

10th Conference of the Federation of the European Zeolite Associations



28 JUNE \ 2 JULY 2026

NAPLES - ITALY
HOTEL ROYAL CONTINENTAL

SCIENTIFIC PROGRAMME

(Update: June 28th)

SCIENTIFIC PROGRAMME IN BRIEF

Day	Time	Auditorium (A)	Mirabilis A (M1)	Mirabilis B (M2)
Sunday, 28 June	14:00 - 15:30	REGISTRATION		
	15:30 - 16:00	OPENING CEREMONY		
	16:00 - 16:45	PLENARY LECTURE 1 BORDIGA		
	16:45 - 17:05	Coffee Break		
	17:05 - 18:05	Session_01_A Structural characterization	Session_02_M1 De-fossilization, CO ₂ handling and energy conversion/storage	
	18:10 - 19:10	Session_03_A Synthesis and post-synthesis modification	Session_04_M1 Environmental and bio-applications	
	19:45	WELCOME PARTY		
Monday, 29 June	08:30 - 09:15	PLENARY LECTURE 2 LIU		
	09:20 - 10:40	Session_05_A De-fossilization, CO ₂ handling and energy conversion/storage	Session_06_M1 Modelling and computational approach	Session_07_M2 Adsorption and separation
	10:40 - 11:00	Coffee Break		
	11:00 - 12:00	Session_08_A Synthesis and post-synthesis modification	Session_09_M1 Natural zeolites	Session_10_M2 New challenges for zeolite science
	12:05 - 13:25	Session_11_A Synthesis and post-synthesis modification	Session_12_M1 Adsorption and separation	Session_13_M2 De-fossilization, CO ₂ handling and energy conversion/storage
	13:25 - 15:20	Free Time		
	15:20 - 15:50	KEYNOTE LECTURE YOKOI	Session_15_M1 Environmental and bio-applications	Session_16_M2 Modelling and computational approach
	15:50 - 16:20	Session_14_A Synthesis and post-synthesis modification		
	16:20 - 16:40	Coffee Break		
	16:40 - 18:10	Session_17_A Adsorption and separation	Session_18_M1 De-fossilization, CO ₂ handling and energy conversion/storage	Session_19_M2 Synthesis and post-synthesis modification
	18:10 - 19:30	POSTER SESSION 1		

SCIENTIFIC PROGRAMME IN BRIEF

Day	Time	Auditorium (A)	Mirabilis A (M1)	Mirabilis B (M2)
Tues day, 30 June	08:30 - 09:15	PLENARY LECTURE 3 VALTCHEV		
	09:20 - 10:40	Session_20_A Synthesis and post-synthesis modification	Session_21_M1 Environmental and bio-applications	Session_22_M2 Modelling and computational approach
	10:40 - 11:00	Coffee Break		
	11:00 - 12:20	Session_23_A Synthesis and post-synthesis modification	Session_24_M1 Adsorption and separation	Session_25_M2 De-fossilization, CO ₂ handling and energy conversion/storage
	12:25 - 13:25	Session_26_A New challenges for zeolite science	Session_27_M1 Modelling and computational approach	Session_28_M2 Synthesis and post-synthesis modification
	13:25 - 15:20	Free Time		
	15:20 - 15:50	KEYNOTE LECTURE REY	Session_30_M1 De-fossilization, CO ₂ handling and energy conversion/storage	Session_31_M2 Synthesis and post-synthesis modification
	15:50 - 16:20	Session_29_A Structural characterization		
	16:20 - 16:40	Coffee Break		
	16:40 - 18:10	Session_32_A Adsorption and separation	Session_33_M1 Synthesis and post-synthesis modification	Session_34_M2 New challenges for zeolite science
	18:10 - 19:30	POSTER SESSION 2		
	20:30	SOCIAL DINNER		



