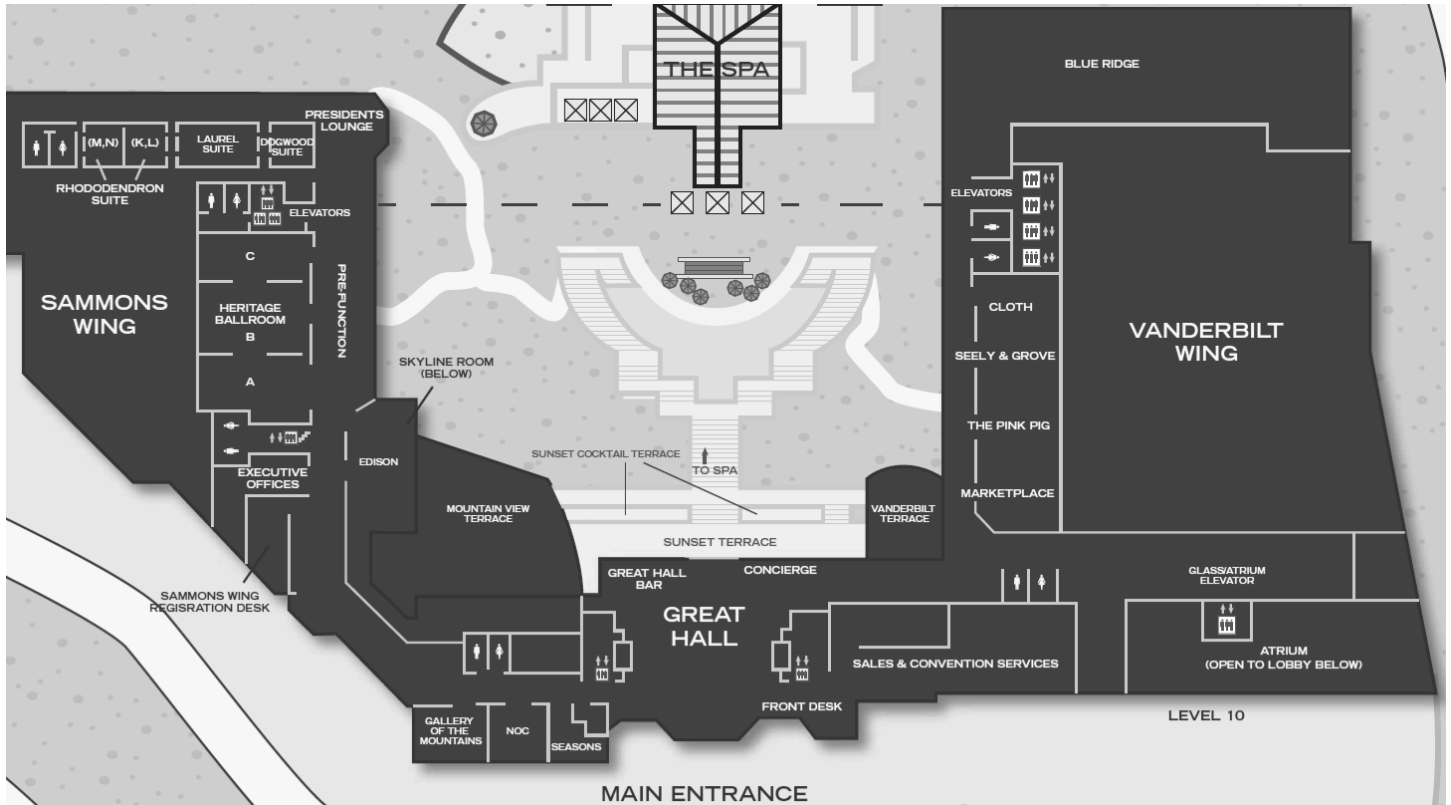


GROVE PARK INN FLOOR PLAN



LOCATIONS of KEY FUNCTIONS:

PLENARY and ORAL PRESENTATIONS

Sammons Wing: Heritage Ballroom; LEVEL 10

ORAL-POSTER PRESENTATIONS

Vanderbilt Wing: Hoover, Eisenhower and Coolidge Rooms; LEVEL 8

POSTER PRESENTATIONS

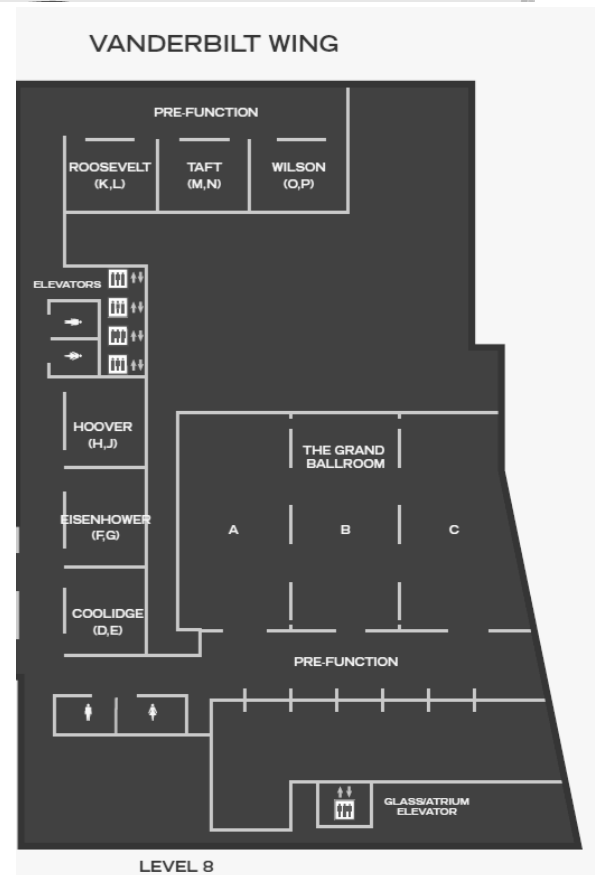
COFFEE/SNACK BREAKS

EXHIBIT HALL

Vanderbilt Wing: Grand Ballroom A and B; LEVEL 8

LUNCH BREAKS

Vanderbilt Wing: Blue Ridge Dining Room; LEVEL 10



SCHEDULE AT A GLANCE

Time	Sunday 8/24	Monday 8/25	Tuesday 8/26	Wednesday 8/27	Thursday 8/28
0700		COFFEE + FOOD	COFFEE + FOOD	COFFEE + FOOD	
0800	Blue Ridge Parkway Tour	Plenary 1	Plenary 2	Plenary 3	Social Activities
0900		COFFEE	COFFEE	COFFEE	
1000		Oral Sessions	Oral Sessions	Oral Sessions	
1100					
1200		LUNCH	LUNCH	LUNCH	
1300	Registration	Oral Sessions	Oral Sessions	Oral Sessions	
1400		COFFEE	COFFEE	COFFEE	
1500		Oral + Oral-Poster	Oral + Oral-Poster	Oral Sessions	
1600		Poster Reception	Poster Reception	Oral Sessions	
1700					
1800	Opening reception	Bus Service to Downtown Asheville	Banquet Dinner	Cultural Night (Bluegrass, Craft Brew, & Barbecue)	
1900					
2000					
2100					
2200					

AGENDA

Paper numbers are of the form X Y, where X is the topic and Y is paper number. **(K)** denotes keynote lecture.

Topics are denoted as follows:

❖ SCE	Sustainable and Clean Energy Production	Organizer: Lars J. PETTERSSON (KTH)
❖ EC	Emission Control	Organizer: Magnus SKOGLUNDH (Chalmers University)
❖ WT	Water Treatment	Organizer: Claude DESCORME (CNRS-IRCELYON)
❖ IAC	Indoor Air Cleaning	Organizer: Galen FISHER (University of Michigan)
❖ GC	Green Chemistry	Organizer: In-Sik NAM (POSTECH)

ORAL PRESENTATIONS


Monday, August 25

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
0700	Coffee + Food (Grand Ballroom A and B)		
0800	Plenary L-1 - Enrique IGLESIA - Oxygen removal and chain growth pathways in the catalytic upgrading of oxygenates (Heritage Ballroom)		
0900	Coffee (Grand Ballroom A and B)		
Session Chairs	Isabella NOVA & Robbie BURCH	In-Sik NAM & John REGALBUTO	Maria FLYTZANI-STEPHANOPOULOS & Yongdan LI
0930	EC-O-01 <u>Josh PIHL</u> - NH ₃ storage isotherms: a path toward better models of NH ₃ storage on zeolite SCR catalysts <i>Co-author:</i> C. Stuart DAW	(K) GC-K-1 <u>John REGALBUTO</u> - Study of ruthenium particle size effect on hydrogenation of levulinic acid (LA) to γ-valerolactone (GVL) <i>Co-author:</i> Shuo CAO	SCE-O-01 <u>Valérie CAPS</u> - Durable PROX catalyst based on gold particles and hydrophobic silica <i>Co-authors:</i> P. LAVEILLE, J.-M. BASSET, K. GUILLOIS, A. TUEL, C. PETIT
0950	EC-O-02 <u>Ty CAUDLE</u> - Mobility of ammonia in zeolites relevant to NO _x emission control catalysts		SCE-O-02 <u>Rory HERRON</u> - A synergistic effect on H ₂ generation from hydrolysis of ammonia borane (AB) over SBA-15 supported Co and Ni nanoparticles <i>Co-authors:</i> Daniel SALLY, Andrew D. PHILLIPS, James A. SULLIVAN
1010	EC-O-03 <u>Wei LI</u> - Roles of Cu species and Brønsted acid sites in NH ₃ -SCR reactions over Cu/SAPO-34 catalysts <i>Co-authors:</i> Lei WANG, Gongshin QI, Steven J. SCHMIEG, Duan WENG	GC-O-01 <u>Frederic MEUNIER</u> - On the irrelevance of acetaldehyde self-aldolization during ethanol condensation at high temperatures over basic heterogeneous catalysts <i>Co-authors:</i> Julien SCALBERT, Frederic THIBAUT-STARZYK	SCE-O-03 <u>Primož JOVANOVIČ</u> - New insight into platinum dissolution from nanoparticulate platinum-based electrocatalysts using highly sensitive in situ concentration measurements <i>Co-authors:</i> A. PAVLIŠIČ, V.S. ŠELIH, M. ŠALA, N. HODNIK, M. BELE, S. HOČEVAR, M. GABERŠČEK


Monday, August 25

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1030	<p style="text-align: center;">K</p> <p>EC-K-1 <u>Enrico TRONCONI</u> - Investigation of the standard SCR reaction mechanism at low T by chemical trapping techniques <i>Co-authors:</i> M.P. RUGGERI, T. SELLERI, I. NOVA</p>	<p>GC-P-17 <u>Shuichi NAITO</u> - Effect of structural change of ordered mesopore and Li cation addition upon selective syngas conversion into C₂ oxygenates over Rh/CeO₂ catalysts <i>Co-authors:</i> Tomotsugu SHINGAKI, Tomoki HAKEDA, Akihiro YOSHIDA (REPLACES GC-O-02)</p>	<p>SCE-O-04 <u>Hidetoshi KIZAKI</u> - OH adsorptions and water dissociation in water-bilayer on Pt(322) stepped surface: Ab-initio simulations <i>Co-authors:</i> Kouji INAGAKI, Ikutaro HAMADA, Yoshitada MORIKAWA</p>
1050		<p>GC-O-03 <u>Justin MOBLEY</u> - Catalytic oxidation of alcohol moieties in lignin and lignin model compounds <i>Co-authors:</i> Mark CROCKER, Tonya MORGAN, Yaying Ji, Tian Li</p>	<p>SCE-O-05 <u>Alina MOSCU</u> - PROX reaction over Pt₃Sn/Al₂O₃: Structural investigation by operando DRIFTS <i>Co-authors:</i> F. MEUNIER, Y. SCHUURMAN, L. VEYRE, C. THIEULEUX</p>
1110	<p>EC-O-04 <u>Peter VENNESTRØM</u> - Comparison of Cu-CHA type catalysts performance in the NH₃-SCR reaction of nitrogen oxides <i>Co-authors:</i> Ton V.W. JANSSENS, Arkady KUSTOV, Avelino CORMA</p>	<p>GC-O-04 <u>Sonia GIL VILLARINO</u> - Preparation of gold containing particles using different suspension agents for the selective oxidation of glycerol <i>Co-authors:</i> Luz SANCHEZ-SILVA, Carmen JIMENEZ, José L. VALVERDE, Anne GIROIR-FENDLER</p>	<p>SCE-O-06 <u>Foteini SAPOUNTZI</u> - Catalytic steam reforming of methane in presence of H₂S on Ni-based SOFC anodes <i>Co-authors:</i> A. BORÉAVE, L. RETAILLEAU, D. NIAKOLAS, C. NEOFYTIDIS, P. VERNOUX</p>
1130	<p>EC-O-05 <u>János SZANYI</u> - Following the movement of Cu ions in a SSZ-13 zeolite during dehydration, reduction and adsorption: a combined in situ TP-XRD, XANES/DRIFTS study <i>Co-authors:</i> Ja Hun KWAK, Tamás VARGA, Charles H.F. PEDEN, Feng GAO, Jonathan C. HANSON</p>	<p>GC-O-05 <u>CANCELLED</u></p>	<p>SCE-O-07 <u>Jan MEISSNER</u> - Catalytic burner with internal steam generation for a fuel cell based Auxiliary Power Unit for middle distillates <i>Co-authors:</i> R.C SAMSUN, J. PASEL, R. PETERS, D. STOLTEN</p>
1150	<p style="text-align: center;">Lunch (Blue Ridge Dining Room)</p>		



