCN), Place Louis Pasteur, 1 – 1438 Louvain-la-Neuve, Belgium
10:20 – 10:40	OR20	Victor Longo – 1University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences and CASPE INSTM, Messina (Italy) *A new double dielectric barrier discharge (DDBD) reactor to prevent carbon deposition in plasma-assisted non-oxidative methane coupling* Victor Longo1*, Luana De Pasquale1, Siglinda Perathoner1, Gabriele Centi1, Chiara Genovese1 1University of Messina, Dept. of Chemical, Biological, Pharmaceutical and Environmental Sciences and CASPE INSTM, Viale F.S. D'Alcontres 31, Messina, Italy.
10:40 – 11:00	OR21	Maela Manzoli – University of Turin, Dept. of Drug Science and Technology and NIS, Turin (Italy) *Catalytic synthesis of adipic acid using biomass-derived raw materials* Maela Manzoli*1, Fabio Bucciol1, Sara Morandi2, Giancarlo Cravotto1, Svetlana Ivanova3 And Silvia Tabasso1 1University of Turin, Dept. of Drug Science and Technology and NIS Centre, Via P. Giuria 9, 10125, Turin, Italy. 2University of Turin, Dept. of Chemistry and NIS Centre, Via P. Giuria 7, 10125, Turin, Italy. 3University of Seville, Dept. of Inorganic Chemistry, Avda. Americo Vespucio 49, 41092, Seville, Spain
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR22	Thomas Maschmeyer - The University of Sydney, Sydney (Australia) *Supercritical Water – Actions and Reactions During the Thermal Decomposition of Plastics* Jack Steel1, Taku Michael Aida2, Anthony F. Masters1, Alexander K.L. Yuen1, Thomas Maschmeyer*,1 1The University of Sydney, Laboratory of Advanced Catalysis for Sustainability, School of Chemistry, Sydney NSW 2006, Australia. 2 Fukuoka University, Department of Chemical Engineering, Faculty of Engineering, Nanakuma Jonan-ku, Fukuoka 814-0180, Japan
11:40 – 12:20	KN3	Angeliki Lemonidou – Aristotle University of Thessaloniki, Thessaloniki (Greece) *Upgrading of plastic pyrolysis oil model compounds over ZSM5-based catalysts: Effect of reactor type and operating variables* S-A. Andrianos1, P. Soldatos2, K. Triantafyllidis2, A.A. Lemonidou1* 1School of Chemical Engineering, 2School of Chemistry, Aristotle University of Thessaloniki, 54124 Thessaloniki, Greece
12:20 – 12:30	SO24	Giulia Forghieri – Università Ca' Foscari Venezia, Via Torino 155, Venezia *Doped-perovskites for the solar-powered photocatalytic valorisation of CO2* Giulia Forghieri a, Giorgia Ferraro a, Somayeh Taghavi b, Michela Signoretto a* a Università Ca' Foscari Venezia, Via Torino 155, Venezia b Faculty of Chemistry, University of Mazandaran, Babolsar 47416-95447, Iran

13:00 – 15:00	Lunch Break	
15:00 – 15:20	OR23	Marina Maddaloni – Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, Brescia (Italy) *Green Hydrogen from Treated Wastewater via SOECs: A Pathway to Circular Economy and Renewable Energy Integration* Marina Maddaloni1, Matteo Marchionni3, Alessandro Abbá1, Michele Mascia3, Vittorio Tola3, Maria Paola Carpanese4, Giorgio Bertanza1 And Nancy Artioli1* 1Department of Civil, Environmental, Architectural Engineering and Mathematics, University of Brescia, via Branze, 43, 25123 Brescia, Italy 2Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM), University of Brescia, via Branze 38, 25123 Brescia, Italy 3Department of Mechanical, Chemical and Materials Engineering, University of Cagliari, via Marengo 2, 09123 Cagliari, Italy 4Department of Civil, Chemical and Environmental Engineering, University of Genova (UNIGEDICCA), via Montallegro 1, 16145 Genoa, Italy
15:20 – 15:40	OR24	Maria Ortega-Jáuregui – Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Pontificia Universidad Católica de Chile, Macul, Santiago (Chile) *Ni exsolved nanoparticles from a La1-αNi1-xCrxO3 perovskite for Methane Steam Reforming* María A. Ortega-Jáuregui*1, 2, Deblina Majumder3, Evangelos I. Papaioannou3 Francisco García-García2, Elodie Blanco1, Néstor Escalona1 1 Departamento de Ingeniería Química y Bioprocesos, Escuela de Ingeniería, Pontificia Universidad Católica de Chile, Macul, Santiago, Chile. 2 Institute for Materials and Processes, School of Engineering, University of Edinburgh, Edinburgh, Scotland, United Kingdom. 3 Materials, Concepts & Reaction
15:40 – 16:00	OR25	Ida Ritacco – Dipartimento di Chimica e Biologia, Università degli Studi di Salerno, Fisciano, Salerno (Italy) *Tailoring catalytic activity of MoS2 catalyst through functionalization with Brønsted-acid ligands: A Computational and experimental study for enhanced Hydrogen Evolution Reaction in Alkaline Media* Ida Ritacco*,1, Giuseppe Santoriello1, Giulia Tuci2, Giuliano Giambastiani2, Matteo farnesi Camellone3, Lucia Caporaso1 1Dipartimento di Chimica e Biologia, Università degli Studi di Salerno, via Giovanni Paolo II 132, 84084 Fisciano, Salerno, Italy 2Institute of Chemistry of OrganoMetallic Compounds, ICCOM-CNR and Consorzio INSTM, Via Madonna del Piano, 10 - 50019, Sesto F.no, Florence, Italy. 3 Consiglio Nazionale delle Ricerche-Istituto Officina dei Materiali (CNR-IOM), 34136 Trieste, Italy
16:00 - 16:20	OR26	Wei Shi – Department of Materials Chemistry, Nagoya University, Furo-cho, Chikusa-ku, Nagoya (Japan) *Platinum-Tin Encapsulated Zeolite Catalysts with High Sn Loading: Boosted Performance in Methylcyclohexane Dehydrogenation* Wei Shi1, Akira Oda*,1, Yuta Yamamoto2, Kyoichi Sawabe1, Atsushi Satsuma1 1Department of Materials Chemistry, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Japan. 2 Institute of Materials and Systems for Sustainability, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, Japan.
16:20 – 16:40	OR27	Amir Yazdani – University of Genoa, DICCA, Genoa (Italy) *Development of a new perovskite electrocatalyst for solid oxide cells with a novel symmetrical geometry* Amir Yazdani*1, Gabriella Garbarino1, Paola Riani2, Juan Basbus1, Maria Paola Carpanese1 1 University of Genoa, Department of Civil, Chemical and Environmental Engineering (DICCA), Via Opera Pia 15, 16145 Genoa, Italy.