SCIENTIFIC PROGRAMME IN BRIEF

Day	Time	Auditorium (A)	Mirabilis A (M1)	Mirabilis B (M2)
Wed nesd ay, 1 July	08:30 - 09:15	PLENARY LECTURE 4 CAMETTI		
	09:20 - 10:40	Session_35_A Natural zeolites	Session_36_M1 Synthesis and post-synthesis modification	Session_37_M2 Structural characterization
	10:40 - 11:00	Coffee Break		
	11:00 - 11:30	KEYNOTE LECTURE OPANASENKO	Session_39_M1 Modelling and computational approach	Session_40_M2 Environmental and bio-applications
	11:30 - 12:00	Session_38_A De-fossilization, CO ₂ handling and energy conversion/storage		
	12:05 - 13:25	Session_41_A Structural characterization	Session_42_M1 De-fossilization, CO ₂ handling and energy conversion/storage	Session_43_M2 New challenges for zeolite science
	13:25 - 15:20	Free Time		
	15:20 - 15:50	KEYNOTE LECTURE CHOI	Session_45_M1 Synthesis and post-synthesis modification	Session_46_M2 Adsorption and separation
	15:50 - 16:20	Session_44_A De-fossilization, CO ₂ handling and energy conversion/storage		
	16:20 - 16:40	Coffee Break		
	16:40 - 18:20	Session_47_A Environmental and bio-applications	Session_48_M1 De-fossilization, CO ₂ handling and energy conversion/storage	Session_49_M2 Structural characterization
	18:30 - 19:30	FEZA GENERAL ASSEMBLY		
	20:30	GALA DINNER		
Thur sday, 2 July	08:30 - 09:15	PLENARY LECTURE 5 THOMMES		
	09:20 - 10:10	AWARD SESSION		
	10:10 - 10:30	Coffee Break		
	10:30 - 11:40	Session_50_A Adsorption and separation	Session_51_M1 Synthesis and post-synthesis modification	
	11:45 - 12:55	Session_52_A Structural characterization	Session_53_M1 De-fossilization, CO ₂ handling and energy conversion/storage	Session_54_M2 Synthesis and post-synthesis modification
	13:00 - 13:15	CONCLUDING REMARKS		

SCIENTIFIC PROGRAMME BY SESSIONS

Plenary Lecture 1 June 28 th Chair: S. Mintova (FR)			
Time	ID	Title	Authors
16:00 – 16:45	-	ZEOLITES AND MOFS FOR ENERGY TRANSITION AND AIR REMEDIATION	Silvia BORDIGA <i>University of Turin (IT)</i>

Session 01_A June 28 th Chair: G. Vayssilov (BG)			
Time	ID	Title	Authors
17:05 – 17:25	382	INFRARED SPECTROSCOPY GUIDES ZEOLITE DESIGN FOR SUSTAINABLE CARBON MANAGEMENT	<i>Y. Zhang, M. Shamzhy</i>
17:25 – 17:45	198	UNEXPECTED ION EXCHANGE BETWEEN NH ₄ ⁺ AND CU ^{II} IONS IN CU-CHA ZEOLITES UPON FORMATION OF THE [CU _{II} (NH ₃) ₄ O ₂] ²⁺ PEROXO COMPLEX	S. Magliocco , <i>R. K. Abasabadi, F. D'Amico, J. D. Bjerregaard, A. Yu. Molokova, H. Grönbeck, T. V.W. Janssens, G. Berlier</i>
17:45 – 18:05	33	PREDICTIVE DYNAMICAL MODELLING OF (ZEOLITIC) CATALYSTS VIA FLEXIBLE REACTIVE MACHINE LEARNING	<i>A. Erlebach, C. Bornes, D. Willmetz, C. Lei, R. Kendra, T. Benešová, I. Saha, C. J. Heard, L. Grajciar</i>