Monday, August 25

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
Session Chairs	Peter VENNESTRØM & Magnus SKOGLUNDH	Flora NG	Olaf DEUTSCHMANN & Frederic MEUNIER
1300	EC-O-06 <u>Louise OLSSON</u> - Global kinetic modeling of hydrothermal aging of NH ₃ -SCR over Cu zeolites <i>Co-authors:</i> SUPRIYANTO, Kurnia WIDYANTI, Ashok KUMAR, Saurabh JOSHI, Krishna KAMASAMUDRAM, Neal W. CURRIER, Aleksey YEZERETS	GC-O-06 <u>Elodie BLANCO</u> - Lactic acid and ethyl lactate dehydration over alkaline earth phosphates: origin of the catalytic efficiency <i>Co-authors:</i> P. DELICHERE, C. LORENTZ, L. BUREL, J.M.M. MILLET, S. LORIDANT	 SCE-K-1 <u>Maria FLYTZANI-STEPHANOPOULOS</u> - Alkali-stabilized atomic Au- and Pt-OH _x species supported on L-zeolite and MCM-41 catalyze the low-temperature water-gas shift reaction <i>Co-authors:</i> Ming YANG, Sha LI, Manos MAVRIKAKIS, Lawrence F. ALLARD, Sungsik LEE, Jun Huang
1320	EC-O-07 <u>Feng GAO</u> - Understanding NH ₃ -SCR kinetics over Cu-SSZ-13 catalysts from motion of the Cu ions <i>Co-authors:</i> Márton KOLLÁR, Yilin WANG, Eric D. WALTER, Nancy M. WASHTON, János SZANYI, Charles H.F. PEDEN	GC-O-07 <u>Robbie BURCH</u> - Solvent effects in the hydrogenation of citral: On the role of intrinsic environment of the active site at the molecular level <i>Co-authors:</i> H. MANYAR, H. DALY, R. MORGAN, J.D. HOLBREY, J.M. THOMPSON, T.G.A. YOUNGS, C. HARDACRE	
1340	EC-O-08 <u>Can NIU</u> - NH ₃ -SCR activity and hydrothermal stability of one-step hydrothermally synthesized Cu-SAPO-34 catalysts <i>Co-authors:</i> Fudong LIU, Longfeng ZHU, Lijuan XIE, Fengshou XIAO, Hong HE	GC-O-08 <u>Albin PINTAR</u> - Solid acids for catalytic pyrolysis of waste plastic to produce olefins <i>Co-authors:</i> P. DJINOVIĆ, J. GRDADOLNIK, Š. BOŽIČ, B. ERJAVEC, M. ZABILSKIY	SCE-O-08 <u>James SPIVEY</u> - Dry (CO ₂) reforming of natural gas over pyrochlore catalysts for sustainable and clean energy production <i>Co-authors:</i> Devendra PAKHARE, Daniel HAYNES, Victor ABDELSAYED, Dushyant SHEKHAWAT
1400	EC-O-09 <u>Masaaki IWASAKI</u> - Decisive factor in determining NO selective catalytic reduction with NH ₃ over WO ₃ /CeO ₂ catalysts <i>Co-authors:</i> Kazuhiko DOHMAE, Yasutaka NAGAI, Toshiyuki TANAKA	GC-O-09 <u>Xavier BESSE</u> - Hydrothermal conversion of lignin model compound eugenol <i>Co-authors:</i> N. GUILHAUME, Y. SCHUURMAN	SCE-O-09 <u>Claudia DIEHM</u> - Partial oxidation of methane over staged Pd-Rh catalyst: Temperature and concentration profiles by SpaciPro <i>Co-author:</i> Olaf DEUTSCHMANN
1420	EC-O-10 <u>Maria Pia RUGGERI</u> - DRIFT in-situ study of the NO oxidation and standard SCR reactions on a Cu-CHA commercial catalyst <i>Co-authors:</i> I. NOVA, E. TRONCONI, J.A. PIHL, T.J. TOOPS, W.P. PARTRIDGE	GC-O-10 <u>Flora NG</u> - A new green process for the production of methyl isobutyl ketone (MIBK) via catalytic distillation <i>Co-authors:</i> William K. O'KEEFE, Aashish GAURAV, Garry REMPEL	SCE-O-10 <u>Moa ZIETHÉN GRANLUND</u> - Evaluation of the possibility to decrease the Rh loading of autothermal reforming catalysts for commercial diesel by adding promoters <i>Co-authors:</i> K. JANSSON, M. NILSSON, J. DAWODY, L.J. PETTERSSON
1440	EC-O-11 <u>Brian WEISS</u> - Mechanism and site requirements for NO oxidation catalysis and NO _x adsorption on dispersed metal and oxide substrates <i>Co-authors:</i> Nancy ARTIOLI, Enrique IGLESIA	GC-O-11 <u>Aude-Claire DOISEAU</u> - Xylose dehydration in furfural using a continuous fix-bed reactor: Insights on phosphate addition to niobic acid performances <i>Co-authors:</i> F. RATABOUL, N. ESSAYEM	SCE-O-11 <u>Xenophon VERYKIOS</u> - Structural and mechanistic aspects of low temperature steam reforming of ethanol over supported Pt catalysts <i>Co-authors:</i> Marios KOURTELESIS, Paraskevi PANAGIOTOPOULOU


Monday, August 25

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1500	Coffee (Grand Ballroom A and B)		
Session Chairs	William EPLING & Alexandre GOGUET	John KUHN & Leon LEFFERTS	Robert J. FARRAUTO & Lars J. PETTERSSON
1530	EC-O-12 <u>Will BROOKSHEAR</u> - NO _x performance of Cu-chabazite SCR catalysts under severe sulfur poisoning from marine diesel engine's fuels <i>Co-authors:</i> Jeong-gil NAM, Ke NGUYEN, Todd J. TOOPS	<div style="text-align: center;">  </div> WT-K-1 <u>Claude DESCORME</u> (for Michèle BESSON) - Chemical stability of heterogeneous catalysts in the Catalytic Wet Air Oxidation of nitrogen-containing pollutants in water	SCE-O-12 <u>Ahmed IBRAHIM</u> - Study of synthesis gas production via CO ₂ reforming of CH ₄ over supported cobalt catalysts <i>Co-authors:</i> A.H. FAKEEHA, A.E. ABASEED, M.A. NAEEM, A.S. AL-FATESH
1550	EC-O-13 <u>Nicola USBERTI</u> - Kinetics of NH ₃ -oxidation and NH ₃ -SCR over V-based catalysts <i>Co-authors:</i> A. BERETTA, L. LIETTI, P. FORZATTI, M. DI BLASI, A. MORANDI		SCE-O-13 <u>Daniel HAYNES</u> - Pyrochlore-based fuel reforming catalyst <i>Co-authors:</i> Dushyant SHEKHAWAT, David A. BERRY, Mark W. SMITH, James J. SPIVEY
1610	EC-O-14 <u>David BERTHOUT</u> - Hydrothermal aging effects on Cu-zeolite NH ₃ -SCR catalyst <i>Co-authors:</i> M. VALDEZ LANCINHA PEREIRA, A. NICOLLE	WT-O-01 <u>Gwendoline LAFAYE</u> - Catalytic Wet Air Oxidation of phenol over metal catalyst (Ru, Pt) supported on TiO ₂ -CeO ₂ oxides <i>Co-authors:</i> A. ESPINOSA DE LOS MONTEROS, J. BARBIER Jr., G. DEL ANGEL, G. TORRES	SCE-O-14 <u>Jagoda KUC</u> - Methanol steam reforming on Pd and Zn substituted LaCoO ₃ <i>Co-authors:</i> M. NEUMANN, M. ARMBRÜSTER, S. YOON, A. WEIDENKAFF, Santhosh Kumar MATAM
1630	EC-O-15 <u>Changjin TANG</u> - Remarkable enhancement of SO ₂ resistance for NO reduction with NH ₃ over a novel TiO ₂ /CeO ₂ catalyst <i>Co-authors:</i> L. ZHANG, Y. DENG, F. GAO, L. DONG	WT-O-02 <u>Claude DESCORME</u> - Key parameters controlling the selectivity toward dinitrogen upon Catalytic Wet Air Oxidation of ammonia in water <i>Co-authors:</i> C. LOUSTEAU, M. BESSON	SCE-O-15 <u>Stephen CROWLEY</u> - Morphology dynamics of precious metal catalysts for use in steam reformation of oxygenated fuels <i>Co-author:</i> Marco J. CASTALDI
1650	EC-O-16 <u>François GIRAUD</u> - Experimental microkinetic approach of NH ₃ -SCR process: Determination of individual heat of adsorption of NH ₃ adsorbed species on TiO ₂ <i>Co-authors:</i> Christophe GEANTET, Nolven GUILHAUME, Sébastien GROS, Lynda PORCHERON, Mohamed KANNICHE, Daniel BIANCHI	WT-O-03 <u>Renata KAPLAN</u> - Nanocrystalline TiO ₂ polymorphs as catalysts for removal of EDCs using advanced oxidation processes <i>Co-authors:</i> Boštjan ERJAVEC, Albin PINTAR	SCE-O-16 <u>Jehad ABU-DAHRIEH</u> - Novel acid catalyst for the dehydration of methanol to dimethyl ether <i>Co-authors:</i> Ahmed I. OSMAN, David ROONEY
1710-1910	POSTER RECEPTION (Grand Ballroom A and B)		
1900-2330	BUS SERVICE to and from DOWNTOWN (Buses departing from Vanderbilt Wing Atrium, 7th level)		

Tuesday, August 26

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
0700	Coffee + Food (Grand Ballroom A and B)		
0800	Plenary L-2 - Masakazu ANPO - Challenges in the utilization of unlimited sunlight energy to sustain our safe and better environment – Investigations of highly active Ti-oxide based photo-functional materials from molecular level to bulk semiconductor thin films (Heritage Ballroom)		
0900	Coffee (Grand Ballroom A and B)		
Session Chairs	Enrico TRONCONI & Robert FARRAUTO	Yongbing XIE & Claude DESCORME	Dong LIN & Kulathu SESHAN
0930	 EC-K-2 <u>Wolfgang GRÜNERT</u> - NO oxidation and reduction over Fe zeolites: Elucidating active sites and reaction mechanisms by operando spectroscopy and reactivity studies <i>Co-authors:</i> Inga ELLMERS, Roxana PÉREZ VÉLEZ, Heming HUANG, Ursula BENTRUP, Volker SCHÜNEMANN, Angelika BRÜCKNER	WT-O-04 <u>Luis Alejandro GALEANO</u> - Optimization of methyl orange's Catalytic Wet Peroxide Oxidation (CWPO) by the response surface methodology <i>Co-authors:</i> Viviana N. AGUILAR, Miguel A. VICENTE, Antonio GIL	SCE-O-17 <u>Zili WU</u> - Thiolate ligands effect on CO oxidation over CeO ₂ -supported Au ₂₅ (SR) ₁₈ nanoclusters <i>Co-authors:</i> De-en JIANG, Amanda MANN, David R. MULLINS, Zhenan QIAO, Lawrence F. ALLARD Jr., Steven H. OVERBURY
0950		WT-O-05 <u>Hongqi SUN</u> - Photochemical oxidation of phenol solutions using Co ₃ O ₄ nanorods <i>Co-authors:</i> Yuxian WANG, Wanqin JIN, Shaobin WANG	SCE-O-18 <u>Evalyn Mae ALAYON</u> - Reaction conditions determine the structure of active Cu sites <i>Co-authors:</i> Maarten NACHTEGAAL, Andras BODI, Jeroen A. VAN BOKHOVEN
1010	EC-O-17 <u>Maria CASAPU</u> - Operando spatially- and time-resolved XAS and valence-to-core XES to study the mechanism of the NH ₃ -SCR over Fe- and Cu-zeolites <i>Co-authors:</i> Dmitry E. DORONKIN, Tobias GÜNTHER, Alexey BOUBOV, Hudson W.P. CARVALHO, Jan-Dierk GRUNWALDT	WT-O-06 <u>Fei TIAN</u> - Photocatalytic performance of carbon modified BiVO ₄ for degradation of phenol under visible light <i>Co-authors:</i> Minli NIU, Rongshu ZHU, Kelin SONG	SCE-O-19 <u>Alessandro DONAZZI</u> - Kinetic analysis and Raman surface characterization in the CPO of propane, propylene and <i>n</i> -C ₈ H ₁₈ <i>Co-authors:</i> D. PAGANI, A. LUCOTTI, M. TOMMASINI, A. BERETTA, G. GROPPI, C. CASTIGLIONI
1030	EC-O-18 <u>Magnus SKOGLUNDH</u> - Fundamental deactivation and regeneration mechanisms of Fe-BEA as catalyst for selective reduction of nitrogen oxides in oxygen excess <i>Co-authors:</i> Soran SHWAN, Louise OLSSON, Jonas JANSSON	WT-O-07 <u>John KUHN</u> - Photocatalytic degradation of persistent organic contaminants by immobilized doped and undoped titania <i>Co-authors:</i> Sandra L. PETTIT, Laura RODRIGUEZ-GONZALEZ, Jim T. MICHAELS, Norma A. ALCANTAR, Sarina J. ERGAS	 SCE-K-2 <u>Edward RIGHTOR</u> - Global energy & emissions reduction potential of chemical process improvements and partial oxidation hurdles <i>Co-author:</i> Cathy L. TWAY
1050	EC-O-19 <u>Márton KOLLÁR</u> - NH ₃ -SCR on fresh and hydrothermally aged Fe/SSZ-13 catalysts <i>Co-authors:</i> Feng GAO, Yilin WANG, Ravi K. KUKKADAPU, János SZANYI, Charles H.F. PEDEN	WT-O-08 <u>Leon LEFFERTS</u> - Unsupported PVA and PVP stabilized Pd nanoparticles as catalyst for nitrite hydrogenation <i>Co-authors:</i> Yingnan ZHAO, José A. BAEZA, Koteswara R. NIDADAVOLU	

Tuesday, August 26



Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1110	EC-O-20 <u>Isabella NOVA</u> - A fundamental study of the enhanced SCR reaction over a Fe-zeolite catalyst for mobile applications <i>Co-authors:</i> F. MARCHITTI, E. TRONCONI	WT-O-09 <u>Jean-Philippe DACQUIN</u> - Nitrite reduction over platinum nanoparticles supported on tunable macroporous-mesoporous supports <i>Co-authors:</i> A. ZAKI, S. CASALE, G. STOCLET, C. LANCELOT, P. GRANGER	SCE-O-20 <u>Peter MIEDZIAK</u> - Applying tri-metallic catalysts to improve oxidation reactions <i>Co-authors:</i> Qian HE, Nikolaos DIMITRATOS, Jennifer K. EDWARDS, Stuart H. TAYLOR, Christopher J. KIELY, Graham J. HUTCHINGS
1130	EC-O-21 <u>Ashok KUMAR</u> - Chemical deSO _x : A low temperature desulfation method for zeolite-based SCR catalysts <i>Co-authors:</i> Michael A. SMITH, Krishna KAMASAMUDRAM, Neal W. CURRIER, Aleksey YEZERETS	WT-O-10 <u>CANCELLED</u>	SCE-O-21 <u>Zheng REN</u> - Monolithically integrated metal oxide nano-arrays as cost-effective and high performance oxidation catalyst <i>Co-authors:</i> Yanbing GUO, Sibow WANG, Pu-Xian GAO
1150	Lunch (Blue Ridge Dining Room)		
Session Chairs	Galen FISHER & Christine LAMBERT	Suk Bong HONG & Chuan SHI	Xenophon VERYKIOS & Lars J. PETTERSSON
1300	EC-O-22 <u>Hanna HÄRELIND</u> - Silver-alumina catalysts for lean NO _x reduction <i>Co-authors:</i> Fredrik GUNNARSSON, Marika MÄNNIKKÖ, Hannes KANNISTO, Magnus SKOGLUNDH	GC-O-12 <u>Chenghao DENG</u> - Towards efficient Ir-Re/KIT-6 catalysts for glycerol hydrogenolysis to 1,3-propanediol by controlling the thermal pretreatment <i>Co-authors:</i> X.Z. DUAN, J.H. ZHOU, X.G. ZHOU, W.K. YUAN, S.L. SCOTT	 EC-K-2 <u>Henrik GRÖNBECK</u> - Palladium-oxide sites for facile methane dissociation <i>Co-authors:</i> A. TRINCHERO, M. VAN DEN BOSSCHE, P.A. CARLSSON, A. HELLMAN, N.M. MARTIN, J. GUSTAFSON, E. LUNDGREN
1320	EC-O-23 <u>Gustavo A. FUENTES</u> - Structural changes of Ag/γ-Al ₂ O ₃ during H ₂ -assisted C ₃ H ₈ -SCR of NO _x <i>Co-authors:</i> M.E. HERNÁNDEZ-TERÁN, S.A. GÓMEZ	GC-O-13 <u>Raul C. RIVAS</u> - Kinetics of the self-buffering enzymatic hydrolysis of pectin in a batch reactor <i>Co-authors:</i> Patrick MILLS, Heman P. ASHER	
1340	EC-O-24 <u>Robbie BURCH</u> - Investigating the promotional effect of methanol on the low temperature HC-SCR reaction on a Ag/Al ₂ O ₃ catalyst <i>Co-authors:</i> Sarayute CHANSAI, Christopher HARDACRE, Daniel NORTON, Xiaoying BAO, Larry LEWIS	GC-O-14 <u>Wen-Juan ZHOU</u> - Highly selective liquid-phase oxidation of cyclohexane to KA oil over Ti-MWW catalyst: evidence of formation of oxyl radicals <i>Co-authors:</i> Raphael WISCHERT, Kai XUE, Yu-Ting ZHENG, Belén ALBELA, Laurent BONNEVIOT, Jean-Marc CLACENS, Floryan DECAMPO, Marc PERA-TITUS, Peng WU	EC-O-26 <u>Andreas GREMMINGER</u> - Activity and aging of a Pd/Pt-Al ₂ O ₃ -catalyst for methane oxidation <i>Co-authors:</i> Radian POPESCU, Hudson CARVALHO, Jan-Dierk GRUNWALDT, Olaf DEUTSCHMANN

