

02/06/2025		
Room Massimo (RM)		
10:00 – 10:20	OR10	Federico Bella – Department of Applied Science and Technology, Politecnico di Torino, Torino (Italy) <i>Lithium-mediated pathways towards ammonia electroproduction</i> Anna Mangini ¹ , Sara Garcia-Ballesteros ¹ , Federico Bella*, ¹ ¹ Department 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) <i>Deconvolving the Standard-SCR Redox Mechanism on Copper-Zeolites for Catalyst Insight and Development</i> Andrea Gjetja ¹ , Nicola Usberti ¹ , Nicole Daniela Nasello ¹ , Umberto Iacobone ¹ , Isabella Nova ¹ , Enrico Tronconi*, ¹ , Roberta Villamaina ² , Maria Pia Ruggeri ² , Djamela Bounechada ² , Andrew P. E. York ² , Jillian Collier ² ¹ Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34, 20156 Milan, Italy ² Johnson 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) <i>Mesoporous Ni/La₂O₃ catalyst for highly efficient NH₃ decomposition</i> Sebastián GAMEZ ¹ *, Josefine SCHNEE ² and Eric M. GAIGNEAUX ¹ 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) <i>Alkaline electrolyzer with nanostructured NiFeP electrodes for hydrogen production</i> Roberto Luigi Oliveri*, ¹ , Salvatore Geraci ¹ , Bernardo Patella ¹ , Giuseppe Aiello ¹ , Sonia Longo ¹ , Alberto Affranchi ¹ , Maurizio Cellura ¹ , Rosalinda Inguanta ¹ ¹ Dipartimento 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) <i>Low-temperature CO₂ methanation over Ni-based catalysts: On the nature of active sites by operando DRIFTS study</i> 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) <i>Photoreforming of Glycerol for H₂ Production Using Au-Ni Catalysts Supported on CeO₂</i> Eleonora La Greca ^{1,2} *, Roberto Fiorenza ² , Maria Teresa Armeli Iapichino ² , Salvatore Scirè ² and Leonarda Francesca Liotta ¹ ¹ Institute for the Study of Nanostructured Materials (ISMN), National Research Council (CNR), Via Ugo La Malfa 153, 90146 Palermo, Italy ² Department of Chemical Science, University of Catania, Viale A. Doria 6, Catania, Italy
		Short Orals
12:20 – 12:30	SO11	Sabrina Akrou – Sorbonne Université, CNRS, Laboratoire Réactivité de Surface, LRS, Paris (France) <i>Green NH₃ Synthesis via Hydroxyapatite-Supported Ru Catalysts for Sustainable H₂ Storage under mild conditions</i> Sabrina Akrou ¹ , Alexandre Vimont ² , Sandra Casale ¹ , Guylène Costentin ¹ 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) <i>Solar Photoreforming of biomass and plastic-derived materials using carbon-based photocatalysts</i> Maria Teresa Armeli Iapichino ^{1*} , Roberto Fiorenza ¹ , Salvatore Scirè ¹ ¹ University 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) <i>Probing the Metal/Oxide Interface of IrCoCeOx in N2H4-H2O Decomposition: An Experimental and Computational Study</i> Ilaria Barlocco ¹ , Silvio Bellomi ¹ , Marta Stucchi ¹ , Laura prati ¹ , Davide Ferri ² and Alberto Villa ¹ 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 CH ₄ pyrolysis: characterizing C formation to understand catalyst deactivation Lidia CASTOLDI ¹ , Veronica PIAZZA ¹ , Chiara NEGRI ¹ , Marco ORSENIGO ¹ , Davide CAFARO ¹ , Matteo MAESTRI ¹ , Gianpiero GROPPI ¹ , Alessandra BERETTA [*] , ¹ ¹ Laboratory 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) <i>Revisiting Electrochemical Breakpoint Chlorination of Ammonium-Rich Wastewater: Reactive Chlorine Speciation on IrTaOx/TiO₂</i> Hyeonjeong Kim ¹ and Kangwoo Cho [*] , ¹ ¹ Pohang 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) <i>Detection of Hydroxylamine Intermediate Opens a New Perspective on Ammonia Selectivity in Metal-Catalyzed Nitrate Reduction</i> Janek Betting [*] , ¹ , Leon Lefferts ¹ , Jimmy Faria Albanese ¹ ¹ University 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) <i>Catalytic hydrogenation of chlorated oxyanions in water with Pt-catalysts</i> Antonio Eduardo Palomares ¹ , Adrián Pla-Hernández ¹ , Nadia Benmebirouk-Pareja ¹ ¹ Instituto 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) <i>Catalytic ozonation of pharmaceutical mixtures: A comprehensive analysis of catalyst efficacy, degradation pathways and recyclability</i> Pasi Tolvanen [*] ¹ , Soudabeh Saeid ¹ , Matilda Kråkström ¹ , Shey Jude Fale ^{1,3} , Nikke Saarinen ¹ , Jonna Engström-Öst ³ , Narendra Kumar, Patrik Eklund ¹ , Jyri-Pekka Mikkola ¹ , Tapio Salmi ^{1,2} ¹ Åbo 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) <i>Facile coating of reduced graphene oxide and TiO₂ on floating polyurethane foams for photocatalytic water decontamination</i> Anna Dotti ^{1*} , Andrea Basso Peressut ¹ , Roberto Matarrese ² , Saverio Latorrata ¹ ¹ Politecnico di Milano, Dipartimento di Chimica, Materiali e Ingegneria Chimica “Giulio Natta”, Piazza Leonardo da Vinci 32, 20133, Milano, Italy. ² Politecnico 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) <i>Nanoceria as acid-base catalyst for hydrolysis of sulfonamides, sulfonylureas and other emerging pollutants</i> Jan Čundrlík ¹ , Martin Šťastný ¹ , Jakub Ederer ² , Pavel Janoš ² , Jiří Henych ^{*,1} ¹ Institute 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) <i>Efficient palladium recovery and catalyst development from electroplating wastewater using functionalized carbon materials</i> Elena Mariani ^{1,2,3,*} , Marco Bonechi ^{1,2} , Ilaria Maggini ¹ , Claudia Giovani ¹ , Leonardo Lari ^{4,5} , Matteo Savastano ^{2,6} , Claudio Fontanesi ^{2,7} , Antonio Bianchi ¹ , Massimo Innocenti ^{1,2} 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) <i>Bacterial Disinfection from Selected Water Pathogens Using an Iron-doped TiO₂ Photocatalyst Under Visible Light</i> Najeebullah Channa ^{*1} , Francesca Stefania Freyria ¹ , Tanveer A. Gadhi ² , Alessandro Chiadò ¹ , Nicola Blangetti ¹ , Barbara Bonelli ¹ 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.
17:50 – 18:00	SO20	Eleonora Russo – University of Padua, Department of Industrial Engineering, Padova (Italy) <i>Study on the photodegradation of pharmaceuticals using graphitic carbon nitride derivatives</i> Eleonora Russo ^{*,1} , Eryk Fernandes ² , João Gomes ² , Paolo Sgarbossa ¹ , Rui C. MARTINS ²