Session 02_M1 June 28 th Chair: G. Bonura (IT)			
Time	ID	Title	Authors
17:05 – 17:25	2	COBALTOSILICATE AND CHROMOSILICATE ZEOLITES AS EFFICIENT CATALYSTS FOR PROPANE DEHYDROGENATION	<i>H. Zhou, L. Wang, F.-S. Xiao</i>
17:25 – 17:45	18	METAL-ENCAPSULATED HOLLOW ZSM-5 ZEOLITES AS EFFICIENT CATALYSTS FOR TOLUENE HYDROGENATION IN LIQUID ORGANIC HYDROGEN CARRIER APPLICATIONS	C. Cipriano , <i>Y. Schuurman, N. Batalha</i>
17:45 – 18:05	21	DISTINCT EFFECTS OF HETEROATOM TYPES (FE AND AL) ON CATALYTIC PERFORMANCE WITHIN THE MFI TOPOLOGY	<i>A. Kurbanova, D. Zákatná, K. Gołqbek, J. Hraníček, A. I. Dugulan, P. Diddams, M.-F. Hsieh, N. Bats, J. Přeč</i>

Session 03_A June 28 th Chair: R. Simancas (JP)			
Time	ID	Title	Authors
18:10 – 18:30	44	KINETIC CONTROL AS A DESIGN PRINCIPLE IN ZEOLITE SYNTHESIS	J. García-Martínez
18:30 – 18:50	3	BINUCLEAR TI-FE SITES IN MFI FRAMEWORK FOR SYNERGISTICALLY CATALYSING ALKENE EPOXIDATION	D. Lin , <i>R. J. Lewis, G. J. Hutchings</i>
18:50 – 19:00	54	TUNING ACIDITY AND FLEXIBILITY OF BETA ZEOLITE THROUGH THE CONTROL OF WATER CONTENT IN SYNTHESIS MEDIUM	P. Demuth , <i>F. Dalena, E. Dib, S. Mintova</i>
19:00 – 19:10	307	SYNTHESIS AND FUNCTIONS OF SN AND FE METAL SITES IN INTERLAYER-EXPANDED MWW ZEOLITES	<i>T. Morii, N. Tsunoji, T. Moteki</i>

SCIENTIFIC PROGRAMME BY SESSIONS

Session 04_M1 June 28th Chair: S. Kegnæs (DK)

Time	ID	Title	Authors
18:10 – 18:30	7	DUAL-ACID MESOSTRUCTURED CELLULAR FOAMS AS EFFICIENT CATALYSTS FOR DIBENZOTHIOPHENE OXIDATION	A. Nurwita, K. Stawicka, A. Wojtaszek-Gurdak, M. Trejda
18:30 – 18:50	39	CATALYTIC PERFORMANCE OF CO-SSZ-39 IN CH ₄ -SCR	X. Meng , Y. Lai, F.-S. Xiao
18:50 – 19:10	62	HETEROINTERFACE ENGINEERING FOR SYNERGISTIC LOW-TEMPERATURE NO AND CO REMOVAL OVER COPPER-BASED ZEOLITE CATALYSTS	H. Wang , H. Guo, L. Luo, N. Geng, Y. Deng, Y. Guo, T. Zhu

Plenary Lecture 2 June 29th Chair: G. Centi (IT)

Time	ID	Title	Authors
08:30 – 09:15	-	METHANOL AND ITS COUPLING REACTIONS: FROM MECHANISM TO APPLICATIONS	Zhongmin LIU Dalian Institute of Chemical Physics (CN)

Session 05_A June 29th Chair: E. Tronconi (IT)

Time	ID	Title	Authors
09:20 – 09:40	61	AL-BASED MOFS FOR CARBON CAPTURE UNDER HUMID CONDITIONS	V. Kasneryk , F. Dietrich, M. Fischer, M. Hartmann Erlangen
09:40 – 10:00	65	ZEOLITE-TEMPLATED CARBON AS FUNCTIONAL FRAMEWORKS TO ENHANCE THE PERFORMANCE OF COPPER CATALYSTS DURING CO ₂ HYDROGENATION TO METHANOL	S. Todaro , G. Bonura, C. Cannilla, A. Cajumi, C. Corrente, M. Santoro, M. Samperi, D. Cozza, G. Giordano, M. Migliori, E. Catizzone
10:00 – 10:10	80	CO ₂ SEQUESTRATION VIA IL-FUNCTIONALIZED MESOPOROUS CATALYSTS: MACHINIST STUDY USING EXPERIMENTAL AND THEORETICAL APPROACH	S. Tank, M. Bandyopadhyay
10:10 – 10:20	115	CO ₂ -ASSISTED PROPANE DEHYDROGENATION OVER V-SILICALITE CATALYSTS: INFLUENCE OF SUPPORT AND REPETITIVE IMPREGNATION ON ACTIVE-PHASE SPECIATION	G. Pampararo , J. A. Mendoza Mesa, I. A. Khan, R. Zou, M. Dusselier
10:20 – 10:30	470	VALORIZATION OF OLIVE STONE VIA EX-SITU CATALYTIC FAST PYROLYSIS IN THE PRESENCE OF HZSM-5	B. Ciccone, A. Capasso , R. Migliaccio, A. Basco, P. Brachi, M. Urciuolo, G. Ruoppolo
10:30 – 10:40	480	TUNING THE CONTACT BETWEEN THE METALLIC AND ACIDIC PHASES IN A CATALYST FOR THE DIRECT HYDROGENATION OF CO ₂	P. Bruno , G. Ferrarelli, E. Giglio, E. Catizzone, G. Giordano, M. Migliori