Tuesday, August 26


Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1400	EC-O-25 <u>In-Sik NAM</u> - Effect of AlF_3 on the NO_x reduction over $\text{Ag}/\text{Al}_2\text{O}_3$ for HC-SCR <i>Co-authors:</i> P.S. KIM, B.K. CHO, J.W. CHOUNG	GC-O-15 <u>Xiang FENG</u> - Towards highly stable and active Au/uncalcined TS-1 catalysts for direct propylene epoxidation with molecular H_2 and O_2 : Effect of Si/Ti molar ratio <i>Co-authors:</i> Xuezhi DUAN, Gang QIAN, Xinggui ZHOU, De CHEN, Weikang YUAN	EC-O-27 <u>Anne GIROIR-FENDLER</u> - Catalytic oxidation of propene over Pd catalysts supported on CeO_2 , TiO_2 , Al_2O_3 and $\text{M}/\text{Al}_2\text{O}_3$ oxides (M=Ce, Ti, Fe, Mn) <i>Co-authors:</i> S. GIL, L.F. LIOTTA, G. PANTALEO, M. OUSMANE, L. RETAILLEAU
1420	Coffee (Grand Ballroom A and B)		
Session Chairs	Louise OLSSON & Wolfgang GRÜNERT	Klaus OPWIS & Junjiang ZHU	Olaf DEUTSCHMANN & Henrik GRÖNBECK
1450	EC-O-28 <u>Joseph THEIS</u> - Assessment of passive NO_x adsorbers for diesel applications <i>Co-author:</i> Christine LAMBERT	GC-O-16 <u>Marc PERA-TITUS</u> - Tunable catalysts for solvent-free biphasic systems - Pickering Interfacial Catalysts over amphiphilic silica nanoparticles <i>Co-authors:</i> W.-J. ZHOU, L. FANG, Z. FAN, B. ALBELA, L. BONNEVIOT, F. DE CAMPO, J.M. CLACENS	EC-O-33 <u>Andreas GÄNZLER</u> - Chasing active sites: In operando investigations on a $\text{Pt}/\text{Al}_2\text{O}_3$ catalyst during isothermal CO oscillations <i>Co-authors:</i> Alexey BOUBNOV, Henning LICHTENBERG, Oliver MÜLLER, Maria CASAPU, Jan-Dierk GRUNWALDT
1510	EC-O-29 <u>Shouxian REN</u> - Low temperature NO_x storage using $\text{Ag}_2\text{O}/\text{Al}_2\text{O}_3$ catalysts <i>Co-authors:</i> Steven J. SCHMIEG, Calvin K. KOCH, Gongshin QI, Wei LI	GC-O-17 <u>Junjiang ZHU</u> - Ce doped LaCoO_3 perovskite for liquid-phase selective oxidation of benzyl alcohol using molecular oxygen as oxidant <i>Co-authors:</i> Linyun ZHONG, Ping XIAO	EC-O-34 <u>Junhua LI</u> - Catalytic oxidation of formaldehyde on nano- Co_3O_4 , 2D- Co_3O_4 , and 3D- Co_3O_4 catalysts <i>Co-author:</i> Bingyang BAI
1530	EC-O-30 <u>Chuan SHI</u> - Non-thermal plasma-assisted low temperature NSR process on a $\text{LaMn}_{0.9}\text{Fe}_{0.1}\text{O}_3$ perovskite catalyst <i>Co-authors:</i> Zhao-shun ZHANG, Li XU	GC-O-18 <u>Victoria CUSTODIS</u> - Catalytic fast pyrolysis of lignin - Tuning selectivity <i>Co-authors:</i> Zhiqiang MA, Jeroen A. VAN BOKHOVEN	EC-O-35 <u>Alexandre GOGUET</u> - An in situ spatially resolved method to probe gas phase reactions and temperature through a fixed bed <i>Co-authors:</i> Jamal TOUITOU, Farid AIOUACHE, Robbie BURCH, Roy DOUGLAS, Christopher HARDACRE, Colin MCMANUS, Kevin MORGAN, Jacinto SÁ, Caomhán STEWART, Jonathan STEWART
1550	EC-O-31 <u>Christine LAMBERT</u> - Nitrous oxide emissions from a medium-duty diesel truck exhaust system <i>Co-authors:</i> Douglas DOBSON, Christine GIERCZAK, Gang GUO, Justin URA, James WARNER	GC-O-19 <u>Petar DJINOVIĆ</u> - Supported Ni-Co bimetallic catalysts for syngas production from model biogas streams with varying CH_4/CO_2 ratio <i>Co-authors:</i> I.G. OSOJNIK ČRNIVEC, B. ERJAVEC, A. PINTAR	EC-O-36 <u>Zhen ZHAO</u> - CO oxidation mechanism on Pd-doped CeO_2 catalysts: A DFT+U study <i>Co-authors:</i> Bing LIU, Jian LIU, Xue-Qing GONG, Aijun DUAN, Guiyuan JIANG

1610	EC-O-32 <u>Stanislaw DZWIGAJ</u> - Effect of Co content on the catalytic activity of CoSiBEA zeolites in the N ₂ O decomposition <i>Co-authors:</i> P. BORONÍ, L. CHMIELARZ, S. CASALE, J.-M. KRAFFT, C. CALERS	GC-O-20 <u>Klaus OPWIS</u> - Textile- fixed catalysts - a new tool for heterogeneous catalysis <i>Co-authors:</i> Thomas MAYER-GALL, Jochen S. GUTMANN	EC-O-37 <u>Do Heui KIM</u> - Role of ZrO ₂ in SO ₂ -poisoned Pd/(Ce-Zr)O ₂ catalyst for CO oxidation <i>Co-authors:</i> YoungSeok RYOU, Hyokyoung LEE, Jin Woo CHOUNG, Seungbeom YOO
1630- 1830	POSTER RECEPTION (Grand Ballroom A and B)		
1900- 2200	BANQUET DINNER (Heritage Ballroom)		

Wednesday, August 27

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
0700	Coffee + Food (Grand Ballroom A and B)		
0800	Plenary L-3 - Klaus HARTH - Innovative catalytic solutions for future automotive emission control (Heritage Ballroom)		
0900	Coffee (Grand Ballroom A and B)		
Session Chairs	Ashok KUMAR & Alessandro TROVARELLI	Hideyuki OKUMURA & Chloe THIEULEUX	Johannes SCHWANK & Hiromi YAMASHITA
0930	EC-O-38 <u>Philippe VERNOUX</u> - Silver-modified perovskites as soot oxidation catalysts <i>Co-authors:</i> W.Y. HERNÁNDEZ, M. TSAMPAS, C. ZHAO, A. BORÉAVE	 GC-K-2 <u>Hideyuki OKUMURA</u> and <u>Susumu ENDO</u> - Magnetic field effect on heterogeneous photocatalysis <i>Co-authors:</i> S. JOONWICHEN, E. YAMASUE, K.N. ISHIHARA	SCE-O-22 <u>Adi SETIAWAN</u> - Hydrothermal stability evaluation of cobalt and iron oxides catalysts during total oxidation of lean methane mixtures <i>Co-authors:</i> Eric KENNEDY, Bogdan DLUGOGORSKI, Michael STOCKENHUBER
0950	EC-O-39 <u>Michail TSAMPAS</u> - Synergy of Ag and yttria-stabilized zirconia catalysts during diesel soot oxidation <i>Co-authors:</i> C. ZHAO, A. SERVE, A. BORÉAVE, H. DOLE, E. BARANOVA, P. VERNOUX		SCE-O-23 <u>Yongdan LI</u> - Improved catalyst designs for photocatalytic water splitting <i>Co-authors:</i> Yang LI, Zhengmin YU, Jianling MENG
1010	EC-O-40 <u>Yuechang WEI</u> - High efficient catalysts of ordered macroporous Ce _{1-x} Zr _x O ₂ -supported Pt@CeO _{2-x} core-shell nanoparticles for soot oxidation <i>Co-authors:</i> Zhen ZHAO, Jian LIU, Guiyuan JIANG, Aijun DUAN	GC-O-21 <u>Hongqi SUN</u> - Metal-free photocatalyst for degradation of organic pollutants in water <i>Co-authors:</i> Shaobin WANG, Xiang QIU, Ha Ming ANG, Moses O. TADÉ	SCE-O-24 <u>Jinzu MA</u> - Photocatalytic removal of NO _x over visible-light-responsive oxygen-deficient TiO ₂ <i>Co-authors:</i> Hongmin WU, Yongchun LIU, Hong HE
1030	EC-O-41 <u>Thierry EPICIER</u> - Investigations of soot combustion on Yttria-Stabilized Zirconia by Environmental Transmission Electron Microscopy (ETEM) <i>Co-authors:</i> M. AOUINE, T. EPICIER, E. OBEID, M. TSAMPAS, A. SERVE, K. PAJOT, P. VERNOUX	GC-O-22 <u>Chuan SHI</u> - Ni-modified β-Mo ₂ C catalysts effective for the dry reforming of methane at atmospheric pressure <i>Co-authors:</i> Shaohua ZHANG, Anjie ZHANG, Yali ZHANG, Chaktong AU	 SCE-K-3 <u>Hiromi YAMASHITA</u> - Design of plasmonic nanocatalysts for highly efficient H ₂ production from ammonia borane under visible light irradiation <i>Co-authors:</i> Hefeng CHENG, Kojiro FUKU, Yasutaka KUWAHARA, Takashi KAMEGAWA, Kohsuke MORI
1050	EC-O-42 <u>Sven KURETI</u> - Structure-activity relation of iron oxide catalysts in soot oxidation <i>Co-author:</i> Steffen WAGLOEHNER	GC-O-23 <u>Chloe THIEULEUX</u> - Synthesis of single-site Ru-NHC based heterogeneous catalysts: application to bio-resources transformation and CO ₂ valorisation <i>Co-authors:</i> M. BAFFERT, I. KARAME, T. MAISHAL, C. COPÉRET, L. VEYRE	

Wednesday, August 27

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1110	EC-O-43 <u>Enrico JAPKE</u> - Soot and hydrocarbon oxidation over vanadia-based SCR catalysts <i>Co-authors:</i> Maria CASAPU, Vanessa TROUILLET, Olaf DEUTSCHMANN, Jan-Dierk GRUNWALDT	GC-O-24 <u>Stefan AHLERS</u> - Propanol synthesis from CO ₂ , C ₂ H ₄ and H ₂ over Au-containing catalysts: Effect of support and K doping on activity and selectivity <i>Co-authors:</i> David LINKE, Evgenii V. KONDRATENKO	SCE-O-25 <u>Isabella NOVA</u> - Hierarchically organized nanostructured TiO ₂ for photoelectrochemical water splitting applications <i>Co-authors:</i> R. MATARRESE, A. LI BASSI, C.S. CASARI, V. RUSSO, S. PALMAS, M. MASCIA
1130	EC-O-44 <u>Yuejin LI</u> - Catalyzed soot filters for diesel vehicle emission control	GC-O-25 <u>John KUHN</u> - Intensified carbon dioxide conversion by reverse water gas shift chemical looping via perovskite-type oxides <i>Co-authors:</i> Yolanda A. DAZA, Ryan A. KENT, Matthew M. YUNG	SCE-O-26 <u>Fei GAO</u> - Crystal-plane effects on the catalytic properties of TiO ₂ -based nanocrystals <i>Co-authors:</i> Lichen LIU, Lin DONG
1150	Lunch (Blue Ridge Dining Room)		
Session Chairs	Robert MCCABE & Joseph THEIS	Galen FISHER & Junhua LI	Mark CROCKER & Jae-Soon CHOI
1300	EC-O-45 <u>Alessandro TROVARELLI</u> - Development of silver-based catalytic materials for simultaneous removal of soot and NO _x <i>Co-authors:</i> E. ANEGGI, L. CASTOLDI, R. MATARRESE, A. TROVARELLI, L. LIETTI	 IAC-K-1 <u>Jeffrey WEISSMAN</u> - High performance regenerable and photocatalytic reactors for trace contaminant control and chemical synthesis <i>Co-author:</i> Codruta LOEBICK	SCE-O-27 <u>Viviane SCHWARTZ</u> - Novel class of molybdenum carbide catalysts for bio-oil upgrading <i>Co-authors:</i> I. ILGAZ-SOYKAL, Beth L. ARMSTRONG, Raynella M. CONNATSER, Samuel A. LEWIS Sr., Jae-Soon CHOI
1320	EC-O-46 <u>Fabio MARCHITTI</u> - Simultaneous soot and NO _x removal: Experimental investigation over a Cu-Zeolite SCR catalyst <i>Co-authors:</i> L. NOVA, E. TRONCONI		SCE-O-28 <u>Cun WEN</u> - Probing structure and selectivity relationships for one-step biofuel production on bi-functional catalyst <i>Co-authors:</i> Jason HATTRICK-SIMPERS, Jochen LAUTERBACH
1340	EC-P-97 <u>Cyril THOMAS</u> - On the origin of the optimum loading of Ag on Al ₂ O ₃ in the C ₃ H ₆ -SCR of NO _x <i>Co-authors:</i> T. CHAIEB, L. DELANNOY, C. LOUIS (REPLACES EC-O-47)	IAC-O-01 <u>CANCELLED</u>	SCE-O-29 <u>Pawnprapa PITAKJAKPIPOP</u> - Hydrodeoxygenation of bio-oil over metal phosphide catalysts using guaiacol as a model compound <i>Co-author:</i> Chunshan SONG

Wednesday, August 27

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1400	EC-O-48 <u>Mariam SALAZAR</u> - An innovative route to enhance low-temperature catalyst performance in the selective catalytic reduction (SCR) of NO by NH ₃ <i>Co-authors:</i> R. BECKER, W. GRÜNERT	IAC-O-02 <u>Taicheng AN</u> - Photothermocatalytic synergetic degradation of styrene on nanoperoxovskite LaBO ₃ compounds (B=Cr, Mn, Fe, Co, Ni) <i>Co-authors:</i> Zhigui HE, Jiangyao CHEN, Guiying LI	SCE-O-30 <u>Naomi KLINGHOFFER</u> - Catalytic applications of char from gasification: influence of composition and morphology on catalytic activity <i>Co-authors:</i> Marco J. CASTALDI, Ange NZIHOU
1420	EC-O-49 <u>Vitaly PRIKHODKO</u> - Selective catalytic reduction of oxides of nitrogen with ethanol/gasoline blends over a silver/alumina catalyst on a lean gasoline engine <i>Co-authors:</i> Josh A. PIHL, Todd J. TOOPS, John F. THOMAS, James E. PARKS, Brian H. WEST	IAC-O-03 <u>Víctor Gabriel BALDOVINO MEDRANO</u> - From academia to industry: shaping of g-MnO ₂ catalysts for the abatement of pollutant indoor air VOCs <i>Co-author:</i> Eric M. GAIGNEAUX	SCE-O-31 <u>Craig BARNES</u> - Novel heterogeneous catalysts for the selective oxidation of phenolic lignin degradation products into benzoquinones <i>Co-authors:</i> Daniel L. TAYLOR, Lena ELENCHIN
1440	EC-O-50 <u>Gongshin QI</u> - Insights on the active phase and mechanism for NO oxidation on MnO _x -CeO ₂ mixed oxide <i>Co-authors:</i> Ayman M. KARIM, Donghai MEI, János SZANYI, JaHun KWAK, Wei LI, Diana TRAN, Larry PEDERSON	IAC-O-04 <u>Richard LONG</u> - Superior composite oxide catalysts for combustion of volatile organic compounds <i>Co-authors:</i> Minghui QIU, Sergio A. IBANEZ, Matthew M. SEABAUGH	SCE-O-32 <u>Yusuf ADEWUYI</u> - Esterification of Free Fatty Acids (FFA) in used oil using a lab-synthesized mesoporous nanocrystalline sulfated zirconia <i>Co-author:</i> V. DESHMANE
1500	Coffee (Grand Ballroom A and B)		
Session Chairs	Wei LI & Josh PIHL	Jeff WEISSMAN & Víctor Gabriel BALDOVINO MEDRANO	Gustavo FUENTES & Yusuf G. ADEWUYI
1530	EC-O-51 <u>Anton NAGY</u> - The implementation of high-throughput screening reactors for kinetic testing of deNO _x monolith catalysts <i>Co-authors:</i> Quoc Cuong LE, Jochen SCHÄFFNER	IAC-O-05 <u>Helena KAPER</u> - In-situ XAS studies of Pt/CeO ₂ catalysts for indoor air quality <i>Co-authors:</i> S. GATLA, D. AUBERT, S. PASCARELLI, O. MATHON, T. LUNKENBEIN, M. WILLINGER	SCE-O-33 <u>Eduardo SANTILLAN-JIMENEZ</u> - Continuous deoxygenation of algal lipids to fuel-like hydrocarbons over inexpensive Ni-based catalysts <i>Co-authors:</i> Tonya MORGAN, Ryan LOE, Mark CROCKER
1550	EC-O-52 <u>Petr KOČÍ</u> - N ₂ O and N ₂ formation dynamics during and after the regeneration of Lean NO _x Trap <i>Co-authors:</i> David MRÁČEK, Miloš MAREK, Jae-Soon CHOI, Josh A. PIHL, Todd J. TOOPS, William P. PARTRIDGE	IAC-O-06 <u>Junhua LI</u> - Complete oxidation of formaldehyde on Ag/CeO ₂ nanosphere catalysts <i>Co-authors:</i> Lei MA, Dingsheng WANG, Yadong LI	SCE-O-34 <u>Rodrigo SUÁREZ PARÍS</u> - Synthesis of mixed alcohols over Ni-modified alkali-doped molybdenum sulfide catalysts prepared by conventional coprecipitation and by microemulsion <i>Co-authors:</i> Magali BOUTONNET, Sven JÄRÅS