		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

03/06/2025		
Room Massimo (RM)		
10:00 – 10:20	OR37	Luke Harvey – The University of Newcastle, Chemical Engineering, University Drive, Callaghan, Australia <i>Enhanced Bio-Oil Upgrading: Mesoporous and Zeolitic Catalysts for Polyaromatic Hydrocarbon Conversion</i> Luke Harvey, Thoams Doyle, Rahim Kamari, Eric Kennedy, Michael Stockenhuber The University of Newcastle, Chemical Engineering, University Drive, Callaghan, Australia
10:20 – 10:40	OR38	Lingxi Zhou – State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing (China) <i>Intrinsic metal-support interactions break the activity-stability dilemma in electrocatalysis</i> Lingxi Zhou ¹ , Menghao Yang ² , Yihong Liu ² , Feiyu Kang ^{3,4} and Ruitao Lv ^{*1,4} ¹ State Key Laboratory of New Ceramics and Fine Processing, School of Materials Science and Engineering, Tsinghua University, Beijing, China ² Shanghai Key Laboratory for R&D and Application of Metallic Functional Materials, School of Materials Science and Engineering, Tongji University, Shanghai, China ³ Institute of Materials Research and Shenzhen Geim Graphene Center, Tsinghua Shenzhen International Graduate School, Tsinghua University, Shenzhen, China ⁴ Key Laboratory of Advanced Materials (MOE), School of Materials Science and Engineering, Tsinghua University, Beijing, China
10:40 – 11:00	OR39	Maria Elena Azzoni – Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, POLIMI, Milano (Italy) <i>N₂O decomposition on Fe/CHA catalyst using transient response methods</i> Maria Elena Azzoni ¹ , Nicola Usberti ¹ , Andrea Gjetja ¹ , Isabella Nova ¹ , Enrico Tronconi ^{1*} , Roberta Villamaina ² , Maria Pia Ruggeri ² , Veselina Georgieva ² , Loredana Mantarosie ² , Jill Collier ² ¹ Laboratory of Catalysis and Catalytic Processes, Dipartimento di Energia, Politecnico di Milano, Via La Masa, 34, 20156 Milan, Italy ² Johnson Matthey Technology Centre, Blounts Court Road, Sonning Common, Reading RG4 9NH, UK
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR40	Li-Yi Chen – New Materials Research & Development Department, China Steel Corporation, Kaohsiung City (Taiwan) <i>Pilot-Scale Evaluation of a Multi-Promoters Modified V/Ti-Based SCR Catalyst for Medium-Low Temperature DeNO_x in Coking Plant Flue Gas</i> Li-Yi Chen [*] , Chi-Lang Chen, Wen-Chang Chen ¹ New Materials Research & Development Department, China Steel Corporation, No. 1, Zhonggang Rd., Xiaogang Dist., Kaohsiung City, Taiwan
11:40 – 12:00	OR41	Alice Gramegna – Chemical Plants and Industrial Chemistry Group, Dip. Chimica, Università degli Studi di Milano, Milan (Italy) <i>New Technologies for Sustainable Valorisation of CH₄ and CO₂ from Livestock and Biogas</i> Ilenia Rossetti ^{1,2,*} , Alice Gramegna ^{1,2} , Matteo Tommasi ¹ , Simge Naz Degerli ² , Gianguido Ramis ³ ¹ Chemical Plants and Industrial Chemistry Group, Dip. Chimica, Università degli Studi di Milano, Via C. Golgi 19, 20133 Milan, Italy