Session 06_M1 June 29th Chair: G. Sastre (ES)

Time	ID	Title	Authors
09:20 – 09:40	26	CAPTURING PHARMACEUTICALS WITH HYDROPHOBIC ZEOLITES: FROM MOLECULAR SIMULATIONS TO REAL WASTEWATERS	J. Brauer, P. Mahdavi, J. Thöming, M. Fischer
09:40 – 10:00	49	INVESTIGATION AND MODELING OF MESOSCALE KINETIC MECHANISM OF COKING INDUCED DEACTIVATION OF ZEOLITE CATALYST IN MTP REACTION	Z. Liu , L. Li, Y. Wang, Z. Xie
10:00 – 10:20	178	CHEMOMETRIC ANALYSIS OF TS-1 SYNTHESSES USING PYTHON PROGRAMMING LANGUAGE	F. Rosso , H. S. Tabatabaeizadeh, A. Rizzetto, A. Airi, M. Signorile, S. Galliano, S. Bordiga, V. Corcellà, E. Alladio, F. Bonino

SCIENTIFIC PROGRAMME BY SESSIONS

Session 07_M2 June 29th Chair: P. Cool (BE)

Time	ID	Title	Authors
09:20 – 09:40	37	ACCELERATING ZEOLITE MATERIALS DISCOVERY THROUGH ADVANCED ELECTRON DIFFRACTION TECHNIQUES	Y. Luo, W. Yang
09:40 – 10:00	48	THERMAL DEHYDRATION OF SRMG-LSX: INSIGHTS TOWARDS AIR SEPARATION	C. C. Howat, L. Liu, J. Choi, P. A. Webley, A. C. K. Yip
10:00 – 10:20	93	STRUCTURE-PROPERTY RELATIONSHIPS OF ZEOLITE-BASED POROUS LIQUIDS FOR GAS CAPTURE	T.M. Nenoff, M. J. Hurlock, L. Lu, C. Huang, J. D. Rimer, R. P. Lively, J. M. Rimsza
10:20 – 10:40	132	MULTICOMPONENT ADSORPTION IN NANOPOROUS MATERIALS VIA A TEMPERATURE-INDUCED DESORPTION APPROACH	N. Chanut, J. Fernandes, R. Van Loenhout, R. Ameloot

Session 08_A June 29th Chair: T. Wakihara (JP)

Time	ID	Title	Authors
11:00 – 11:25	502	INTERMEDIATE PHASE SELECTIVITY IN ZSM-5 SYNTHESIS AND FRAMEWORK AL DISTRIBUTION	S.-B. Hong (Invited Speaker)
11:25 – 11:45	67	ENZYME-LIKE ASYMMETRIC CATALYTIC ACTIVITY OF GTM CHIRAL ZEOLITE CATALYSTS UPON PREACTIVATION OF GERMANIUM SITES	R. de la Serna, J. Jurado-Sánchez, C. Márquez-Álvarez, M. A. Molina, L. Costley-Wood, A. M. Beale, D. Gianolio, J. Pérez-Pariente, L. Gómez-Hortigüela
11:45 – 11:55	29	COPPER PHTHALOCYANINES AS PRECURSORS FOR CU-ZSM-5 ZEOLITES FOR DIRECT OXIDATION OF METHANE TO METHANOL IN LIQUID-PHASE	L. Gallego-Villada, S. Pätzsch, P. Mäki-Arvela, K. Eränen, P. Virtanen, A. Efimov, N. Kumar, A. Peuronen, M. Lastusaari, D. Yu. Murzin