Wednesday, August 27

Time	Heritage Ballroom A	Heritage Ballroom B	Heritage Ballroom C
1610	<p>EC-O-53 <u>Robert MCCABE</u> - Structure-activity relationships in perovskite-based materials for possible TWC applications <i>Co-authors:</i> Sotirios A. MALAMIS, Rachael J. HARRINGTON, Yisun CHENG, Hung-Wen JEN, Lifeng XU, Michael B. KATZ, Shuyi ZHANG, George W. GRAHAM, Xiaoqing PAN</p>	<p>IAC-O-07 <u>Tomos CLARKE</u> - Total oxidation of naphthalene using an amorphous copper manganese oxide catalyst <i>Co-authors:</i> Simon KONDRAT, Thomas DAVIES, Stuart H. TAYLOR</p>	<p>SCE-O-35 <u>Kulathu Iyer SESHAN</u> - Valorization of humin by-products formed during biomass processing via gasification / synthesis gas route <i>Co-authors:</i> T.M.C. HOANG, L. LEFFERTS</p>
1630	<p>EC-O-54 <u>Christophe DUJARDIN</u> - Enhancement of catalytic activity of perovskite-based catalysts in TWC by Cu and Ca doping and optimisation of the surface composition <i>Co-authors:</i> Anke SCHOEN, Jean-Philippe DACQUIN, Pascal GRANGER</p>	<p>IAC-O-08 <u>Chuan SHI</u> - Three-dimensional ordered mesoporous Co-Mn oxide: A highly active catalyst for "storage-oxidation" cycling for the removal of HCHO <i>Co-authors:</i> Yu WANG, Bingbing CHEN</p>	<p>SCE-O-36 <u>Gaël PENG</u> - Ru/C as a catalyst for supercritical water gasification of isopropanol for methane production <i>Co-authors:</i> F. VOGEL, C. LUDWIG</p>
1650	<p>EC-O-55 <u>Satoshi HINOKUMA</u> - Synergistic effect of non-precious bimetal catalyst prepared by dual-mode arc-plasma process <i>Co-authors:</i> N. YAMASHITA, H. KOGAMI, Y. KATSUHARA, M. MACHIDA</p>	<p>IAC-O-09 <u>Haibao HUANG</u> - Catalytic ozonation of gaseous benzene over MnOx/ZSM-5 at ambient temperature: prevention of catalyst deactivation and byproducts emission <i>Co-authors:</i> Xinguo YE, Wenjun HUANG, Peng HU, Huiling HUANG, Dennis Y.C. LEUNG</p>	<p>SCE-O-37 <u>Bertrand GUICHARD</u> - Effect of acidity, hydrogenating phases of catalysts in the molecular structure evolution of asphaltenes during hydroconversion <i>Co-authors:</i> G. MAGENDIE, D. ESPINAT</p>
1710	<p>EC-O-56 <u>Michael NASH</u> - Advanced mercury oxidation under simulated power plant conditions <i>Co-authors:</i> Silvia ALCOVE, Paul ANDERSEN, David REPP, Maria BRANDMAIR</p>	<p>IAC-O-10 <u>Jose Antonio DIAZ LOPEZ</u> - One pot synthesis of supported perovskites to induce synergy effects in catalytic VOCs combustion <i>Co-authors:</i> Sonia GIL, Mélissandre RICHARD, Fabien CAN, Nicolas BION, Laurence RETAILLEAU, Anne GIROIR-FENDLER</p>	<p>SCE-O-38 <u>Sukanya THEPWATEE</u> - One-pot photo-oxidative adsorption desulfurization of dibenzothiophene in diesel fuel over TiO₂-ZrO₂ <i>Co-author:</i> Chunshan SONG</p>
1800-2130	<p style="text-align: center;">CULTURAL NIGHT (Bluegrass, Craft Beer and Barbecue) at Highland Brewery (Buses departing from Vanderbilt Wing Atrium, 7th level)</p>		

ORAL-POSTER PRESENTATIONS

Monday, August 25

Time	Session A (Hoover)	Session B (Eisenhower)	Session C (Coolidge)
Session Chairs	Hanna HÄRELIND	Matthew CAUDLE	Nitin KUMAR
1530	<p>EC-P-28 <u>Lucjan CHMIELARZ</u> - Selective catalytic oxidation of ammonia to nitrogen over bi-functional hydrotalcite originated mixed metal oxides doped with noble metals <i>Co-authors:</i> Magdalena JABŁOŃSKA, Agnieszka WĘGRZYN, Zofia PIWOWARSKA</p>	<p>EC-P-38 <u>Stanislaw DZWIGAJ</u> - BEA zeolite modified with vanadium as effective catalyst for selective reduction of NO with ammonia <i>Co-authors:</i> Rafal BARAN, Thomas ONFROY, Yannick MILLOT, Teresa GRZYBEK</p>	<p>GC-P-11 <u>Redouane BACHIR</u> - Allylic oxidation of cyclohexene by O₂ over nano TiO₂-Fe₂O₃ oxides <i>Co-authors:</i> N. AMEUR, S. BEDRANE, A. CHOUKCHOU-BRAHAM</p>
1540	<p>EC-P-29 <u>Akira HASEGAWA</u> - Preparation of heat-resistant alumina using a coprecipitation method <i>Co-authors:</i> Nobue NEJO, Marina KOBUNE, Osamu OKADA</p>	<p>EC-P-39 <u>René BINDIG</u> - Challenges and recent developments for emission control on stationary biomass combustion devices for energy production <i>Co-authors:</i> Saad BUTT, Daniel DVORACEK, Dirk ENKE, Ingo HARTMANN</p>	<p>GC-P-12 <u>Radosław DĘBEK</u> - Low temperature dry reforming of methane over hydrotalcite derived Ni/Mg/Al and Cu/Mg/Al mixed oxides <i>Co-authors:</i> Katarzyna ZUBEK, Małgorzata ADAMOWSKA, Monika MOTAK, Patrick DA COSTA, Teresa GRZYBEK</p>
1550	<p>EC-P-30 <u>Mina ALYANI</u> - Effect of water on the deactivation of Pd-based catalysts during methane oxidation at low temperature <i>Co-author:</i> Kevin J. SMITH</p>	<p>EC-P-40 <u>Mingli FU</u> - Oxygen vacancies evolution in MnO_x(0.4)-CeO₂ catalysts mixed with soot with in situ Raman analyses <i>Co-authors:</i> Junmin LIN, Zeng WU, Hui HE, Yufang GUO, Daiqi YE</p>	<p>GC-P-13 <u>Hossein BAYAHIA</u> - High catalytic activity of silicalite in gas-phase ketonisation of propionic acid <i>Co-authors:</i> Elena KOZHEVNIKOVA, Ivan KOZHEVNIKOV</p>
1600	<p>EC-P-31 <u>Emma ADAMS</u> - Ammonia formation over supported platinum and palladium catalysts for passive SCR applications <i>Co-authors:</i> M. SKOGLUNDH, M. FOLIC, P. GABRIELSSON, J. GUSTAFSON, L. MERTE, J. EVERTSSON, C. ZHANG, M. SHIPILIN, F. BERTRAM, P.-A. CARLSSON</p>	<p>EC-P-41 <u>Andrew D'AMICO</u> - Determining the Oxygen Storage Capacity (OSC) of ceria materials by oxygen adsorption isotherms <i>Co-authors:</i> Onaje LAMONT, Sarah MCNEW SCHIMMING, Carsten SIEVERS</p>	<p>GC-P-14 <u>Valérie CAPS</u> - Highly efficient low temperature catalytic processes based on durable gold catalysts <i>Co-authors:</i> K. GUILLOIS, A. TUEL, P. LAVEILLE, J.-M. BASSET, C. PETIT</p>
1610	<p>EC-P-32 <u>Fabien CAN</u> - Urea-SCR activity of powdered catalyst at laboratory scale <i>Co-authors:</i> M. SENEQUE, X. COURTOIS, D. DUPREZ</p>	<p>EC-P-42 <u>William EPLING</u> - Methane oxidation hysteresis over Pt/Al₂O₃ <i>Co-authors:</i> Ashraf AMIN, R.E. HAYES</p>	<p>GC-P-15 <u>Stanislaw DZWIGAJ</u> - Catalytic conversion of 1,2-dichloroethane over monometallic NiBEA and bimetallic CuNiBEA catalysts into value added products <i>Co-authors:</i> A. ŚRĘBOWATA, R. BARAN, S. CASALE, D. LISOVYTSKIY, I.I. KAMIŃSKA, D. ŁOMOT</p>

Monday, August 25

Time	Session A (Hoover)	Session B (Eisenhower)	Session C (Coolidge)
1620	EC-P-33 <u>Ambareesh MURKUTE</u> - Influence of vanadia monolayer coverage on structure-functional relationships of powder and monolith SCR catalysts prepared on commercial titania <i>Co-author:</i> David VAN DER WIEL	EC-P-43 <u>CANCELLED</u>	GC-P-16 <u>Kuo-Tseng LI</u> - Hydrogenolysis of glycerol to 1,2-propanediol on copper core - porous silica shell - nanoparticles <i>Co-authors:</i> Hsien-Chang WANG, Chih-Hao WANG
1630	EC-P-34 <u>Marika MÄNNIKKÖ</u> - Lean NO _x reduction with methanol over Ag-Al ₂ O ₃ - influence of hydrogen and characteristics of silver species <i>Co-authors:</i> Magnus SKOGLUNDH, Hanna HÄRELIND	EC-P-44 <u>Andrew BINDER</u> - Enhancing durability and low-temperature activity of Pd-based diesel oxidation catalysts using ZrO ₂ supports <i>Co-authors:</i> Mi-Young KIM, Jae-Soon CHOI, Todd J. TOOPS, Cyril THOMAS, James E. PARKS II, Viviane SCHWARTZ, Jihua CHEN	GC-P-17 <u>REPLACES GC-O-02</u> Monday 1030 Session B (Heritage Ballroom B)
1640	EC-P-37 <u>Franklin (Feng) TAO</u> - Transformation of nitric oxide to molecular nitrogen with 100% selectivity on catalysts made of earth-abundant elements at relatively low temperature <i>Co-authors:</i> Shiran ZHANG, Junjun SHAN	EC-P-45 <u>Andrew BINDER</u> - CO oxidation over CuO _x -CoO _y -CeO ₂ ternary oxide in simulated exhaust conditions: Comparison to platinum-group metal catalysts <i>Co-authors:</i> Todd TOOPS, Sheng DAI, James E. PARKS	GC-P-18 <u>Ewa NOWICKA</u> - Utilization of CO ₂ in propane oxidative dehydrogenation <i>Co-authors:</i> Christian REECE, David WILLOCK, Stan GOLUNSKI, Graham J. HUTCHINGS
1650	EC-P-36 <u>Isabella NOVA</u> - Hydrothermal ageing of a commercial Fe-zeolite catalyst <i>Co-authors:</i> Maria Pia RUGGERI, Enrico TRONCONI	EC-P-46 <u>Junhu WANG</u> - Highly sintering-resistant Au/TiO ₂ -HAP catalyst for CO oxidation at low temperatures <i>Co-authors:</i> Hailian TANG, Kunfeng ZHAO, Botao QIAO, Changzi JIN, Xin LIU	GC-P-19 <u>Marc PERA-TITUS</u> - Paper-based titania/hollow silica photocatalysts for ethanol abatement <i>Co-authors:</i> S. ADJIMI, P-X. THIVEL, F. DELPECH, J.-C. ROUX, N. SERGENT, A. KANAIEV
1700	EC-P-35 <u>Shuichi NAITO</u> - Mechanistic study of NO _x storage and reduction behavior over Pt/alkali metal nitrate nanocomposite catalysts supported on TiO ₂ <i>Co-authors:</i> Ryou WATANABE, Katsuaki TAKAHASHI, Akihiro YOSHIDA	EC-P-47 <u>Chao XIE</u> - Impact of rate of accelerated aging with metal fuel impurities on diesel engine emissions control <i>Co-authors:</i> Michael J. LANCE, Aaron WILLIAMS, Todd J. TOOPS	GC-P-20 <u>Boštjan ERJAVEC</u> - Immobilized TiO ₂ -based photocatalyst for efficient removal of estrogenicity of bisphenol analogues (BPA, BPF, BPAF) <i>Co-authors:</i> P. HUDOKLIN, T. TIŠLER, M. SOLLNER DOLENC, A. PINTAR
1710-1910	<div> <div>POSTER RECEPTION</div> <div>(Grand Ballroom A and B)</div> </div>		