		2 INSTM Unit Milano-Università, Via C. Golgi 19, 20133 Milan, Italy 3 DICCA, Università degli Studi Genova, via all'Opera Pia 15A, 16145 Genoa, Italy
12:00 – 12:20	OR42	Tetyana Zheleznyak – University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague (Czech Republic) <i>Modeling of Cu/SSZ-13 SCR catalyst sulfation depending on HTA-induced changes in ZCuOH and Z2Cu site distribution</i> Tetyana Zheleznyak ¹ , Petr Kočí ^{*,1} , William S. Epling ² ¹ University of Chemistry and Technology, Dept. of Chemical Engineering, Technická 5, Prague, Czech Republic. ² University of Virginia, Dept. of Chemical Engineering, 385 McCormick Rd, Charlottesville, USA.
		Short Orals
12:20 – 12:30	SO41	Marco Francesco Torre – ChiBioFarAm – University of Messina, ERIC aisbl and CASPE/INSTM, Messina (Italy) <i>Plasma-assisted electrochemical conversion of nitrogen to ammonia under ambient conditions</i> Marco Francesco Torre ^{*,1} , Lavanya Veerapuram ¹ , Francesco Tavella ¹ , Siglinda Perathoner ¹ , Gabriele Centi ¹ , Chiara Genovese ¹ , Claudio Ampelli ¹ 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
12:30 – 12:40	SO42	Xuerui Zheng – Department of Interdisciplinary Engineering Sciences, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Kasuga, Fukuoka (Japan) <i>Application of Manganese oxides support on Zeolite Y Catalysts in Benzene Total Oxidation</i> Xuerui ZHENG ¹ , Hisahiro EINAGA ^{*,2} ¹ Department of Interdisciplinary Engineering Sciences, Interdisciplinary Graduate School of Engineering Sciences, Kyushu University, Kasuga, Fukuoka, Japan. ² Department of Material Sciences, Faculty of Engineering Sciences, Kyushu University, Kasuga, Fukuoka, Japan.
12:40 – 12:50	SO43	Magdalena Żurowska – Faculty of Chemistry, Jagiellonian University, Kraków (Poland) <i>Uniform SiO₂@CeO₂ core-shell structures doped with CuO and Co₃O₄ as efficient catalysts for toluene combustion</i> Magdalena Żurowska ^{*,1,2} , Anna Rokicińska ¹ , Dominika Aśniowska ¹ , Marek Dębosz ¹ , Piotr Kuśtrowski ¹ ¹ Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, Kraków, Poland. ² Doctoral School of Exact and Natural Sciences, Jagiellonian University, Łojasiewicza 11, Kraków, Poland.
12:50 – 13:00	SO44	Stephane Siffert – Unité de Chimie Environnementale et Interactions sur le Vivant (UCEIV UR 4492), Université du Littoral Côte d'Opale, Dunkerque (France) <i>Enhancing Catalytic Activity through Manganese Addition in Co or Cu Mixed Oxides for catalytic treatment of wood combustion emissions</i> C.E. Bounoukta ¹ , C. Paris ¹ , M. Tannous ¹ , É. Genty ¹ , F. Devred ² , C. Poupin ¹ , S. Siffert ¹ , É. Gaigneaux ² , R. Cousin ¹ ¹ Unité de Chimie Environnementale et Interactions sur le Vivant (UCEIV UR 4492), Université du Littoral Côte d'Opale, 145 avenue Maurice Schumann 59140 Dunkerque (France) ² Institute of Condensed Matter and Nanosciences, Place Pasteur 1, L4.01.09, B-1348 Louvain-la-Neuve (Belgium)
13:00 – 15:00		Lunch Break
15:00 – 15:40	KN5	Marco Daturi – Université de Caen Normandie, ENSICAEN, CNRS, LCS, Laboratoire Catalyse et Spectrochimie, Caen (France) <i>Room temperature reduction of NO without reductants on iron Metal-Organic Frameworks</i> Marco Daturi ^{*,1} , Vanessa Blasin-Aubé ¹ , Ji Wong Yoon ^{1,2} , Philippe Bazin ¹ , Alexandre Vimont ¹ , Jong-San Chang ^{1,2} , Stefan Wuttke ^{1,4,5} , Christian Serre ⁵