Session 09_M1 June 29th Chair: Y. Lee (KR)

Time	ID	Title	Authors
11:00 – 11:20	110	THE ROLE OF TEMPERATURE ON THE PRESSURE-MEDIATED ADSORPTION IN NATURAL ZEOLITES: THE CASE OF LAUMONTITE AND HEULANDITE	D. Comboni, P. Lotti, G.D Gatta, L. Chiappella, S. Gemelli, G. Garbarino
11:20 – 11:40	308	ZEOLITE IN THE 50-YEAR-OLD TUFF FROM SURTSEY (ICELAND)	G. Montesano, C. Rispoli, P. Petrosino, G.D. Gatta, D. Comboni, P. Cappelletti
11:40 – 11:50	150	NATURAL CHABAZITE-RICH ZEOLITIC TUFF FOR AMMONIUM UPTAKE FROM ANAEROBIC DIGESTATES	M. Alberghini, G. Galamini, B. Faccini, G. Ferretti
11:50 -12:00	28	CONFINED PRECIPITATION AND MULTI-SCALE VEIN GROWTH OF MN-RICH PHASES INSIDE CHEMICALLY MODIFIED NATURAL ZEOLITE: CLOGGING AND PERFORMANCE LOSS	B.F.P. de Azevedo, E. Mugnaioli

SCIENTIFIC PROGRAMME BY SESSIONS

Session 10_M2

June 29th

Chair: J. García-Martínez (ES)

Time	ID	Title	Authors
11:00 – 11:20	24	ANISOTROPIC FRAMEWORK FLEXIBILITY IN H-ZSM-5 NANOZEOLITES DURING ETHANOL DEHYDRATION	G.B. Báfero , L.M. Manente, A.L.P. Morales, C.A. Ospina, J. Zhao, M.M. Silva, A. Rochet, F. Meneau
11:20 – 11:40	136	INSIGHTS INTO ASSEMBLY OF ZEOLITES: MONITORING STANNOSILICATE CRYSTALLIZATION BY IN SITU XAS	G. Ivanushkin , A. Bugaev, M. Dusselier
11:40 – 12:00	139	FCC CATALYSTS FOR PLASTIC CHEMICAL RECYCLING	O. Rogala, K.A. Tarach, L. Lakiss, J.-P. Gilson, Y. Shu, K. Góra-Marek

Session 11_A

June 29th

Chair: R. Bell (GB)

Time	ID	Title	Authors
12:05 – 12:30	RRR01	ALUMINOSILICATE ZEOLITE CIT-15 AND CATALYTIC APPLICATIONS	S.I. Zones, F. Alshifal, C. Lew, C.Y. Chen, M.E. Davis (Invited Speaker)
12:30 – 12:50	78	FORMATION OF NANOSTRUCTURED CU AND NI SI-MFI ZEOLITES FOR BIOETHANOL UPGRADING	J. Bedward , R. Taylor
12:50 – 13:10	107	NOVEL STRUCTURE DIRECTION USING ZINC WITH A DUAL ROLE AS AMINE COORDINATOR AND SILOXY CONNECTOR: TWO NOVEL ZEOLITE FRAMEWORKS	J. Bae, L. B. McCusker, J. Lyu, X. Zou, M. Dusselier

Session 12_M1

June 29th

Chair: T. Nenoff (US)