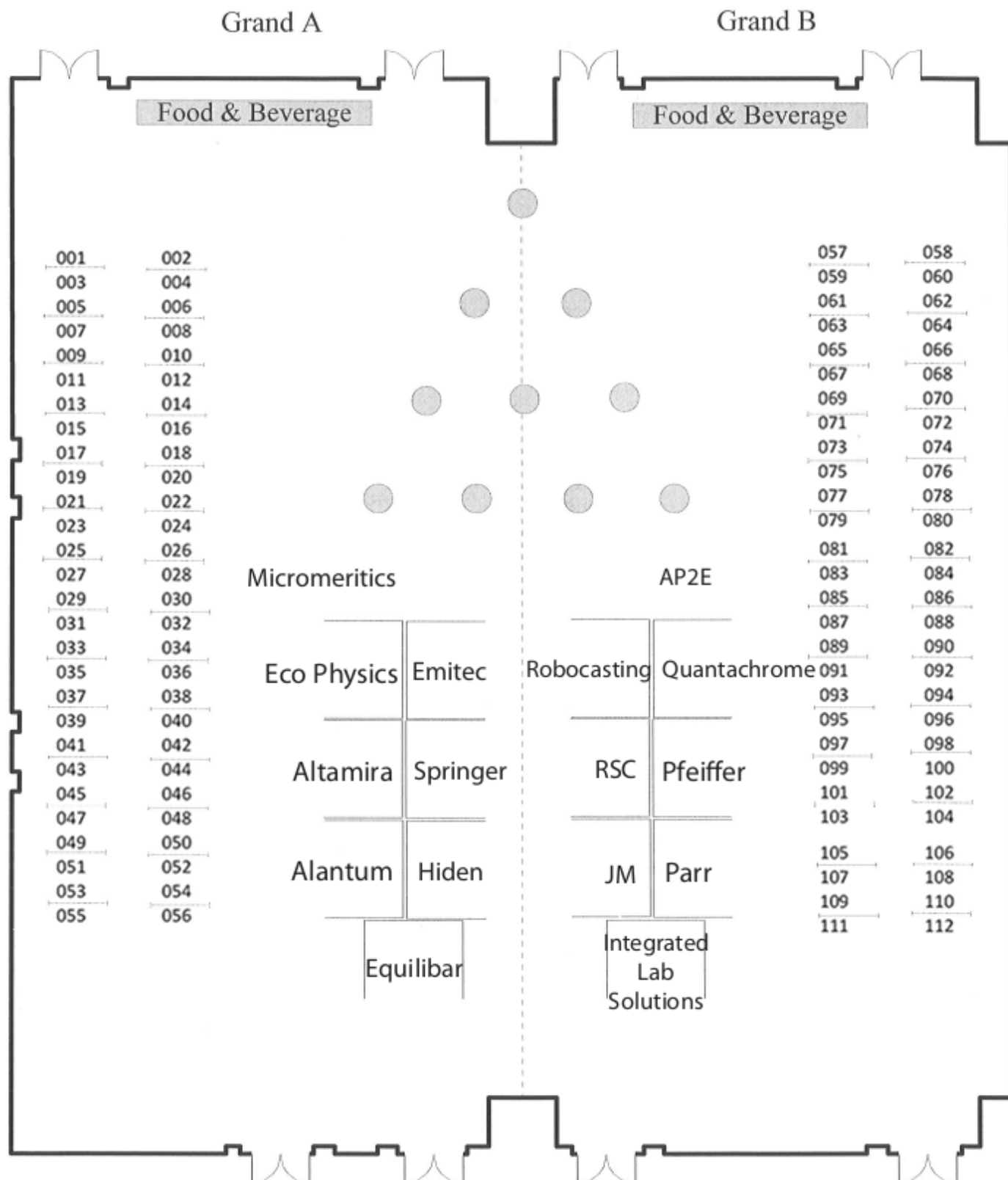
Tuesday, August 26

Time	Session A (Hoover)	Session B (Eisenhower)	Session C (Coolidge)
Session Chairs	Feng GAO	Rachel GETMAN & Mahendra SUNKARA	Sven KURETI
1450	EC-P-89 <u>Małgorzata RUTKOWSKA</u> - Mesopore-beta zeolites modified with Fe, Cu and Co: Preparation, characterization and catalytic activity in N ₂ O decomposition and selective reduction of NO with ammonia <i>Co-authors:</i> L. CHMIELARZ, Z. PIWOWARSKA, C. VAN OERS, P. COOL	SCE-P-47 <u>Snehesh Shivananda AIL</u> - Characterization of SiO ₂ supported Co catalysts synthesized by solution combustion method for Fischer-Tropsch synthesis <i>Co-author:</i> S. DASAPPA	WT-P-10 <u>Yongbing XIE</u> - The influence of surface basic sites to the reaction pathways in AC enhanced ozonation of oxalate <i>Co-authors:</i> Linlin XING, Hongbin CAO
1500	EC-P-90 <u>François BATLLO</u> - Customized precursors for catalyst synthesis <i>Co-author:</i> Kim M. LONG	SCE-P-48 <u>Eleni PACHATOURIDOU</u> - Hydrogen production via biogas reforming over nickel-alumina catalysts: Effect of catalysts' synthesis method <i>Co-authors:</i> M.A. GOULA, K.N. PAPAGERIDIS, N.D. CHARISIOU, O.A. BEREKETIDOU, E.F. ILIOPOULOU	WT-P-11 <u>Johannes SCHWANK</u> - Adsorption and photocatalytic degradation of MB over TiO ₂ nanotubes: Influence of hydrothermal synthesis temperature <i>Co-authors:</i> Nan LIU, Xiaoyin CHEN, Jinli ZHANG
1510	EC-P-91 <u>Stefanie TAMM</u> - Silver as storage compound for NO _x at low temperatures <i>Co-authors:</i> Stanislava ANDONOVA, Louise OLSSON	SCE-P-49 <u>Franklin (Feng) TAO</u> - Catalytic conversion of methane to methanol and formic acid on singly dispersed palladium oxide species on internal surface of ZSM5 <i>Co-authors:</i> Weixin HUANG, Junjun SHAN, Anatoly I. FRENKEL	WT-P-12 <u>Halema AL-KANDARI</u> - Photocatalytic degradation of phenolic compounds <i>Co-authors:</i> A.M. ABDULLAH, A.M. MOHAMED, S. AL-KANDARI
1520	EC-P-92 <u>Jinyong LUO</u> - Identification of two types of Cu sites and their unique responses to hydrothermal aging and sulfur poisoning <i>Co-authors:</i> Di WANG, Ashok KUMAR	SCE-P-50 <u>Mahendra K. SUNKARA</u> - Nanowire catalysts for ultra-deep desulfurization of fuels <i>Co-authors:</i> Mayank GUPTA, Franz G. PETZOLD, Dania A. FONSECA	WT-P-13 <u>Pallavi GHUTE</u> - Photocatalytic degradation of emerging pharmaceutical pollutants using bimetallic Pd-magnetite nanoparticles <i>Co-authors:</i> Francisco MEDINA, Giuseppe MASCOLO, Sandra CONTRERAS
1530	EC-P-93 <u>Cyril THOMAS</u> - Insights into the influence of the Ag loading on Al ₂ O ₃ in the H ₂ -assisted C ₃ H ₆ -SCR of NO _x : a kinetic study <i>Co-authors:</i> T. CHAIEB, L. DELANNOY, G. COSTENTIN, C. LOUIS	SCE-P-51 <u>Matthew YUNG</u> - Effects of catalyst acidity on upgrading of biomass pyrolysis vapors <i>Co-authors:</i> Chaiwat ENGTRAKUL, Calvin MUKARAKATE, Anne STARACE, Jessica OLSTAD	GC-P-33 <u>Víctor Gabriel BALDOVINO MEDRANO</u> (for Maryna KUZMINSKA) - Grafting of macroporous Si(HIPE) foams with acidic groups for heterogeneous catalysis of esterification <i>Co-authors:</i> M. DEPARDIEU, E.M. GAIGNEAUX, R. BACKOV

Tuesday, August 26

Time	Session A (Hoover)	Session B (Eisenhower)	Session C (Coolidge)
1540	EC-P-94 <u>Sibo WANG</u> - 3D perovskite/metal oxide composite nanorod array based monolithic catalysts for automotive emission control <i>Co-authors:</i> Zheng REN, Yanbing GUO, Pu-Xian GAO	SCE-P-52 <u>Cameron BODENSCHATZ</u> - A combined density functional theory and molecular dynamics approach for quantifying catalytic energies in water <i>Co-author:</i> Rachel B. GETMAN	GC-P-34 <u>Víctor Gabriel BALDOVINO MEDRANO</u> (for Maryna KUZMINSKA) - "Green" synthesis of biolubricants catalyzed by ion-exchange resins <i>Co-author:</i> E.M. GAIGNEAUX
1550	EC-P-95 <u>Kurnia WIJAYANTI</u> - Impact of sulfur oxides on catalytic functions of Cu-SAPO-34 <i>Co-authors:</i> S. ANDONOVA, A. KUMAR, J. LI, K. KAMASAMUDRAM, N.W. CURRIER, A. YEZERETS, L. OLSSON	SCE-P-53 <u>Julian BÄR</u> - Catalytic reforming of jet fuels over Rh/Al ₂ O ₃ <i>Co-authors:</i> Edimilson Jesus DE OLIVIERA, Olaf DEUTSCHMANN	GC-P-35 <u>Yongdan LI</u> - One-pot catalytic conversion of kraft lignin into value added chemicals over molybdenum carbide catalysts <i>Co-author:</i> Rui MA
1600	EC-P-96 <u>Huazhen CHANG</u> - A novel mechanism for poisoning of metal oxides SCR catalyst: base-acid explanation correlated with redox property <i>Co-authors:</i> Yuankai SHAO, Wenkang SU, Jiming HAO, Junhua LI	SCE-P-54 <u>Valérie CAPS</u> - Hydrogen-promoted oxidation over hydrophobic Au/FLG catalysts <i>Co-authors:</i> F. VIGNERON, J.-M. NHUT, A. RACH, A. PIQUET, C. PHAM-HUU	GC-P-36 <u>Girish SRINIVAS</u> - Homogeneous catalysts stabilized in ionic liquids for conversion of synthesis gas into fuel ethanol via homologation of methanol <i>Co-authors:</i> Michael V. MUNDSCHAU, Jeffrey MARTIN, Steven C. GEBHARD
1610	EC-P-97 <u>REPLACES EC-O-97</u> Wednesday 1340 Session A (Heritage Ballroom A)	SCE-P-55 <u>Alessandro DONAZZI</u> - Electrochemical activity of co-precipitated LnBaCo ₂ O _{5+δ} (Ln = La, Y) <i>Co-authors:</i> R. PELOSATO, C. CRISTIANI, G. DOTELLI, M. MARIANI, I. NATALI SORA	GC-P-37 <u>Alexandre GOGUET</u> - Advances in selective hydrogenation of α,β-unsaturated aldehydes and ketones using porous manganese oxide (OMS-2) and platinum supported OMS-2 catalysts <i>Co-authors:</i> H. MANYAR, B. YANG, H. DALY, R. MORGAN, K. MORGAN, P. HU, J. SZLACHETKO, J. SÁ, C. HARDACRE
1620	EC-P-98 <u>Yaying JI</u> - Al ₂ O ₃ -based passive NO _x adsorbers for low temperature applications <i>Co-author:</i> Mark CROCKER	SCE-P-56 <u>Ruinian XU</u> - Catalytic combustion of acrylonitrile over 3d-transition metals (Cu, Co, Fe) or Pt/SBA-15, Cu/SBA-16 and Cu/KIT-6 mesoporous catalysts <i>Co-authors:</i> Runduo ZHANG, Dongjun SHI, Ning LIU	GC-P-38 <u>Ara KIM</u> - Selective CO ₂ methanation on Ru/TiO ₂ catalyst: unravelling the decisive role of the TiO ₂ crystal structure <i>Co-authors:</i> Clément SANCHEZ, Damien P. DEBECKER, Capucine SASSOYE
1630-1830	POSTER RECEPTION (Grand Ballroom A and B)		
1900-2200	BANQUET DINNER (Heritage Ballroom)		

POSTER LAYOUT



POSTER SESSIONS

Monday, August 25
Grand Ballroom A and B

Board #	SUSTAINABLE CLEAN ENERGY
1	SCE-P-01 <u>Aboubakr ABDULLAH</u> - Performance of H ₂ /air PEM fuel cells operating under galvanostatic mode using a 5 – 5 segmented fuel cell; Co-authors: Takeyoshi OKAJIMA, Fusao KITAMURA, Takeo OHSAKA
2	SCE-P-02 <u>Jehad ABU-DAHRIEH</u> - Different heating techniques for biogas reforming to dimethyl ether; Co-authors: María Natividad PÉREZ CAMACHO, David ROONEY
3	SCE-P-03 <u>Shekhah AL-KANDARI</u> - Reforming of hydrocarbons on partially reduced MoO ₃ /TiO ₂ ; Co-authors: H. AL-KANDARI, A.M. MOHAMED, F. AL-KHARAFI, A. KATRIB
4	SCE-P-04 <u>Ahmed ALFATESH</u> - Effect of Tb promoter on catalytic performance of Ni/ZrO ₂ catalysts in carbon dioxide reforming of methane; Co-authors: Muhammad A. NAEEM, Ahmed A. IBRAHIM, A.E. ABASEED, Anis H. FAKEEHA
5	SCE-P-05 <u>Hamid ALMEGREN</u> - Hydrodesulphurization over mixed oxides catalyst supported on zeolite to produce environmental friendly cleaner fuels; Co-authors: Mohammed C. AL-KINANY, Yan ZI-FENG, Rui FENG, Saeed M. AL-SHIHRI, Eyad A. AL-GHILAN, Bandar S. AL-HUDAIB, Abdulaziz AL-GASHEM, Ali A. ALGARNI, Faisal M. ALOTAIBI
6	SCE-P-06 <u>Elisabete ASSAF</u> - Oxidative reform of biogas over NiO/Nb ₂ O ₅ /MgO catalysts; Co-author: Yvan J.O. ASENCIOS
7	SCE-P-07 <u>Youngchul BYUN</u> - Mechanistic investigations of n-propylbenzene disproportionation over large-pore zeolite LaNa-Y; Co-authors: Hong-Joo JEON, Suk Bong HONG
8	SCE-P-08 <u>Stanislaw DZWIGAJ</u> - Bifunctional CoSiBEA zeolite catalyst for ecological fuel production in Fischer - Tropsch synthesis; Co-authors: Karolina CHALUPKA, Thomas ONFROY, Sandra CASALE, Jacek GRAMS, Ewa ŻURAWICZ, Joanna KAŁUŻNA-CZAPLIŃSKA, Jacek RYNKOWSKI
9	SCE-P-09 <u>Lucjan CHMIELARZ</u> - Synthesis of dimethyl ether from methanol in the presence of silica based catalysts; Co-authors: Daniel MACINA, Małgorzata RUTKOWSKA, Andrzej KOWALCZYK, Agnieszka WĘGRZYN
10	SCE-P-10 <u>Tomos CLARKE</u> - Simple mechanochemical synthesis of a copper manganese oxide catalyst for CO oxidation; Co-authors: Simon KONDRAT, Thomas DAVIES, Stuart H. TAYLOR
11	SCE-P-11 <u>Massimo COLOMBO</u> - CO oxidation over dumbbell like Au@Fe _x O _y nanoparticles: catalytic activity, thermal stability and effect of gold domain size; Co-authors: S. NAJAFISHIRTARI, L. MANNA
12	SCE-P-12 <u>Jose Luis CONTRERAS</u> - Production of hydrogen by ethanol steam reforming using Ni-Co-hydrotalcite catalysts stabilized with tungsten oxides; Co-authors: A. FIGUEROA, B. ZEIFERT, T. VÁZQUEZ, G.A. FUENTES, L. NUÑO, J. SALMONES, B. QUINTANA, C. TAPIA
14	SCE-P-13 <u>Jose Luis CONTRERAS</u> - Preparation of catalysts to produce hydrogen by ethanol steam reforming (an overview); Co-authors: J. SALMONES, J.A. COLÍN, L. NUÑO, B. QUINTANA, C. TAPIA, B. ZEIFER, G.A. FUENTES, I. CÓRDOVA
15	SCE-P-14 <u>Julia VALLA</u> - The effect of mesoporosity in ZSM-5 and Y zeolites on the conversion of aromatic hydrocarbons; Co-authors: Monica DAHL, David GAMLIEL, Shoucheng DU, George BOLLAS
16	SCE-P-15 <u>Emiliana DVININOV</u> - Fe and Mn promoted tungstated zirconia solid acid catalysts;

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Board #	SUSTAINABLE CLEAN ENERGY (contd.)
17	SCE-P-16 <u>Emiliana DVININOV</u> - Improved CaO/CaZrO ₃ adsorbents with potential applications in sorption enhanced steam reforming; Co-authors: Ming ZHAO, Matthew BILTON, Andy P. BROWN, Adrian M. CUNLIFFE, Valerie DUPONT, Tim P. COMYN, Steven J. MILNE
18	SCE-P-17 <u>Emiliana DVININOV</u> - Catalytic steam reforming of biodiesel as a means of renewable hydrogen production; Co-authors: Gaurav NAHAR, Valerie DUPONT
19	SCE-P-18 <u>CANCELLED</u>
20	SCE-P-19 <u>Young Gul HUR</u> - Catalytic activity of WS ₂ nanoparticles in the hydrotreatment reaction on extra-heavy oil; Co-authors: Seongmin KIM, Hee-Jun EOM, Kwan-Young LEE
21	SCE-P-20 <u>Ben JANG</u> - Ultrasound sulfonation and esterification for biodiesel production using starch derived heterogeneous acid catalysts; Co-authors: Nathaniel B. HANSON, Mihira VASANA, Bhargavi S. CHILUKURI
22	SCE-P-21 <u>Jinqing JIAO</u> - Design and synthesis of core-shell Au(Pt)@CdS nanoparticles supported on 3D ordered macroporous TiO ₂ with enhanced catalytic activity for the photocatalytic reduction of CO ₂ into hydrocarbons; Co-authors: Yuechang WEI, Zhen ZHAO, Jian LIU
23	SCE-P-22 <u>John KUHN</u> - Towards conversion of landfill gas to high-value liquid hydrocarbons in a combined reforming-FTS process; Co-authors: Devin M. WALKER, S. Ali GARDEZI, Ryan A. KENT, Tim M. ROBERGE, B. JOSEPH
24	SCE-P-23 <u>Jiang LI</u> - The electronic conductivity of samarium doped ceria; Co-author: Yongdan LI
25	SCE-P-24 <u>Ryan LOE</u> - Catalytic deoxygenation of tristearin to hydrocarbons over supported nickel alloy catalysts; Co-authors: Eduardo SANTILLAN-JIMENEZ, Mark CROCKER
26	SCE-P-25 <u>Gaël PENG</u> - CO methanation on Ni/Al ₂ O ₃ catalysts in the presence of hydrocarbons; Co-authors: Anastasios KAMBOLIS, Stefanie BROSE, Davide FERRI, Paula M. ABDALA, Oliver KRÖCHER
27	SCE-P-26 <u>José M. ASSAF</u> - Lithium-based catalysts derived from sol-gel hydrotalcite for ethylic transesterification; Co-authors: Renata A.B. LIMA-CORRÊA, Cíntia S. CASTRO
28	SCE-P-27 <u>Takahiro KAWADA</u> - Molten copper hexaoxodivanadate as SO ₃ decomposition catalyst for solar thermochemical water splitting cycles; Co-authors: M. MACHIDA, T. TAJIRI, T. YAMASHITA, S. HINOKUMA