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15:40 – 16:00	OR43	Angiolina Comotti – University of Milano-Bicocca, Dept. of Materials Science, Milan (Italy) <i>Porous Materials and CO₂ capture</i> Silvia Bracco¹, Jacopo Perego¹, Charl X. Bezuidenhout¹, Armando Rigamonti^{1,2}, Angiolina Comotti*,¹ ¹University of Milano-Bicocca, Dept. of Materials Science, Via R. Cozzi 55, Milan, Italy. ² University of Messina, Dept. of Chem., Biol., Pharm. and Environ. Sciences, Via F. Stagno d'Alcontres 31, Messina, Italy.
16:00 – 16:20	OR44	Takuma Higo – Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo (Japan) <i>N₂O decomposition using an electric-field-assisted catalysis at low temperatures</i> Takuma Higo¹, Ayaka Shigemito¹, Yuki Inoda¹, Chihiro Ukai, Kenta Mitarai², Yasushi Sekine*,¹ ¹Waseda University, Department of Applied Chemistry, Shinjuku, Tokyo, Japan.
16:20 – 16:40	OR45	Marc Maurer – Karlsruhe Institute of Technology (KIT), Institute of Catalysis Research and Technology (IKFT), Karlsruhe (Germany) <i>Effect of promoters on the performance of Pt/TiO₂ catalyst for NO_x removal by selective catalytic reduction (SCR) with H₂</i> Marc Maurer¹, Maria Casapu², Jan-Dierk Grunwaldt^{1,2} ¹Karlsruhe Institute of Technology (KIT), Institute of Catalysis Research and Technology (IKFT), Hermann-von-Helmholtz-Platz 1, Karlsruhe, Germany. ² Karlsruhe Institute of Technology (KIT), Institute for Chemical Technology and Polymer Chemistry (ITCP), Engesserstraße 20, Karlsruhe, Germany.
16:40 – 17:00	Coffee-Break	
		Short Orals
17:00 – 17:10	SO45	Thaieny Zucolotto – University of São Paulo, Department of Chemical Engineering, São Paulo (Brazil) <i>Comparative Study of SBA-15 and CNT Supports for Iron Catalysts in Fischer-Tropsch Synthesis</i> Thaieny Zucolotto*,¹, Martin Schmal¹, Anna Zimina², Jan-Dierk Grunwaldt², Reinaldo Giudici¹ ¹University of São Paulo, Department of Chemical Engineering, Av. Prof. Luciano Gualberto, travessa 3, n. 380, São Paulo, Brazil. ² Karlsruhe Institute of Technology, Department of Catalysis and Operando Spectroscopy, Hermann-von-Helmholtz-Platz - 76344, Karlsruhe, Germany.
17:10 – 17:20	SO46	withdrawn
17:20 – 17:30	SO47	Alessia Cometto – Politecnico di Torino, Department of Applied Science and Technology (DISAT), Turin (Italy) <i>Investigating Acidic Supports for Site-Selective Platinum Nanoparticles in VOC Oxidation</i> Alessia COMETTO¹*, Enrico Sartoretti¹, Nunzio Russo¹, Samir Bensaid¹. ¹Politecnico di Torino, Department of Applied Science and Technology (DISAT), Corso Duca degli Abruzzi 24, 10129 Turin, Italy.
17:30 – 17:40	SO48	Renaud Cousin – Unité de Chimie Environnementale et Interactions sur le Vivant (UCEiV), Université du Littoral Côte d'Opale (ULCO), Dunkerque (France)

		<i>Impact of Cu/Mn ratio for CuMnOx prepared by oxalate coprecipitation: the essential point for total oxidation of model pollutants issued from biomass combustion</i> Julien Machinski¹, Eric Genty¹, Charf Eddine Bounoukta¹, Christophe Poupin¹, Valeria La Parola², Stéphane Siffert¹, Elise Berrier³, Leonarda Francesca Liotta², Renaud Cousin^{1*} ¹ Unité de Chimie Environnementale et Interactions sur le Vivant (UCEiV), Université du Littoral Côte d'Opale (ULCO), Dunkerque, 59140, France ² Institute for the Study of Nanostructured Materials (ISMN)-CNR, Via Ugo La Malfa, 153, Palermo, 90146, Italy ³ Unité de Catalyse et Chimie du Solide (UCCS), UMR 8181, Université de Lille, CNRS, Centrale Lille, Université Artois, Lille, 59000, France
17:40 – 17:50	SO49	Federica De Luca – IERIC aisbl and CASPE/INSTM, Dpt. ChiBioFarAM University of Messina, Messina (Italy) <i>Citrus Waste to Carbon Catalysts: A Sustainable Approach to CO₂ Reduction</i> Federica De Luca*,¹ Palmarita Demoro,¹ Imen Sghaier,¹ Izuchica Nduka,² Rosa Arrigo,² Siglinda Perathoner,¹ Gabriele Centi¹, Salvatore Abate ¹ ¹IERIC aisbl and CASPE/INSTM, Dpt. ChiBioFarAM University of Messina Viale F. Stagno D'Alcontres 31, Messina, 98166, Italy ²School of Science, Engineering and Environment University of Salford M5 4WT, Manchester, UK
17:50 – 18:00	SO50	Alessandro Allegri – Alma Mater Studiorum – University of Bologna, Department of Industrial Chemistry “Toso Montanari”, C3 – Center for Chemical Catalysis, CIRI-FRAME, Bologna (Italy) <i>Rational optimisation of biomass-derived γ-valerolactone cascade synthesis</i> Alessandro Allegri¹, Luca Ciacci¹, Fabrizio Passarini¹, Andrea Brigladori², Claudio Oldani³, Giuseppe Fornasari¹, Stefania Albonetti^{1*} ¹ Alma Mater Studiorum – University of Bologna, Department of Industrial Chemistry “Toso Montanari”, C3 – Center for Chemical Catalysis, CIRI-FRAME, Via P. Gobetti 85, Bologna, Italy. ² CNR-ISSMC (Former ISTEC), National Research Council of Italy-Institute of Science, Technology and Sustainability for Ceramics, Faenza, Italy. ³ Syensqo, Bollate, Italy.
18:00 – 19:00	CH P2	Poster session (Hallway) P2

04/06/2025		
Room Massimo - RM		
10:00 – 10:20	OR67	Joanna Gryboś – <i>Redox Behavior of Manganese Oxide Catalysts in Thermochemical Redox Cycles: Mechanistic Insights from In Situ TEM and DFT Investigations</i> Joanna Gryboś¹, Karol Górecki, Monika Fedyna, Michał Pacia, Zbigniew Sojka ¹Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, 30-387 Kraków, Polska.
10:20 – 11:00	KN8	Roberta Villamaina – Johnson Matthey Technology Centre, Blounts Court Road, RG4 9NH, UK <i>Challenges and performance of Cu-SCR catalysts under H₂-ICE conditions</i> Roberta Villamaina^{1*}, Maria Pia Ruggeri², Paul Millington¹, Husn Islam¹, Lisa Allen¹, David Bergeal², Jill Collier¹ ¹Johnson Matthey Technology Centre, Blounts Court Road, RG4 9NH, UK ²Johnson Matthey, Orchard Road, Royston, SG8 5H2, UK
11:00 – 11:20	Coffee-Break	
11:20 – 11:40	OR68	Simone Perego – Istituto Italiano di Tecnologia, Atomistic Simulations, Genoa (Italy) Unraveling the catalytic activity of FeCo alloys for ammonia decomposition via molecular dynamic simulations