Time	ID	Title	Authors
12:05 – 12:25	164	FROM EQUILIBRIUM TO DYNAMICS: BENCHMARKING THE CO ₂ CAPTURE PERFORMANCE OF ZMQ-1	P. Al Azzi , M. Fahda, E. B. Clatworthy, R. Guillet-Nicolas, P. Lu, V. Valtchev
12:25 – 12:45	165	BA-EXCHANGED GISMONDINE FOR CAPTURE OF TRACE CARBON DIOXIDE	J. Al atrach , A. Aitblal, E. B. Clatworthy, A. Amedlous, V. Valtchev
12:45 – 13:05	194	HIERARCHICAL ZEOLITES: A SYSTEMATIC INVESTIGATION OF STRUCTURE AND POROSITY EFFECTS ON ACIDITY AND TRANSITION METAL ION UPTAKE	G. Ancora , F. Morari, J. C. F. P. Brito, L. Marchese, C. Bisio, E. Gianotti
13:05 – 13:25	209	SHAPING MICROPOROUS MATERIALS FOR REAL-WORLD APPLICATIONS: HOW 3D PRINTING GOVERNS CO ₂ ADSORPTION IN ZEOLITES AND MOFs	M. Cavallo, M. D'Agostini, N. Porcaro, P. Colombo, F. Bonino, M. Taddei, G. Franchin, V. Crocellà

Session 13_M2

June 29th

Chair: X. Meng (CN)

Time	ID	Title	Authors
12:05 – 12:25	69	SOLVENT EFFECTS AND ACID SITE PROXIMITY IN ZEOLITE-CATALYZED GLUCOSE CONVERSION TO 5-HMF	T.P.A. Vu , G. Pirngruber, K. Larmier
12:25 – 12:45	100	CONSTRUCTION OF ZEOLITE FRAMEWORK-ANCHORED RH-(O-ZN) _x SITES FOR ETHYLENE HYDROFORMYLATION	H.C. Hu, L. Qi , P. Tian, Z.M. Liu
12:45 – 13:05	225	SELECTIVE METHYLATION OF ETHYLENE TO PROPYLENE WITHIN THE CONFINED SIDE POCKETS OF MORDENITE ZEOLITE	S. Liu, D. Cheng, D. Fan, N. Chen, P. Tian , Z. Liu
13:05 – 13:25	234	SHAPE-SELECTIVE ZEOLITES FOR TANDEM CO ₂ HYDROGENATION-CARBONYLATION REACTIONS	H. Van Dessel , J. Dedapper, S. Van Minnebruggen, P. Paciok, O. Usoltsev, A. Krajnc, A. Bugaev, D.E. De Vos

SCIENTIFIC PROGRAMME BY SESSIONS

Session 14_A June 29th Chair: R. Gläser (DE)

Time	ID	Title	Authors
15:20 - 15:50	-	ZEOLITE BLENDING: A NEW APPROACH TO DIRECT CRYSTALLIZATION OF ALUMINOSILICATE ZEOLITE	Toshiyuki YOKOI KEYNOTE LECTURE
15:50 – 16:10	124	IN-SITU MONITORING OF METAL-ORGANIC FRAMEWORK SYNTHESIS VIA ULTRASOUND MONITORING	R. E. Reber, L. Rupprecht, M. Fischer, M. Hartmann Erlangen
16:10 – 16:20	45	HIGH-QUALITY TS-1 ZEOLITES WITH LARGE EXTERNAL SURFACE AREA DERIVED FROM TI-SI POLYMERS FOR ENHANCED OXIDATION CATALYSIS	J. Xing, D. Yuan, X. Wu, Y. Xu, Z. Liu

Session 15_M1 June 29th Chair: P. Pescarmona (NL)

Time	ID	Title	Authors
15:20 - 15:40	71	HYDROCRACKING PLASTIC PYROLYSIS WAX TO STEAM CRACKER FEEDSTOCK	E. Mäkelä, I. Crespo Briones, F. Siddiq, N. Heikkinen, J. Lahtinen, J. Lehtonen
15:40 – 16:00	155	UNCOVERING THE POTENTIAL OF GALLIUM IN FURFURAL CONVERSION TO VALUABLE PRODUCTS: IMPACT OF ZRO ₂ MODIFICATION AND CATALYST MORPHOLOGY	G. Pérez-Martín, J. Cueto, B. Fodor, M.M. Alonso-Doncel, M. Paniagua, P. Horcajada, J. A. Melero, G. Morales, D.P. Serrano
16:00 – 16:20	214	PRODUCTION OF SUSTAINABLE AVIATION FUELS BY HYDRODEOXYGENATION OF ALDOL CONDENSATION PRODUCTS ON ZEOLITES	O. V. Yevdokimova, A. Adam, I. L. Simakova, K. Eränen, P. Mäki-Arvela, D. Yu. Murzin