Board #	EMISSIONS CONTROL
29	EC-P-01 <u>Daiqi YE</u> - An insight into the correlation of solid solution and surface active species in MnO _x -CeO ₂ mixed oxides toward soot oxidation; Co-authors: Junmin LIN, Mingli FU, Junliang WU, Limin CHEN, Bichun HUANG, William WEN
30	EC-P-02 <u>Laif ALDEN</u> - A base metal catalysts for vent gas emission control from purified terephthalic acid plants
31	EC-P-03 <u>Piyasan PRASERTHDAM</u> - Catalytic properties tuning of gamma-Al ₂ O ₃ supported catalyst via chi- and alpha-phases incorporation; Co-authors: N. CHOTIGKRAI, C. MEEPHOKA, S. KOMHOM
32	EC-P-04 <u>Ruinian XU</u> - Selective catalytic oxidation (SCO) of ammonia to nitrogen over mesoporous zeolite; Co-authors: Runduo ZHANG, Tun PENG
33	EC-P-05 <u>Sven KURETI</u> - Highly efficient iron oxide catalysts for emission control; Co-author: Andreas PACHER

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Board #	EMISSIONS CONTROL (contd.)
34	EC-P-06 <u>Sven KURETI</u> - Modeling of the CO oxidation on Fe ₂ O ₃ model catalyst; Co-author: Christine BREYER
35	EC-P-07 Dongjun SHI - An economical way to synthesize SSZ-13 for an extraordinary performance in Selectively Catalytic Reduction (SCR) of NO _x by ammonia; Co-authors: Ruinian XU, Runduo ZHANG, Ning LIU
36	EC-P-08 <u>Eleni PACHATOURIDOU</u> - N ₂ O decomposition over structurally promoted Ir/Al ₂ O ₃ catalysts; Co-authors: Eleni F. ILIOPOULOU, Eleni PAPISTA, Andreas DELIMITIS, Georgios E. MARNELLOS, Michalis KONSOLAKIS, Ioannis YENTEKAKIS
37	EC-P-09 <u>Mehdi ALLAHVERDI</u> - Laboratory evaluation of SO _x reduction additives for FCC; Co-authors: Xunhua MO, Yali TANG, Justin CRIBBS, Natalie HERRING, Bart DE GRAAF, Paul DIDDAMS
38	EC-P-10 <u>Mayank BEHL</u> - Removal of organo-sulfur impurities at low-temperatures using Au-ZnO nanocomposites as catalytic adsorbent
39	EC-P-11 <u>Tsong-Huei CHANG</u> - A new route for the catalyst preparation via particle imprinting for SCR DeNO _x
41	EC-P-12 <u>Tsong-Huei CHANG</u> - A study of titanosilicates with MFI structure for SCR DeNO _x
42	EC-P-13 <u>Hsiao-Lan CHANG</u> - CeO ₂ /ZrO ₂ mixed oxides supported on Al ₂ O ₃ for improved low temperature TWC activity; Co-authors: Haiying CHEN, Kwangmo KOO, Jeffery RIECK
43	EC-P-14 <u>Lucjan CHMIELARZ</u> - SBA-15, MCF and HMS mesoporous silicas modified with iron oxide aggregates as catalysts for selective reduction of NO with ammonia; Co-authors: Daniel MACINA, Andrzej KOWALCZYK
44	EC-P-15 <u>Mark CROCKER</u> - Model Pt/Ce _x Pr _{1-x} O ₂ (x = 1 or 0.9) NO _x storage-reduction catalysts; Co-authors: Verónica RICO-PÉREZ, Agustín BUENO-LÓPEZ, Dae Jung KIM, Yaying JI
45	EC-P-16 <u>John DARAB</u> - Development of evaluation test for soot oxidation catalysts
46	EC-P-17 <u>John DARAB</u> - Composite oxide materials for automotive catalyst applications
47	EC-P-18 <u>Steven DECICCO</u> - Forensic investigation of catalyst performance in a large scale system
48	EC-P-19 <u>Jinzhu MA</u> - Preparing Ag/Al ₂ O ₃ for the selective catalytic reduction of NO _x by ball-milling method; Co-authors: Hua DENG, Yunbo YU, Hong HE
49	EC-P-20 <u>Christophe DUJARDIN</u> - Improved thermal stability of lanthanum-deficient perovskite-based catalysts for the catalytic decomposition of N ₂ O from nitric acid plants; Co-authors: Yihao WU, Xianzhe NI, Camila PEDRAZA, Pascal GRANGER
50	EC-P-21 <u>Tanja FRANKEN</u> - Optimizing Co-based spinel catalysts for efficient N ₂ O decomposition; Co-author: R. PALKOVITS
51	EC-P-22 <u>CANCELLED</u>
52	EC-P-23 <u>Fei GAO</u> - Correlation between the crystal-plane effects and catalytic performances of CuO/CeO ₂ catalysts for NO reduction by CO; Co-authors: Y. CAO, L. ZHAO, L.M. PENG, L. DONG
53	EC-P-24 <u>Anne GIROIR-FENDLER</u> - Catalytic combustion of toluene over cryptomelane-type manganese oxide supported metals; Co-authors: S. GIL, J.A. DÍAZ, L. RETAILLEAU, M. OUSMANE, M. PERA-TITUS, F. DE CAMPO

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Board #	EMISSIONS CONTROL (contd.)	
54	EC-P-25 <u>CANCELLED</u>	
55	EC-P-26 <u>Haibao HUANG</u> - Enhanced photocatalytic degradation of gaseous benzene under ozone-produced UV irradiation over transition metal modified TiO ₂ ; Co-authors: Huiling HUANG, Peng HU, Ying XU, Xinguo YE, Jiandong CHEN, Dennis Y.C. LEUNG	
56	EC-P-27 <u>Maria CASAPU</u> - Influence of the preparation method on the hydrothermal stability and sulfur poisoning resistance of Mn-and Fe-based CO oxidation catalysts; Co-authors: Marina TEPLUCHIN, Sven KURETI, Jan-Dierk GRUNWALDT	
57	EC-P-28 <u>Lucjan CHMIELARZ</u> - Selective catalytic oxidation of ammonia to nitrogen over bi-functional hydrotalcite originated mixed metal oxides doped with noble metals; Co-authors: Magdalena JABŁOŃSKA, Agnieszka WĘGRZYN, Zofia PIWOWARSKA	OP
58	EC-P-29 <u>Akira HASEGAWA</u> - Preparation of heat-resistant alumina using a coprecipitation method; Co-authors: Nobue NEJO, Marina KOBUNE, Osamu OKADA	OP
59	EC-P-30 <u>Mina ALYANI</u> - Effect of water on the deactivation of Pd-based catalysts during methane oxidation at low temperature; Co-author: Kevin J. SMITH	OP
60	EC-P-31 <u>Emma ADAMS</u> - Ammonia formation over supported platinum and palladium catalysts for passive SCR applications; Co-authors: M. SKOGLUNDH, M. FOLIC, P. GABRIELSSON, J. GUSTAFSON, L. MERTE, J. EVERTSSON, C. ZHANG, M. SHIPLIN, F. BERTRAM, P.-A. CARLSSON	OP
61	EC-P-32 <u>Fabien CAN</u> - Urea-SCR activity of powdered catalyst at laboratory scale; Co-authors: M. SENEQUE, X. COURTOIS, D. DUPREZ	OP
62	EC-P-33 <u>Ambareesh MURKUTE</u> - Influence of vanadia monolayer coverage on structure-functional relationships of powder and monolith SCR catalysts prepared on commercial titania; Co-author: David VAN DER WIEL	OP
63	EC-P-34 <u>Marika MÄNNIKKÖ</u> - Lean NO _x reduction with methanol over Ag-Al ₂ O ₃ - influence of hydrogen and characteristics of silver species; Co-authors: Magnus SKOGLUNDH, Hanna HÄRELIND	OP
64	EC-P-35 <u>Shuichi NAITO</u> - Mechanistic study of NO _x storage and reduction behavior over Pt/alkali metal nitrate nanocomposite catalysts supported on TiO ₂ ; Co-authors: Ryou WATANABE, Katsuaki TAKAHASHI, Akihiro YOSHIDA	OP
65	EC-P-36 <u>Isabella NOVA</u> - Hydrothermal ageing of a commercial Fe-zeolite catalyst; Co-authors: Maria Pia RUGGERI, Enrico TRONCONI	OP
66	EC-P-37 <u>Franklin (Feng) TAO</u> - Transformation of nitric oxide to molecular nitrogen with 100% selectivity on catalysts made of earth-abundant elements at relatively low temperature; Co-authors: Shiran ZHANG, Junjun SHAN	OP
67	EC-P-38 <u>Stanisław DZWIGAJ</u> - BEA zeolite modified with vanadium as effective catalyst for selective reduction of NO with ammonia; Co-authors: Rafal BARAN, Thomas ONFROY, Yannick MILLOT, Teresa GRZYBEK	OP
68	EC-P-39 <u>René BINDIG</u> - Challenges and recent developments for emission control on stationary biomass combustion devices for energy production; Co-authors: Saad BUTT, Daniel DVORACEK, Dirk ENKE, Ingo HARTMANN	OP

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Board #	EMISSIONS CONTROL (contd.)	
69	EC-P-40 <u>Mingli FU</u> - Oxygen vacancies evolution in $\text{MnO}_x(0.4)\text{-CeO}_2$ catalysts mixed with soot with in situ Raman analyses; Co-authors: Junmin LIN, Zeng WU, Hui HE, Yufang GUO, Daiqi YE	OP
70	EC-P-41 Andrew D'AMICO - Determining the Oxygen Storage Capacity (OSC) of ceria materials by oxygen adsorption isotherms; Co-authors: Onaje LAMONT, Sarah MCNEW SCHIMMING, Carsten SIEVERS	OP
71	EC-P-42 <u>William EPLING</u> - Methane oxidation hysteresis over $\text{Pt/Al}_2\text{O}_3$; Co-authors: Ashraf AMIN, R.E. HAYES	OP
72	EC-P-43 CANCELLED	OP
73	EC-P-44 Andrew BINDER - Enhancing durability and low-temperature activity of Pd-based diesel oxidation catalysts using ZrO_2 supports; Co-authors: Mi-Young KIM, Jae-Soon CHOI, Todd J. TOOPS, Cyril THOMAS, James E. PARKS II, Viviane SCHWARTZ, Jihua CHEN	OP
74	EC-P-45 Andrew BINDER - CO oxidation over $\text{CuO}_x\text{-CoO}_y\text{-CeO}_2$ ternary oxide in simulated exhaust conditions: Comparison to platinum-group metal catalysts; Co-authors: Todd TOOPS, Sheng DAI, James E. PARKS	OP
75	EC-P-46 Junhu WANG - Highly sintering-resistant $\text{Au/TiO}_2\text{-HAP}$ catalyst for CO oxidation at low temperatures; Co-authors: Hailian TANG, Kunfeng ZHAO, Botao QIAO, Changzi JIN, Xin LIU	OP
76	EC-P-47 <u>Chao XIE</u> - Impact of rate of accelerated aging with metal fuel impurities on diesel engine emissions control; Co-authors: Michael J. LANCE, Aaron WILLIAMS, Todd J. TOOPS	OP

Board #	INDOOR AIR CLEANING
77	IAC-P-01 <u>Chuan SHI</u> - Supported gold catalysts effective for formaldehyde oxidation at room temperature; Co-author: Bingbing CHEN
78	IAC-P-02 <u>Beatriz DELGADO</u> - New process for reduction of polluting emissions in livestock buildings; Co-authors: L. RETAILLEAU, S. GODBOUT, R. LAGACE, A. AVALOS RAMIREZ, A. GIROIR-FENDLER
79	IAC-P-03 <u>Hong HE</u> - Sodium-promoted Pd/TiO_2 for catalytic oxidation of formaldehyde at ambient temperature; Co-authors: Yaobin LI, Changbin ZHANG, Yafei WANG
80	IAC-P-04 <u>Hong HE</u> - Effects of preparation conditions and crystal phase of manganese-loaded $\gamma\text{-Al}_2\text{O}_3$ catalyst on the plasma-catalytic removal of o-xylene; Co-authors: Lian WANG, Changbin ZHANG, Yafei WANG
81	IAC-P-05 Junliang WU - High-efficiency non-thermal plasma catalytic performance of cobalt incorporated mesoporous MCM-41 for toluene removal; Co-authors: Xiaoxin XU, Daiqi YE

Board #	WATER TREATMENT
83	WT-P-01 <u>Roger BRUNET ESPINOSA</u> - Structured catalyst-reactor for the selective reduction of nitrites and nitrates to N_2 in water; Co-authors: D. RAFIEIAN, R. LAMMERTINK, L. LEFFERTS
84	WT-P-02 <u>Luis Alejandro GALEANO</u> - Monitoring of chemical intermediates through the methyl orange's Catalytic Wet Peroxide Oxidation (CWPO) by HPLC-DAD and GC/FID; Co-authors: Viviana N. AGUILAR, Miguel A. VICENTE, Antonio GIL

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Board #	WATER TREATMENT (contd.)
86	WT-P-03 <u>Luis Alejandro GALEANO</u> - Disinfection potential of the Catalytic Wet Peroxide Oxidation (CWPO) for inactivation of intestinal parasites giardia lamblia and cryptosporidium parvum; Co-authors: Milena GUERRERO, Claudia A. SÁNCHEZ
87	WT-P-04 Min-Sung KIM - Ceria modified titania supported Pd-Cu catalysts for nitrate reduction in water; Co-author: Kwan-Young LEE
88	WT-P-05 <u>Guiying LI</u> - Mechanism consideration of photocatalytic and photoelectrocatalytic inactivation of <i>E. coli</i> inactivation; Co-authors: Hongwei SUN, Taicheng AN, Po-kueng WONG, Huijun ZHAO
89	WT-P-06 <u>Andrew MCCARTNEY</u> - Density functional theory screening of metal nanocatalysts for activity and selectivity toward water pollutants; Co-authors: Lizzie BOLLMANN, Rachel B. GETMAN