		Simone Perego ^{1*} , Luigi Bonati ¹ , Michele Parrinello ¹ 1 Istituto Italiano di Tecnologia, Atomistic Simulations, 16165 Genoa, Italy.
11:40 – 12:00	OR69	Silmina Silmina – Tokyo University of Agriculture and Technology, Graduate School of Bio-Applications and Systems Engineering, Nakacho, Tokyo (Japan) <i>Bio Oil Steam Reforming over Mesoporous Hexagonal and Noncapsular Ni Nanoparticle Catalyst Prepared Using Post Loading and Co-Assembly Strategy</i> Silmina ¹ , Naoko Suyama, Kenji Kamiya and Eika W. Qian* 1 Tokyo University of Agriculture and Technology, Graduate School of Bio-Applications and Systems Engineering, Nakacho, 2-24-16, Koganei, Tokyo 184-8588, Japan
12:00 – 12:20	OR70	Zbigniew Sojka – Faculty of Chemistry Jagiellonian University, Krakow (Poland) <i>Decomposition of N₂O on Redox-Tuned Cobalt Spinel Catalysts – Molecular Orbital Resolution of Reaction Mechanism</i> Leszek Nowakowski, Camillo Hudry, Filip Zasada, Zbigniew Sojka* Faculty of Chemistry Jagiellonian University, ul. Gronostajowa 2, 30-387 Krakow, Poland
12:20 – 12:40	OR71	Felix Ott, RWTH Aachen University, Aachen (Germany) <i>Monitoring the active site of CeO₂ supported Pd by H₂-D₂ exchange and EXAFS</i> Felix Ott ¹ , Chalachew Mebrahtu ^{1,2} , Regina Palkovits ^{*1,2} 1 Institute of Technical and Macromolecular Chemistry, RWTH Aachen University, Aachen, Germany 2 Institute for Sustainable Hydrogen Economy, Forschungszentrum Jülich GmbH, Jülich, Germany
12:40 – 13:00	OR72	Choji Fukuhara - Department of Applied Chemistry and Biochemical Engineering, Graduate School of Engineering, Shizuoka University, Shizuoka (Japan) <i>Innovative CO₂ recycling system with powerful performance for converting GHG: Multi-stage structured catalyst system for methanation, dry reforming and carbon-capture</i> Choji Fukuhara*, Yuki Yamada, Yu Nakazawa, Hiroshi Akama, Ryo Watanabe Department of Applied Chemistry and Biochemical Engineering, Graduate School of Engineering, Shizuoka University, 3-5-1 Johoku, Chuo-ku, Hamamatsu, Shizuoka, Japan
13:00 – 15:00	Lunch Break	
		Short Orals
15:00 – 15:10	SO71	Riccardo Colombo – POLIMI, Department of Energy, LCCP group, Milan (Italy) <i>Surface Carbon Formation and its Impact on Methane Dry Reforming Kinetics on Rhodium-Based Catalysts by Operando Raman Spectroscopy</i> Riccardo Colombo ¹ , Gianluca Moroni ¹ , Chiara Negri ¹ , Matteo Monai ² , Bert M. Weckhuysen ² , Matteo Maestri ^{1*} 1 Politecnico di Milano, Department of Energy, LCCP group, via La Masa 34, 20156 Milan, Italy 2 Utrecht University, Inorganic Chemistry and Catalysis Group, Universiteitsweg 99, Utrecht, The Netherlands
15:10 – 15:20	SO72	Elisabetta Petri – Dept. of Chemistry “Giacomo Ciamician”, University of Bologna, Bologna (Italy) <i>Valorization of different organic waste sources for electrochemical applications: Process and life cycle assessment</i> E. Petri ¹ , S. El Yamani ^{2,3} , F. Capodarca ¹ , A. Primante ^{2,3} , A. Contin ^{2,3} , F. Soavi ^{1,3*} 1 Dept. of Chemistry “Giacomo Ciamician”, University of Bologna, Via Selmi 2, 40126, Bologna, Italy 2 Dept. of Physics and Astronomy "Augusto Righi", University of Bologna, Viale Berti Pichat 6/2, 40127, Bologna 3 Centre for the Environment, Energy, and Sea - Interdepartmental Centre for Industrial Research in Renewable Resources, Environment, Sea and Energy (CIRI-FRAME), University of Bologna, Viale Ciro Menotti 48, 48122, Marina di Ravenna, Italy
15:20 – 15:30	SO73	Elisabeth Herzinger – KIT, Institute of Catalysis Research and Technology (IKFT), Eggenstein-Leopoldshafen (Germany) <i>Bimetallic Platinum-Rhenium Catalysts: Enhancing Hydrogen Storage Efficiency through Material Optimization and Synthesis Modification</i> Elisabeth Herzinger ¹ , Hannah Park ¹ , Jennifer Weimann ¹ , Moritz Wolf ^{*,1,2}