Session 16_M2 June 29th Chair: K. Hadjiivanov (BG)

Time	ID	Title	Authors
15:20 - 15:40	199	INSIGHTS ON THE FEASIBILITY OF ALUMINOSILICATE STF AND IFR ZEOLITES IN HYDROXIDE MEDIA. LESSONS FROM FAILED SYNTHESIS ATTEMPTS COMPUTATIONALLY GUIDED	Ö. F. Altundal, M. Galvez-Llompard, A. Cantin, J. Valero, S. Valencia, F. Rey, K. C. Kemp, S. B. Hong, F. Daeyaert, G. Sastre
15:40 – 16:00	374	DIRECT N ₂ O DECOMPOSITION WITH CU-SSZ-13/CU-CHA CATALYSTS: ACTIVE SITES AND REACTION MECHANISMS	M. Ródenas, R. Millán, M. Boronat
16:00 – 16:20	397	STRUCTURE OF PHOSPHOROUS RESIDUES IN ZEOLITES ON THE EXAMPLE OF ZMQ-1 MESOPOROUS ZEOLITE - DENSITY FUNCTIONAL MODELING	G. N. Vayssilov, P. St. Petkov, M. Fahda, V. Valtchev

Session 17_A June 29th Chair: H. Guo (CN)

Time	ID	Title	Authors
16:40 – 17:00	213	CO/N ₂ ADSORPTION SEPARATION ON BA-ETS-4: EQUILIBRIUM, KINETICS, AND BINARY BREAKTHROUGH BENCHMARKING AGAINST ZEOLITES 5A AND 13X	S. Saadat, H. Maghsoudi, J.F.M. Denayer
17:00 – 17:20	228	OPTIMIZATION OF WATER ADSORPTION CAPACITY FOR SORPTION ENHANCED REACTION PROCESSES	J.A.Z. Pieterse, G.D. Elzinga, S. Valencia, F. Rey
17:20 – 17:40	285	CAGE AND WINDOW EFFECTS BEYOND N-ALKANES: DIFFUSION ANOMALIES IN SI-CHA	J. K. X. Pham Van, A. Watfa, N. De Witte, S. Robijns, J. F. M. Denayer, M. Dusselier, T. R. C. Van Assche
17:40 – 18:00	298	TOWARD EFFICIENT RADON CAPTURE IN FERRIERITE ZEOLITES: A COMBINED COMPUTATIONAL AND EXPERIMENTAL STUDY	E. B. Zerifi, H. Tedjiti, T. Ors, J.-L. Paillaud, P. Sonnet, J. Busto, I. Deroche
18:00 – 18:10	8	BINDER JETTING 3D PRINTING OF MONOLITHIC ZEOLITES	F. Khan, G. Taggart, M. Arman, K. Festus, H. Zhang, H. Zhou, Z. Pei, C. Ma

SCIENTIFIC PROGRAMME BY SESSIONS

Session 18_M1

June 29th

Chair: P. Wright (GB)