Board #	GREEN CHEMISTRY
92	GC-P-01 <u>Samia KOSA</u> - The use of a nanoscale copper catalyst in the catalytic decomposition of water polluted with organic dyes
93	GC-P-02 <u>Wagner CARVALHO</u> - Catalytic conversion of glycerol to phenylacetaldehyde cyclic acetals; Co-authors: Cauê A.C. SILVA, Maraisa GONÇALVES, Dalmo MANDELLI, Flávia C.A. FIGUEIREDO, Ines MATOS, Isabel M. FONSECA
94	GC-P-03 <u>Wagner CARVALHO</u> Catalytic conversion of glycerol to solketal under mild and solvent-free conditions; Co-authors: Raphael RODRIGUES, Maraísa GONÇALVES, Dalmo MANDELLI, Paolo P. PESCARMONA
96	GC-P-04 <u>Fenglan CHAI</u> - Green synthesis of monoisopropylamine; Co-authors: Yutao DONG, Jingwei XU, Sufeng ZHAO, Bo JIN, Tao ZHOU
100	GC-P-05 <u>Radosław DĘBEK</u> - Hydrotalcite derived catalysts with different Ni/Mg/Al molar ratios as a catalyst for low temperature dry reforming of methane; Co-authors: Małgorzata ADAMOWSKA, Monika MOTAK, Patrick DA COSTA, Teresa GRZYBEK
97	GC-P-06 <u>Susumu ENDO</u> - Magnetic field effect on heterogeneous photocatalysis; Co-authors: S. JOONWICHEN, E. YAMASUE, K.N. ISHIHARA, H. OKUMURA
98	GC-P-07 <u>Fiseha Bogale GEBRETSADIK</u> - Hydrogenolysis of glycidol to 1,3-propanediol over mesoporous acid saponite supported Ni and Ni-Cu bimetallic catalysts; Co-authors: Javier RUIZ-MARTÍNEZ, Pilar SALAGRE, Yolanda CESTEROS
99	GC-P-08 <u>Thierry GEREZ</u> - Supported copper catalysts for hydrogen transfer reactions involving allylic alcohols; Co-authors: Michèle BESSON, Catherine PINEL, Jean-Michel JOERGER, Vivien HENRYON
101	GC-P-09 <u>Marta HELMIN</u> - CO ₂ -free hydrogen by catalytic decomposition of methane in a fluidized bed reactor; Co-authors: S. PALKOVITS, R. PALKOVITS
103	GC-P-10 <u>Ginjunpalli Srinivasa RAO</u> - Vapour phase dehydration of glycerol to acrolein over solid acid metal phosphate catalysts; Co-authors: Komandur V.R. CHARY, N. Pethan RAJAN, S. AMMAJI, Vanama PAVANKUMAR
104	GC-P-11 <u>Redouane BACHIR</u> - Allylic oxidation of cyclohexene by O ₂ over nano TiO ₂ -Fe ₂ O ₃ oxides; Co-authors: N. AMEUR, S. BEDRANE, A. CHOUKCHOU-BRAHAM

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Monday, August 25

Board #	GREEN CHEMISTRY (contd.)	
102	GC-P-12 <u>Radosław DĘBEK</u> - Low temperature dry reforming of methane over hydrotalcite derived Ni/Mg/Al and Cu/Mg/Al mixed oxides; Co-authors: Katarzyna ZUBEK, Małgorzata ADAMOWSKA, Monika MOTAK, Patrick DA COSTA, Teresa GRZYBEK	OP
105	GC-P-13 Hossein BAYAHIA - High catalytic activity of silicalite in gas-phase ketonisation of propionic acid; Co-authors: Elena KOZHEVNIKOVA, Ivan KOZHEVNIKOV	OP
106	GC-P-14 Valérie CAPS - Highly efficient low temperature catalytic processes based on durable gold catalysts; Co-authors: K. GUILLOIS, A. TUEL, P. LAVEILLE, J.-M. BASSET, C. PETIT,	OP
107	GC-P-15 Stanisław DZWIGAJ - Catalytic conversion of 1,2-dichloroethane over monometallic NiBEA and bimetallic CuNiBEA catalysts into value added products; Co-authors: A. ŚRĘBOWATA, R. BARAN, S. CASALE, D. LISOVYTSKIY, I.I. KAMIŃSKA, D. ŁOMOT	OP
108	GC-P-16 Kuo-Tseng LI - Hydrogenolysis of glycerol to 1,2-propanediol on copper core - porous silica shell - nanoparticles; Co-authors: Hsien-Chang WANG, Chih-Hao WANG	OP
109	GC-P-17 Shuichi NAITO - Effect of structural change of ordered mesopore and Li cation addition upon selective syngas conversion into C ₂ oxygenates over Rh/CeO ₂ catalysts; Co-authors: Tomotsugu SHINGAKI, Tomoki HAKEDA, Akihiro YOSHIDA	OP
110	GC-P-18 Ewa NOWICKA - Utilization of CO ₂ in propane oxidative dehydrogenation; Co-authors: Christian REECE, David WILLOCK, Stan GOLUNSKI, Graham J. HUTCHINGS	OP
111	GC-P-19 Marc PERA-TITUS - Paper-based titania/hollow silica photocatalysts for ethanol abatement; Co-authors: S. ADJIMI, P.-X. THIVEL, F. DELPECH, J.-C. ROUX, N. SERGENT, A. KANAIEV	OP
112	GC-P-20 Boštjan ERJAVEC - Immobilized TiO ₂ -based photocatalyst for efficient removal of estrogenicity of bisphenol analogues (BPA, BPF, BPAF); Co-authors: P. HUDOKLIN, T. TIŠLER, M. SOLLNER DOLENC, A. PINTAR	OP

Tuesday, August 26
Grand Ballroom A and B

Board #	SUSTAINABLE CLEAN ENERGY
1	SCE-P-28 <u>Francielle MARCOS</u> - Acidified and pillared clays for production of dimethyl ether fuel; Co-authors: Thaisa M. DE MATOS, José M. ASSAF, Elisabete M. ASSAF
2	SCE-P-29 <u>Thaisa MATOS</u> - Vanadia-modified alumina for dimethyl ether production; Co-authors: Francielle C.F. MARCOS, Elisabete M. ASSAF
3	SCE-P-30 <u>Fatima PARDO</u> - Synthesis of spherical shape silicas as support for cobalt based catalysts potential for Fischer Tropsch Synthesis; Co-authors: Henrik KUSAR, V. MONTES, A. MARINAS, S. CABRERA, S. JÄRÅS, M. BOUTONNET
4	SCE-P-31 <u>Andraž PAVLIŠIČ</u> - The influence of chloride impurities on Pt/C fuel cell catalyst corrosion; Co-authors: P. JOVANOVIČ, V.S. ŠELIH, M. ŠALA, N. HODNIK, S. HOČEVAR, M. GABERŠČEK
5	SCE-P-32 <u>Gina PECCHI</u> - Dimethyl ether combustion over substituted lanthanum manganites; Co-author: Robinson DINAMARCA
6	SCE-P-33 <u>Lindelani QWABE</u> - Oxidation of CO using gold supported on and NiO/Fe ₂ O ₃ and Fe ₂ O ₃ /Co ₃ O ₄ in a hydrogen rich stream for use in fuel cells; Co-authors: H.B. FRIEDRICH, S. SINGH
7	SCE-P-34 <u>Małgorzata RUGGIERO</u> - Electrochemical oxidation of methane and reduction of oxygen on the electrodes in the single-chamber solid oxide fuel cell (SC SOFC); Co-authors: R. GRABOWSKI, G. MORDARSKI, K. SAMSON, A. ŻELAZNY, M. ŚLIWA, D. RUTKOWSKA-ŻBIK
8	SCE-P-35 <u>Małgorzata RUGGIERO</u> - Influence of the metallic and acidic component modification on the activity of bifunctional catalysts for one-step DME synthesis from syngas; Co-authors: Agata ŻELAZNY, Michał ŚLIWA, Katarzyna SAMSON, Agnieszka KORNAS, Ryszard GRABOWSKI, Dorota RUTKOWSKA-ŻBIK, Wojciech ROJEK
9	SCE-P-36 <u>Olga RUSSIKH</u> - Application of NiO sublayer in catalytic systems on the basis of complex oxides; Co-authors: D.S.CHEZGANOV, N.A. CHUMAK, A.A. OSTROUSHKO
10	SCE-P-37 <u>Shigeo SATOKAWA</u> - Effect of reduction condition of Ni/Al ₂ O ₃ catalyst for suppression of ammonia by-production during steam reforming of nitrogen contaminated methane; Co-authors: F. WATANABE, N. SHIMODA
11	SCE-P-38 <u>Marcos SCHÖNEBORN</u> - Catalyst support materials with enhanced hydrothermal stability; Co-authors: Frank ALBER, Thomas HARMENING
12	SCE-P-39 <u>Naohiro SHIMODA</u> - Effect of traces of chlorine in Ni/TiO ₂ catalyst for the CO selective methanation in reformed gas; Co-authors: D. SHOJI, K. TANI, M. FUJIWARA, R. KIKUCHI, S. SATOKAWA
13	SCE-P-40 <u>Carsten SIEVERS</u> - Surface reactions of polyols in the presence of water; Co-authors: Guo Shiou FOO, John R. COPELAND, Xuerong SHI, Daniel WEI, David S. SHOLL
14	SCE-P-41 <u>CANCELLED</u>
15	SCE-P-42 <u>Cyril THOMAS</u> - Influence of Rh precursor and loading in the autothermal reforming of n-C10 on Rh/CeO ₂ catalysts; Co-authors: C.O. N'GUESSAN, J-M. KRAFFT, F. SER, M. SICARD
16	SCE-P-43 <u>Fei TIAN</u> - The photocatalytic performance for hydrogen generation over La-modified ZnIn ₂ S ₄ under visible light; Co-authors: Rongshu ZHU, Kelin SONG, Minli NIU, Feng OUYANG

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Board #	SUSTAINABLE CLEAN ENERGY (contd.)	
17	SCE-P-44 <u>C. Heath TURNER</u> - Organic-Transition Metal(TM) complex functionalized carbons for electrochemical applications: Geometries, electronic properties and redox potentials; Co-authors: Zhongtao ZHANG, Haining LIU	
18	SCE-P-45 <u>Dai-Viet N. VO</u> - CO hydrogenation over alumina-supported Mo carbide catalysts; Co-authors: Bawadi ABDULLAH, Viswanathan ARCOTUMAPATHY, Chin Kui CHENG, Adesoji A. ADESINA	
19	SCE-P-46 <u>Amit BANSIWAL</u> - Nanostructured copper oxide photocathodes for photoelectrochemical hydrogen production by water splitting; Co-authors: Rajnikant BORKAR, Sadhana RAYALU	
21	SCE-P-47 <u>Snehesh Shivananda AIL</u> - Characterization of SiO ₂ supported Co catalysts synthesized by solution combustion method for Fischer-Tropsch synthesis; Co-author: S. DASAPPA	OP
22	SCE-P-48 <u>Eleni PACHATOURIDOU</u> - Hydrogen production via biogas reforming over nickel-alumina catalysts: Effect of catalysts' synthesis method; Co-authors: M.A. GOULA, K.N. PAPAGERIDIS, N.D. CHARISIOU, O.A. BEREKETIDOU, E.F. ILIOPOULOU	OP
23	SCE-P-49 <u>Franklin (Feng) TAO</u> - Catalytic conversion of methane to methanol and formic acid on singly dispersed palladium oxide species on internal surface of ZSM5; Co-authors: Weixin HUANG, Junjun SHAN, Anatoly I. FRENKEL	OP
24	SCE-P-50 <u>Mahendra K. SUNKARA</u> - Nanowire catalysts for ultra-deep desulfurization of fuels; Co-authors: Mayank GUPTA, Franz G. PETZOLD, Dania A. FONSECA	OP
25	SCE-P-51 <u>Matthew YUNG</u> - Effects of catalyst acidity on upgrading of biomass pyrolysis vapors; Co-authors: Chaiwat ENGTRAKUL, Calvin MUKARAKATE, Anne STARACE, Jessica OLSTAD	OP
26	SCE-P-52 <u>Cameron BODENSCHATZ</u> - A combined density functional theory and molecular dynamics approach for quantifying catalytic energies in water; Co-author: Rachel B. GETMAN	OP
27	SCE-P-53 <u>Julian BÄR</u> - Catalytic reforming of jet fuels over Rh/Al ₂ O ₃ ; Co-authors: Edimilson Jesus DE OLIVIERA, Olaf DEUTSCHMANN	OP
28	SCE-P-54 <u>Valérie CAPS</u> - Hydrogen-promoted oxidation over hydrophobic Au/FLG catalysts; Co-authors: F. VIGNERON, J.-M. NHUT, A. RACH, A. PIQUET, C. PHAM-HUU	OP
29	SCE-P-55 <u>Alessandro DONAZZI</u> - Electrochemical activity of co-precipitated LnBaCo ₂ O _{5+δ} (Ln = La, Y); Co-authors: R. PELOSATO, C. CRISTIANI, G. DOTELLI, M. MARIANI, I. NATALI SORA	OP
30	SCE-P-56 <u>Ruinian XU</u> - Catalytic combustion of acrylonitrile over 3d-transition metals (Cu, Co, Fe) or Pt/SBA-15, Cu/SBA-16 and Cu/KIT-6 mesoporous catalysts; Co-authors: Runduo ZHANG, Dongjun SHI, Ning LIU	OP

Board #	EMISSIONS CONTROL
33	EC-P-48 <u>Do Heui KIM</u> - Promoter effect of V ₂ O ₅ /TiO ₂ catalyst on deNO _x activity and N ₂ O formation in the selective catalytic reduction of NO with NH ₃ ; Co-authors: Seunghee YOUN, Jonghyun KIM, Soyeon JEONG, Sung June CHO
34	EC-P-49 <u>CANCELLED</u>
35	EC-P-50 <u>Alexandre GOGUET</u> - Close coupling of atmospheric pressure nonthermal plasma with a Ag/Al ₂ O ₃ catalyst for the selective catalytic reduction of NO _x at low temperature; Co-authors: Cristina E. STERE, Wameedh ADRESS, Robbie BURCH, Sarayute CHANSAL, Fabio DE ROSA, William G. GRAHAM, Christopher HARDACRE, Vincenzo PALMA

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Board #	EMISSIONS CONTROL (contd.)
36	EC-P-51 <u>Alexandre GOGUET</u> - On using spatially resolved techniques for the investigation of the H ₂ effect on the CO oxidation over monolithic catalysts; Co-authors: Cristina E. STERE, Alexandre GOGUET, Christopher HARDACRE, Jacinto SÁ, Daniel L. FERNANDES, William B. PARTRIDGE, Jonathan STEWART, R. DOUGLAS
37	EC-P-52 <u>Jae-Soon CHOI</u> - Impact of axial catalyst configuration on the performance of coupled LNT-SCR catalysts studied by spatiotemporal resolution of reactions; Co-authors: Mi-Young KIM, Mark CROCKER
39	EC-P-53 <u>Ruinian XU</u> - Co ₃ O ₄ with different morphologies for catalytic combustion of CO and CH ₄ and investigation the role of their diverse oxygen species with oxygen isotopes; Co-authors: Runduo ZHANG, Xiaodong WANG, Ning LIU, Dongjun SHI
40	EC-P-54 <u>Ruinian XU</u> - Effect of hard template's residues of the nanocasted mesoporous LaFeO ₃ perovskite with the extremely high surface areas on methyl chloride oxidation; Co-authors: Runduo ZHANG, Wenrui YUE, Ning LIU
41	EC-P-55 <u>Solène LE BRAS</u> - Catalytic performances of a meso-structured MgAl ₂ O ₄ supported catalyst: Comparison with a commercial DOC; Co-authors: F. ROSSIGNOL, T. CHARTIER, K. LOMBAERT, N. RAOUL, P. DEL GALLO
42	EC-P-56 <u>Junhua LI</u> - Reaction mechanism of selective catalytic reduction of NO with NH ₃ over Cu-exchanged SSZ-13; Co-authors: Wenkang SU, Huazhen CHANG, Yue PENG
43	EC-P-57 <u>Junhui (Jennifer) LI</u> - Anomalous behavior of NO oxidation over DOCs aged under laboratory and real-world conditions; Co-authors: Ashok KUMAR, Krishna KAMASAMUDRAM, Neal CURRIER, Aleksey YEZERETS
44	EC-P-58 <u>Jason LUPESCU</u> - Aging environment and lean redispersion effects on Pd catalysts; Co-authors: Johannes SCHWANK, Kevin DAHLBERG, Kevin RHODES
45	EC-P-59 <u>Xunhua MO</u> - An investigation on N chemistry of FCC; Co-authors: Bart DE GRAAF, Mehdi ALLAHVERDI, Paul DIDDAMS
46	EC-P-60 <u>Moon Hyeon KIM</u> - A commercial V ₂ O ₅ -WO ₃ /TiO ₂ catalyst for the reduction of NO by NH ₃ : Effect of its on-site-use and surface composition modifications on N ₂ O formation; Co-author: Hyo Sang LEE
47	EC-P-61 <u>Omid MOWLA</u> - Using N ₂ O for Oxidative Coupling of Methane (O.C.M) on Na ₂ WO ₄ Mn/SiO ₂ catalyst at different operating conditions; Co-authors: M. STOCKENHUBER, E. KENNEDY
48	EC-P-62 <u>Anuradha NAGARAJ</u> - Analysis of transport-kinetics interactions in complex commercial catalyst shapes for improved H ₂ SO ₄ manufacturing processes; Co-author: Patrick L. MILLS
50	EC-P-63 <u>Anuradha NAGARAJ</u> - H ₂ SO ₄ catalysis: perspective and opportunities for reducing SO ₂ emissions using particulate and monolith catalysts; Co-author: Patrick L. MILLS
49	EC-P-64 <u>Tomasz WILKOSZ</u> - Double oxidation of austenitic stainless steel foil as a method of the formation of monolithic catalyst for NO, N ₂ O and carbon particle emission abatement; Co-authors: M. NAJBAR, J. DUTKIEWICZ, E. BIELAŃSKA, A. WESEŁUCHA-BIRCZYŃSKA, J. CAMRA, L. LITYŃSKA-DOBRYŃSKA
51	EC-P-65 <u>Lioudmila NOSSOVA</u> - Black carbon oxidation activity of ceria nanoparticles doped with zirconium; Co-authors: G. CARAVAGGIO, A. POPESCU, A. MCKENZIE, M. STANCIULESCU