		1 Karlsruhe Institute of Technology (KIT), Institute of Catalysis Research and Technology (IKFT), Hermann-von-Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen, Germany. 2 Karlsruhe Institute of Technology (KIT), Engler-Bunte-Institut (EBI), Engler-Bunte-Ring 1, 76131 Karlsruhe, Germany.
15:30 – 15:40	SO74	Plaifa Hongmanorom – Institute of Condensed Matter and Nanoscience, UCLouvain, Louvain-La-Neuve (Belgium) <i>Spark-ablated metal nanoparticle catalysts supported on TiO₂ for CO₂ methanation</i> Plaifa Hongmanorom ¹ , Damien P. Debecker*, ¹ ¹ Institute of Condensed Matter and Nanoscience, UCLouvain, Place Louis Pasteur 1, Louvain-La-Neuve, Belgium.
		Orals
15:40 – 16:00	OR73	Ryo Watanabe – Department of Applied Chemistry and Biochemical Engineering, Graduate School of Engineering, Shizuoka University, Hamamatsu, Shizuoka (Japan) <i>Powerful CO₂ methanation system by electrically heating spiral-type structured catalyst</i> Ryo Watanabe, Kohki Nishide, Hiroshi Akama, Choji Fukuhara* Department of Applied Chemistry and Biochemical Engineering, Graduate School of Engineering, Shizuoka University, 3-5-1 Johoku, Chuo-ku, Hamamatsu, Shizuoka, Japan
16:00 – 16:20	OR74	Angelina Barthelmeß – KIT, Eggenstein-Leopoldshafen (Germany) <i>Enhancing CO₂ Hydrogenation Efficiency through in situ Formation of Active Species in Carbon Nitride Modified Catalysts</i> Angelina Barthelmeß, ¹ Dan Zhao, ¹ Maik Kahnt, ² Michael Zimmermann, ¹ Enrico Tusini, ¹ Timo Van Roje, ¹ Cherie Hsu, ¹ Thomas Sheppard, ¹ Anna Zimina, ¹ JAN-Dierk Grunwaldt, ¹ Moritz Wolf ¹ * ¹ Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen/Germany, ² MAX IV Laboratory, Lund/Sweden
16:20 – 16:40	OR75	Nassima Berroug – Chemical Technologies for Environmental Sustainability Group, Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country, Bilbao (Spain) <i>Nickel acetylacetonate grafted on CaO-modified hydroxyapatite catalysts for enhanced performance in decarbonization processes : Effect of Ni loading</i> Nassima Berroug*, Miguel A. Gutiérrez-Ortiz, Juan R. González-Velasco, Zouhair Boukha Chemical Technologies for Environmental Sustainability Group, Department of Chemical Engineering, Faculty of Science and Technology, University of the Basque Country UPV/EHU, P.O. Box 644, E-48080, Bilbao, Spain
16:40 – 17:00		Coffee-Break
17:00 – 17:20	OR76	Catia Cannilla – Institute of Advanced Technology for Energy CNR-ITAE, Messina (Italy) <i>Effect of the pre-activation conditions on the nature of the active sites generated during CO₂ hydrogenation to MeOH over Cu-based catalysts</i> Catia Cannilla* ¹ , Mariarita Santoro ¹ , Serena Todaro ¹ , Hanna Solt ² , Ferenc Lonyi ² , Francesco Arena ¹ , Giuseppe Bonura ¹ ¹ Institute of Advanced Technology for Energy CNR-ITAE, S. Lucia sopra Contesse, 5, 98126 Messina, Italy. ² Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Magyar tudósok körútja 2, H-1117, Budapest, Hungary.
17:20 – 17:40	OR77	Giuliano Giambastiani – University of Florence, Dept. of Chemistry “U. Schiff” DICUS, Sesto Fiorentino (Italy) <i>A Phoenix-like Covalent Triazine Framework as a Selective CO₂-to-Formate Electrocatalyst</i> Giuliano Giambastiani*, ^{1,2} Giulia Tuci, ² Andrea Rossin, ² Claudio Evangelisti, ³ Giovanni Valenti, ⁴ Francesco Paolucci, ⁴ Yuefeng Liu ⁵ ¹ University of Florence, Dept. of Chemistry “U. Schiff” DICUS, Via della Lastruccia 13, Sesto Fiorentino, Italy. ² Institute of Chemistry of OrganoMetallic Compounds, ICCOM-CNR and Consorzio INSTM, Via Madonna del Piano, 10 - 50019, Sesto Fiorentino, Florence, Italy.