		2 University of Genoa, Department of Civil, Chemical and Environmental Engineering (DCCI), Via Dodecaneso 31, 16146 Genoa, Italy.
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO25	withdrawn
17:10 – 17:20	SO26	Andrea Fasolini – 1Dept. of Industrial Chemistry "Toso Montanari", University of Bologna, Bologna (Italy) *Cellulose Aqueous Phase Reforming (APR) using Ni and PtNi based catalyst for hydrogen generation: the unexpected effect of reductive atmosphere* Andrea Fasolini1, Jacopo De Maron1, Andreas Buono1, Eleonora Tosi Brandi1, Francesco Basile1, 1Dept. of Industrial Chemistry "Toso Montanari", University of Bologna, Bologna, Italy
17:20 – 17:30	SO27	Alberta Genco – Department of Engineering (DI), Viale delle Scienze, University of Palermo, Palermo (Italy) *TiO2 or Nb2O5 composites with graphene or graphene oxide as photocatalysts for Photoreforming of organics to obtain H2* Alberta Genco1,2*, Elisa I. García-López3, Narimene Aoun1, Bartolo Megna1, Conchi O. Ania4 , Giuseppe Marcì1 1Department of Engineering (DI), Viale delle Scienze, University of Palermo, Palermo, Italy 2Department of Chemistry, University of Perugia, Perugia, Italy 3Department of Chemistry (STEBICEF) University of Palermo, Italy 4POR2E Group, CEMHTI CNRS (UPR 3079), Université d'Orléans, 45071 Orléans, France
17:30 – 17:40	SO28	Sholpan Itkulova – D.V. Sokolsky Institute of Fuel, Catalysis, and Electrochemistry, Almaty (Kazakhstan) *Revealing the effect of Pd on Co-based catalysts in dry and bi-reforming of methane* Kuralay t. Tilegen1, 2, Sholpan S. Itkulova*1,2, Yerzhan A. Boleubayev1, Aidana K. Aitzhanova1, Makpal A. Zhumash1 1D.V. Sokolsky Institute of Fuel, Catalysis, and Electrochemistry, 142, Kunaev str., Almaty, 050010, Kazakhstan
17:40 – 17:50	SO29	Valeria La Parola – Institute for NanoStructured Materials, Italian National Research Council (ISMN-CNR), Palermo (Italy) *Hydrogen production by chemical looping methane pyrolysis* Luca Consentino1,2, Francesca Deganello2, Rut Guil-Lopez3, Valeria La Parola2*, Leonarda Francesca Liotta2, Giuseppe Pantaleo2 1 Department of Biological, Chemical and Pharmaceutical Sciences and Technologies (STEBICEF), University of Palermo, V.le delle Scienze Ed. 17, 90128 Palermo, Italy; 2 Institute for NanoStructured Materials, Italian National Research Council (ISMN-CNR), Via Ugo La Malfa 153, 90146 Palermo, Italy, 3 Instituto de Catálisis y Petroleoquímica, Spanish National Research Council (ICP-CSIC), 28049 Madrid, Spain
17:50 – 18:00	SO30	Alessia Marino – University of L'Aquila, Department of Physical and Chemical Sciences, L'Aquila (Italy) *Biomass-derived Activated Carbon for H2 storage: influence of solvent and doping agent on the adsorption properties* Alessia Marino1, Carlo Poselle Bonaventura2, Sara Sciarretta1, Giuseppe Conte2, Alfredo Aloise1, Chiara Pelosi3, Andrea Lazzarini1, Celia Duce3, Luca Bernazzani3, Alfonso Policicchio2, Marcello Crucianelli1 1 University of L'Aquila, Department of Physical and Chemical Sciences, via Vetoio, 67100, L'Aquila, Italy. 2 University of Calabria, Physics Department, Via Bucci, 87036, Rende, Cosenza, Italy. 3 University of Pisa, Department of Chemistry and industrial chemistry, Via Moruzzi, 56124, Pisa, Italy.

18:00 – 19:00 parallel to P1 session	ERC and projects session	**Room Isola - RI** 18:00-18:15 Nadine Vermorel, EU-ERC (Brussels, Belgium) *Funding opportunities for the ERC programme* 18:15:18:30 Štěpán Kment, Czech Adv. Techn. and Res.. Inst.(Olomouc, Czech Republic) *Presentation of the SUN4Fuel project* 18:30:18:45 Chiara Genovese, University of Messina (Italy) *Presentation of the ERC Synergy project SCOPE* 18:45:19:00 Rosalba Passalacqua, ERIC aisbl and UniME (Belgium, Italy) *Presentation of the EIC project GreenSwap*