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Board #	EMISSIONS CONTROL (contd.)
52	EC-P-66 <u>Brian OLSEN</u> - Deactivation of SCR catalysts by potassium poisoning; Co-authors: Frauke KÜGLER, Francesco CASTELLINO, Anker D. JENSEN
53	EC-P-67 <u>Louise OLSSON</u> - Methane oxidation on bimetallic catalysts in the presence of NO; Co-authors: Nadezda SADOKHINA, Gudmund SMEDLER, Ulf NYLÉN, Maria HOLMSTRÖM
54	EC-P-69 <u>Gina PECCHI</u> - Soot oxidation on Ag substituted $\text{LaMn}_{0.9}\text{Co}_{0.1}\text{O}_{3.5}$ perovskites; Co-authors: Eduardo J. DELGADO, Robinson DINAMARCA
55	EC-P-70 <u>Małgorzata RUTKOWSKA</u> - Hierarchical porous ZSM-5 zeolites prepared using non-templating method as catalysts for DeNO_x processes; Co-authors: L. CHMIELARZ, Z. PIWOWARSKA
56	EC-P-71 <u>Małgorzata RUTKOWSKA</u> - Mesoporous ZSM-5 zeolites prepared by desilication as catalysts for synthesis of dimethyl ether; Co-authors: D. MACINA, L. CHMIELARZ, N. MIROCHA-KUBIEŃ
57	EC-P-72 <u>Ladislao SANDOVAL</u> - Thermal decomposition of guanidinium salts as alternative solid promoters of ammonia for selective catalytic reduction of NO_x ; Co-authors: Marco J. CASTALDI, Carlos J. LUCIO ORTIZ, Javier RIVERA DE LA ROSA
58	EC-P-73 <u>Petr SAZAMA</u> - From understanding of redox structures in Fe-zeolites to production of deNO_x catalysts; Co-authors: Z. SOBALIK, P. STASTNY, O. BORTNOVSKY, K. SVOBODA, M. FRONK, J. SRAMEK
59	EC-P-74 <u>Shanthakumar SITHAMBARAM</u> - Lowering gasoline sulfur in fluid catalytic cracking with additives: Bench-scale to commercialization; Co-authors: Mehdi ALLAHVERDI, Bart DE GRAAF, Paul DIDDAMS
60	EC-P-75 <u>Zdenek SOBALIK</u> - Iron-catalysts for abatement of nitrous oxide under demanding conditions; Co-authors: G. SADOVSKA, P. SAZAMA, Z. SOBALIK, J. JANOSCOVA
61	EC-P-76 <u>Stuart TAYLOR</u> - A study of the preparation conditions of Pt/SiO_2 catalysts for the total oxidation of naphthalene a model polyaromatic hydrocarbon; Co-authors: David R. SELICK, David J. MORGAN
62	EC-P-77 <u>CANCELLED</u>
63	EC-P-78 <u>Chao WANG</u> - Development of SSZ-13 based sulfur resistant NH_3 -SCR catalysts; Co-authors: Erdem SASMAZ, Jochen LAUTERBACH
64	EC-P-79 <u>CANCELLED</u>
65	EC-P-80 <u>Jihui WANG</u> - Effect of the calcination temperature on the performance of a CeMoO_x catalyst in the selective catalytic reduction of NO_x with ammonia; Co-author: Yongdan LI
66	EC-P-81 <u>Chao WANG</u> - An efficient heterostructured $\text{Ru/Co}_3(\text{PO}_4)_2$ -MCFs catalyst for catalytic oxidation of vinyl chloride and CO; Co-authors: Chengcheng TIAN, Yanglong GUO, Wangchen ZHAN, Yun GUO, Guanzhong LU
68	EC-P-82 <u>Chao XIE</u> - Impact of lubricant oil additives on the performance of three way catalysts; Co-authors: Todd J. TOOPS, Michael J. LANCE, Jun QU

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Board #	EMISSIONS CONTROL (contd.)	
69	EC-P-83 <u>Can NIU</u> - Effect of SO ₂ on vanadium-modified Fe/AC catalysts for the NH ₃ -SCR of NO _x at low temperatures; Co-authors: Weiwei YANG, Fudong LIU, Lijuan XIE, Zhihua LIAN, Hong HE	
70	EC-P-84 <u>Xuehua YU</u> - Preparation of three-dimensionally ordered macroporous SiO ₂ -supported nanoparticle KMnO _x catalysts for soot combustion; Co-authors: Yuechang WEI, Zhen ZHAO, Jian LIU, Baofang JIN, Aijun DUAN, Guiyuan JIANG, Jianme LI	
71	EC-P-85 <u>Albin PINTAR</u> - CuO supported on CeO ₂ materials as catalysts for degradation of N ₂ O emissions; Co-authors: Maxim ZABILSKIY, Petar DJINOVIĆ, Boštjan ERJAVEC	
72	EC-P-86 <u>CANCELLED</u>	
73	EC-P-87 <u>CANCELLED</u>	
74	EC-P-88 <u>Yusuke NARAKI</u> - Iron-substituted *BEA zeolite for reduction of NO with NH ₃ ; Co-authors: K. ARIGA, H. OGAWA	
75	EC-P-89 <u>Małgorzata RUTKOWSKA</u> - Mesopore - beta zeolites modified with Fe, Cu and Co: Preparation, characterization and catalytic activity in N ₂ O decomposition and selective reduction of NO with ammonia; Co-authors: L. CHMIELARZ, Z. PIWOWARSKA, C. VAN OERS, P. COOL	OP
76	EC-P-90 <u>François BATLLO</u> - Customized precursors for catalyst synthesis; Co-author: Kim M. LONG	OP
77	EC-P-91 <u>Stefanie TAMM</u> - Silver as storage compound for NO _x at low temperatures; Co-authors: Stanislava ANDONOVA, Louise OLSSON	OP
78	EC-P-92 <u>Jinyong LUO</u> - Identification of two types of Cu sites and their unique responses to hydrothermal aging and sulfur poisoning; Co-authors: Di WANG, Ashok KUMAR, Krishna KAMASAMUDRAM, Neal CURRIER, Aleksey YEZERETS	OP
79	EC-P-93 <u>Cyril THOMAS</u> - Insights into the influence of the Ag loading on Al ₂ O ₃ in the H ₂ -assisted C ₃ H ₆ -SCR of NO _x : a kinetic study; Co-authors: T. CHAIEB, L. DELANNOY, G. COSTENTIN, C. LOUIS	OP
80	EC-P-94 <u>Sibo WANG</u> - 3D perovskite/metal oxide composite nanorod array based monolithic catalysts for automotive emission control; Co-authors: Zheng REN, Yanbing GUO, Pu-Xian GAO	OP
81	EC-P-95 <u>Kurnia WIJAYANTI</u> - Impact of sulfur oxides on catalytic functions of Cu-SAPO-34; Co-authors: S. ANDONOVA, A. KUMAR, J. LI, K. KAMASAMUDRAM, N.W. CURRIER, A. YEZERETS, L. OLSSON	OP
82	EC-P-96 <u>Huazhen CHANG</u> - A novel mechanism for poisoning of metal oxides SCR catalyst: base-acid explanation correlated with redox property; Co-authors: Yuankai SHAO, Wenkang SU, Jiming HAO, Junhua LI	OP
83	EC-P-97 <u>Cyril THOMAS</u> - On the origin of the optimum loading of Ag on Al ₂ O ₃ in the C ₃ H ₆ -SCR of NO _x ; Co-authors: T. CHAIEB, L. DELANNOY, C. LOUIS	OP
84	EC-P-98 <u>Yaying JI</u> - Al ₂ O ₃ -based passive NO _x adsorbers for low temperature applications; Co-author: Mark CROCKER	OP

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Board #	WATER TREATMENT	
87	WT-P-07 <u>Leon LEFFERTS</u> - Mechanism of nitrite hydrogenation based on ATR-IR spectroscopy; Co-authors: Koteswara Rao NIDADAVOLU, Barbara L. MOJET	
88	WT-P-08 <u>Shailesh SABLE</u> - Degradation and mineralization of organic pollutants by Advanced Oxidation Processes (AOPs) using Cu-based catalysts; Co-authors: P.P. GHUTE, R.B. MANE, F. MEDINA, C.V. RODE, S. CONTRERAS	
89	WT-P-09 <u>CANCELLED</u>	
90	WT-P-10 <u>Yongbing XIE</u> - The influence of surface basic sites to the reaction pathways in AC enhanced ozonation of oxalate; Co-authors: Linlin XING, Hongbin CAO	OP
91	WT-P-11 <u>Johannes SCHWANK</u> - Adsorption and photocatalytic degradation of MB over TiO ₂ nanotubes: Influence of hydrothermal synthesis temperature; Co-authors: Nan LIU, Xiaoyin CHEN, Jinli ZHANG	OP
92	WT-P-12 <u>Halema AL-KANDARI</u> - Photocatalytic degradation of phenolic compounds; Co-authors: A.M. ABDULLAH, A.M. MOHAMED, S. AL-KANDARI	OP
93	WT-P-13 <u>Pallavi GHUTE</u> - Photo-catalytic degradation of emerging pharmaceutical pollutants using bimetallic Pd-magnetite nanoparticles; Co-authors: Francisco MEDINA, Giuseppe MASCOLO, Sandra CONTRERAS	OP

Board #	GREEN CHEMISTRY	
95	GC-P-21 <u>Hisaki KONDOH</u> - Catalytic cracking of heavy oil over TiO ₂ -ZrO ₂ catalyst under a superheated steam; Co-authors: Kumiko TANAKA, Yuma TAKEDA, Yuta NAKASAKA, Teruoki TAGO, Takao MASUDA	
96	GC-P-22 <u>Yasutaka KUWAHARA</u> - Conversion of levulinate esters to γ -valerolactone by catalytic transfer hydrogenation over supported ruthenium hydroxide catalysts; Co-authors: Wako KABURAGI, Tadahiro FUJITANI, Hiromi YAMASHITA	
97	GC-P-23 <u>Raul C. RIVAS</u> - Modeling and experimental validation of Free Fatty Acids (FFAs) removal from crude vegetable oils using fiber reactor technology; Co-authors: Cesar G. MORAN, Patrick MILLS	
98	GC-P-24 <u>Raul C. RIVAS</u> - Production of galacturonic acid from the enzymatic hydrolysis of citrus processing waste biomass; Co-authors: Kim D. JONES, Patrick MILLS	
99	GC-P-25 <u>Isabella NOVA</u> - An innovative technique for the sustainable production of pure nitric oxide; Co-authors: Amir Reza FAHAMI, Enrico TRONCONI	
100	GC-P-26 <u>Robert PACE</u> - Ionic liquids as green solvents: A selective approach to biomass fractionation and deconstruction; Co-authors: Michael CROCKER, Mark CROCKER, Mark MEIER, Samuel A. MORTON III, Andrew J. PLACIDO	
101	GC-P-27 <u>Bogdan SAMOJEDEN</u> - The characteristics of modified layered aluminosilicates as catalysts for VOC oxidation; Co-author: Monika MOTAK	
102	GC-P-28 <u>Thomas SHEPPARD</u> - A low temperature, isothermal gas-phase, catalytic system for conversion of methane to methanol over Cu-ZSM-5; Co-authors: Alex GOGUET, David W. ROONEY, Jillian M. THOMPSON	
103	GC-P-29 <u>Megumu INABA</u> - Metal-modified zeolite catalysts for production of phenolic compounds by fast pyrolysis of eucalyptus; Co-authors: Kazuhisa MURATA, Isao TAKAHARA, Yanyong LIU	

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Board #	GREEN CHEMISTRY (contd.)	
104	GC-P-30 <u>Hyoung Lim KOH</u> - Effect of Pt/Sn ratio and alumina phase on the propane dehydrogenation to propylene; Co-authors: Ga Hee KIM, Tae-Won KIM, Hea-kyung PARK, Chae-ho SHIN	
105	GC-P-31 <u>Teruoki TAGO</u> - Formation of hydrocarbon with C-C double bond from glycerol over iron-oxide based catalyst; Co-authors: Hirofumi SHITARA, Kazuhiro TERAJ, Yuta NAKASAKA, Takao MASUDA	
106	GC-P-32 <u>Agata ŹELAZNY</u> - Selective hydrogenolysis of glycerol to 1,2-propanediol on the catalysts containing Cu-Ag phase deposited on oxide supports (Al ₂ O ₃ , TiO ₂); Co-authors: Katarzyna SAMSON, Ryszard GRABOWSKI, Małgorzata RUGGIERO, Michał ŚLIWA, Agnieszka KORNAS, Dorota RUTKOWSKA-ŹBIK	
107	GC-P-33 <u>Víctor Gabriel BALDOVINO MEDRANO</u> (for Maryna KUZMINSKA) - Grafting of macroporous Si(HIPE) foams with acidic groups for heterogeneous catalysis of esterification; Co-authors: M. DEPARDIEU, E.M. GAIGNEAUX, R. BACKOV	OP
108	GC-P-34 <u>Víctor Gabriel BALDOVINO MEDRANO</u> (for Maryna KUZMINSKA) - "Green" synthesis of biolubricants catalyzed by ion-exchange resins; Co-author: E.M. GAIGNEAUX	OP
109	GC-P-35 <u>Yongdan LI</u> - One-pot catalytic conversion of kraft lignin into value added chemicals over molybdenum carbide catalysts; Co-author: Rui MA	OP
110	GC-P-36 <u>Girish SRINIVAS</u> - Homogeneous catalysts stabilized in ionic liquids for conversion of synthesis gas into fuel ethanol via homologation of methanol; Co-authors: Michael V. MUNDSCHAU, Jeffrey MARTIN, Steven C. GEBHARD	OP
111	GC-P-37 <u>Alexandre GOGUET</u> - Advances in selective hydrogenation of α,β -unsaturated aldehydes and ketones using porous manganese oxide (OMS-2) and platinum supported OMS-2 catalysts; Co-authors: H. MANYAR, B. YANG, H. DALY, R. MORGAN, K. MORGAN, P. HU, J. SZLACHETKO, J. SÁ, C. HARDACRE	OP
112	GC-P-38 <u>Ara KIM</u> - Selective CO ₂ methanation on Ru/TiO ₂ catalyst: unravelling the decisive role of the TiO ₂ crystal structure; Co-authors: Clément SANCHEZ, Damien P. DEBECKER, Capucine SASSOYE	OP