		3 Institute of Chemistry of OrganoMetallic Compounds, ICCOM-CNR, Via G. Moruzzi 1 – 56124, Pisa, Italy. 4 Department of Chemistry “Giacomo Ciamician”, University of Bologna, 40126 Bologna, Italy. 5 Dalian National Laboratory for Clean Energy (DNL), Dalian Institute of Chemical
17:40 – 18:00	OR78	Hsin Yu Chen – National Tsing Hua University, Department of Materials Science and Engineering, Hsinchu (Taiwan) <i>Atomic-scale insights into nanostructured MgO for thermocatalytic CO₂-to-CO conversion</i> Hsin-Yu Chen^{1,2}, Shih-Yuan Chen^{*3}, Cheng-Hsi Yeh², Chien-Neng Liao^{1,4}, and Hsin-Yi Tiffany Chen^{*1,2,4} ¹National Tsing Hua University, Department of Materials Science and Engineering, Hsinchu 300044, Taiwan. ²National Tsing Hua University, Department of Engineering and Systems Science, Hsinchu 300044, Taiwan. ³National Institute of Advanced Industrial Science and Technology (AIST), Energy Catalyst Technology Group, Energy Process Research Institute (EPRI), 16-1 Onogawa, Tsukuba, Ibaraki 305-8569, Japan. ⁴College of Semiconductor Research, National Tsing Hua University, Hsinchu 300044, Taiwan.
		Short Orals
18:00 – 18:10	SO75	Luciano Atzori – University of Cagliari, Department of Chemical and Geological Sciences, Monserrato (Italy) <i>Mesoporous Ni/ZrO₂-SiO₂ catalysts for the Dry Reforming of Methane</i> Luciano Atzori^{*,1,2}, Daniela Meloni¹, Elisabetta Rombi^{1,2}, M. Giorgia Cutrufello^{1,2} ¹University of Cagliari, Department of Chemical and Geological Sciences, Monserrato (CA), Italy. ²National Interuniversity Consortium of Materials Science and Technology (INSTM), Florence, Italy.
18:10 – 18:20	SO76	Jung-Sik Kim – University of Seoul, Department of Materials Science and Engineering, Seoul (Republic of Korea) <i>Enhanced Photocatalytic Performance of (TiO₂-WO₃) Supported on Sr₄Al₁₄O₂₅:Eu, Dy under Visible Light</i> Hyun-sung KANG, Jung-Sik KIM[*] The University of Seoul, Department of Materials Science and Engineering, Seoul 02504, Republic of Korea
18:20 – 18:30	SO77	Neha Choudhary – Institut Jean Le Rond D’Alembert, Sorbonne Université, CNRS UMR 7190, Saint-Cyr-L’Ecole (France) <i>Ni nanoparticles decorated over Y³⁺ promoted CeO₂ single-atom catalysts for enhanced low-temperature CO₂ methanation</i> Neha Choudhary¹, Navdeep Srivastava², Biplab Ghosh³, Patrick Da Costa^{*1} ¹Institut Jean Le Rond D’Alembert, Sorbonne Université, CNRS UMR 7190, 2 Place de la Gare de Ceinture, 78210 Saint-Cyr-L’Ecole, France ²Department of Chemistry, Indian Institute of Technology-Indore, Simrol, Khandwa
18:30 – 18:40	SO78	Maria Córdoba Rodríguez – Technologies for Environmental Sustainability Group, Department of Chemical Engineering, Faculty of Science and Technology, University of The Basque Country UPV/EHU, Bizkaia (Spain) <i>Novel bimetallic La-Ni and Ba-Ni ceramic foams for dry reforming of methane</i> María Córdoba^{*1}, Andoni Choyal¹, Beatriz De Rivas¹, Jose Ignacio Gutiérrez-Ortiz¹, Rubén López-Fonseca¹ ¹Technologies for Environmental Sustainability Group, Department of Chemical Engineering, Faculty of Science and Technology, University of The Basque Country UPV/EHU, Barrio Sarriena s/n, Leioa, Bizkaia E-48940, Spain.
18:40 – 18:50	SO79	Shafiq Falak – University of Milano-Bicocca, Dept. of Materials Science, Milano (Italy) <i>Design of nanostructured Cu oxides for the electrocatalytic CO₂ reduction</i> Falak Shafiq^{*,1}, Davide Melotto¹, Tatiana Rodriguez-Flores¹, Laura Vigni², Mariangela Longhi², Marco Montalbano², Maria Vittoria Dozzi², Lorenzo Mino³, Roberto Nistico¹

		1 University of Milano-Bicocca, Dept. of Materials Science, Via R. Cozzi 55, Milano, Italy. 2 University of Milano, Dept. of Chemistry, Via C. Golgi 19, Milano, Italy. 3 University of Torino, Dept. of Chemistry and NIS Centre, Via P. Giuria 7, Torino, Italy.
18:50 – 19:00	SO80	Carlo Giorgio Visconti – Dipartimento di Energia, POLIMI, Milano, (Italy) <i>Unravelling S Poisoning Effects on Ru/Al₂O₃ CO₂ Methanation Catalysts Through in-situ and ex-situ Approaches</i> Clara Larghi ¹ , Alessandro Porta ¹ , Carlo Giorgio Visconti ¹ , János Szanyi ^{2*} , Luca Lietti ^{1*} ¹ Dipartimento di Energia, Politecnico Di Milano, Milano, 20156, Italy ² Institute for Integrated Catalysis, Pacific Northwest National Laboratory, Richland, 99352, WA, USA

05/06/2025		
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) <i>TiO₂ on Gold Nanostars Enhances Photocatalytic Water Reduction in the Near Infrared Regime</i> Camilla Monacciani, Debora Ferrari, Tiziano Dainese, Chiara Deriu, and Laura Fabris Polytechnic 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) <i>Porous Macroligands for Heterogenized Photocatalytic Solar Fuel Production</i> Jérôme Canivet*, Emilien Chaigne--Tarlottin, 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) <i>Electrification by Induction Heating for Sustainable Dehydrogenation of Ethylbenzene to Styrene</i> Ahmed Ragab Saleh Belmashkan, ¹ Gianfranco Giorgianni ¹ , Vahideh Abbassi ¹ , Siglinda Perathoner ¹ , Gabriele Centi ¹ , Angelo Ferrando ² , Gianni Marchetti ² , Salvatore Abate ^{1*} 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) <i>Modification of Ordered Mesoporous Carbon materials for Enhancing the Electrocatalytic Oxidation of Phenol to p-benzoquinone</i> 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) <i>Unveiling the deactivation process of Amberlyst-15 in the etherification reaction of glycerol with ethanol</i>

		Mario Samperi ¹ , Giuseppe Bonura ¹ , Mariarita Santoro ¹ , Serena Todaro ¹ , Alessandro Cajumi ² , Mauro Failla ¹ , Francesco Arena ² , Catia Cannilla ¹ 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. <i>Steel slag as a highly efficient catalyst for hydrodeoxygenation of fatty acids: from a residue to a precious material for renewable fuels production</i> Stefano Savino ^{1,*} , Giuseppe Guglielmo ² , Rosella Attrotto ² , Elena Ghedini ³ , Michele Casiello ¹ , Fiorenza Fanelli ¹ , Lucia D'accolti ^{1,3} , Angelo Nacci ^{1,3} 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) <i>Innovative metal functionalized hydroxyapatite/carbon nitride nanocomposite material to enhance CO₂ electroreduction to formate</i> Michele Bigica, ¹ Sebastiano Campisi, ¹ Antonella Gervasini, ¹ Pierangela Cristani, ² Andrei Khodakov, ³ Vitaly Ordonsky ³ 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) <i>Direct hydrogenation of CO₂ into liquid hydrocarbons: kinetics and reactor design</i> Antoinette Maarawi Chidraoui [*] , ¹ , Carlotta Panzone ¹ , Alban Chappaz ¹ , Geneviève Geffraye ¹ , Albin Chaise ¹ 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) <i>CO₂ Sorption Accelerated by Mechanical Grinding</i> Maria Rosaria Acocella [*] ¹ , Aida Kiani, ² Katerina Kostantinova Charakova ¹ 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) <i>Oxidative dehydrogenation of ethane combined with CO₂ splitting via chemical looping technique utilising redox of In₂O₃</i> Kosuke Watanabe ¹ , Takuma Higo ¹ , Koki Saegusa ¹ , Sakura Matsumoto ¹ , Hiroshi Sampei ¹ , Yuki Isono ² , Akira Shimojuku ² , Hideki Furusawa ² , And Yasushi Sekine ^{1*} 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) <i>Structurally Controllable Strong Acid Mesoporous Catalyst SBA-15-TESBS: Synthesis and Application in Biodiesel Production</i> 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).

		<i>Designing Holistic Biorefinery Solutions: Process Optimisation and Technoeconomic Viability of Glycerol derived High Energy-Density Fuel Additives</i> 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) <i>Spent Lithium Cobalt Oxide Batteries: Heterogeneous Catalyst for Upcycling Lignocellulosic Biomass</i> 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)) <i>Conversion of glucaric acid to adipic acid by Pd–ReOx catalyst supported on carbon-based materials</i> Rosalba Passalacqua*1, Salvatore Abate1, Siglinda Perathoner1, Gabriele Centi1, Alfredo Aloise2, Cristiano Maesani3, 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) <i>Sulfonated metal oxide catalysts for the cascade conversion of levulinic acid to isopropyl levulinate and γ-valerolactone</i> 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) <i>Model molecule investigation for the reductive catalytic fractionation of lignin using innovative magnetic catalysts</i> 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) <i>Exploring BaTiO₃-Derived Materials for Advancing SOFC Electrode Performance</i> 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) <i>Integrated direct air capture and activation of CO₂ on metal-free covalent triazine frameworks</i>

		Fabian H. Müller ¹ , Chalachew Mebrahtu ^{1,2} , 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) <i>Dry Reforming of Biogas over La_{0.9}Sr_{0.1}Fe_{0.95}Ni_{0.05}O₃ Perovskite for Syngas Production</i> María Romay ¹ , David P. Serrano ^{1,2} , José.M Escola ² , 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. <i>Effective conversion of CO₂ at lower temperatures in an electric field</i> Yasushi Sekine ^{*,1} 1 Waseda 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) <i>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</i> Katarzyna Świrk Da Costa ¹ , Paulina Summa ² , Marco Fabbiani ³ , Magnus Rønning ¹ 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) <i>A scalable artificial leaf device with high solar-to-fuel efficiency to formate</i> Daniele Giusi ^{*,1} , Veronica Costantino ¹ , Viviana Amoroso ¹ , Sefora Isabella Perricone ¹ , Siglinda Perathoner ¹ , Gabriele Centi ¹ , Claudio Ampelli ¹ 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) <i>Spectroscopic investigation of In₂O₃-ZrO₂ catalyst for CO₂ hydrogenation to methanol</i> Marco Pietro Mezzapesa ^{*,1} , Fabio Salomone ¹ , Enrico Sartoretti ¹ , Raffale Pirone ¹ , Samir Bensaid ¹ 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 <i>ME-PSD IR spectroscopy to study CO Oxidation reaction under Pt/Al₂O₃ catalyst</i> Nassar N. [*] , Djaafri A., Richard M., Dujardin C., Tougeri 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) <i>Low-Temperature redox kinetics for NH₃-SCR and N₂O formation over Cu-CHA catalysts</i>

		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) <i>Unlocking NOx Reduction Pathways in CO-Assisted NO Reduction over Ultra-Low Metal Content Catalysts Supported on Ceria-Zirconia</i> 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	