Time	ID	Title	Authors
16:40 – 17:00	262	STEAMED AEI ZEOLITES FOR ENHANCED LIGHT OLEFIN SELECTIVITY IN TANDEM CARBON DIOXIDE CONVERSION TO LIGHT OLEFINS: ROLE OF ZEOLITE ACIDITY AND PARTICLE SIZE	A. Sajid , J. Devos, S. Robijns, I. Khalil, M. Dusselier
17:00 – 17:20	279	PHOTOREDUCTION OF CO ₂ OVER VANADIUM-SUBSTITUTED ETS-10	M. Picinini, R. J. Passini, H. O. Pastore
17:20 – 17:40	283	ZEOLITE-ASSISTED CO ₂ TRANSFORMATION TO PRODUCE HIGH VALUE-ADDED PRODUCTS	H. Sun , Q. Feng, Y. Wang, Z. Yan
17:40 – 18:00	288	INFLUENCE OF ZSM-5 PROPERTIES ON ALKALI MIGRATION DURING CO ₂ HYDROGENATION OVER TANDEM IRON-ZEOLITE CATALYSTS	E. Corrao, R. Pirone, S. Bensaid, A. Martínez
18:00 – 18:10	345	OPTIMIZATION SYNTHESIS PROCEDURE AND CATALYTIC APPLICATION IN METHANE CRACKING OF B-ZTC	D. Cozza , E. Catizzzone, G. Giordano, M. Migliori

Session 19_M2

June 29th

Chair: Y. Kubota (JP)

Time	ID	Title	Authors
16:40 – 17:00	125	PORE-OPENING SIZE CONTROL BY CHEMICAL VAPOR DEPOSITION OF SILICA ON 12-RING YFI TYPE ZEOLITE FOR SHAPE SELECTIVE NAPHTHALENE RING METHYLATION	T. Mizumoto , R. Kato, M. Matsuo, Y. Moriwaki, T. Matsuda, N. Tsunoji, E. Tsuji, N. Katada
17:00 – 17:20	154	SECOND-GENERATION DENDRITIC MFI ZEOLITES: A VERSATILE PLATFORM FOR SUSTAINABLE CATALYTIC APPLICATIONS	M.M. Alonso-Doncel, L. Orban, B.P. Nicola, G. Gómez-Pozuelo, K. Bernardo-Gusmao, D.P. Serrano
17:20 – 17:40	161	CHA ZEOLITE PREPARED USING CESIUM HYDROXIDE AS A SINGLE MINERALIZING AGENT	R. S. Tapping, Y. Guo, A. M. Doyle, L. Tosheva
17:40 – 18:00	240	TWO-DIMENSIONAL METAL SILICATES DERIVED FROM BOROSILICATE MWW(P) AND THEIR CATALYTIC APPLICATIONS	J.Y. Chen, N.V. Lam, M.B. Park, H.-K. Min
18:00 – 18:10	56	HIERARCHICAL ZEOLITE-BASED CATALYSTS FOR ACCELERATING SUSTAINABLE BIOFUELS PRODUCTION	O. A. Petcuta , M. Balan, V. I. Parvulescu, S. M. Coman

Plenary Lecture 3

June 30th

Chair: M. Davis (US)

Time	ID	Title	Authors
08:30 – 09:15	-	BEYOND THE LIMITS OF MICROPOROSITY: THE EMERGENCE OF EXTRA-LARGE ZEOLITES IN SCIENCE AND TECHNOLOGY	Valentin VALTCHEV (FR) ENSICAEN, Université de Caen-CNRS (FR)

SCIENTIFIC PROGRAMME BY SESSIONS

Session 20_A June 30th Chair: F. Ribeiro (PT)

Time	ID	Title	Authors
09:20 – 09:40	250	MULTISCALE MODULATION OF ALUMINUM DISTRIBUTION IN ZEOLITES FOR CATALYSIS	Z. Qin , B. Wang, R. Zhang, Y. Shen, S. Moldovan, S. Asahina, E. Dib, X. Chen, H. Zhao, J. Wang, H. Liu, L. Pinard, Z. Yan, S. Mintova
09:40 – 10:00	252	CORE-SHELL SIMFI@HZSM-5 SYNTHESIS - A STRATEGY TO REDUCE HEAVY SIDE-PRODUCT IN THE ONE-POT FURFURAL CONVERSION	N. Pichot , M. Gonçalves, E.A. Urquieta-Gonzalez
10:00 – 10:20	260	ALKALI CATIONS MODIFY ZR-BETA LEWIS ACID SITE STRENGTH	J. Přech , J. Xie, M. Shamzhy, J. Čejka
10:20 -10:40	284	THE ROLE OF POLY-QUATERNARY AMMONIUM CATIONS IN ZEOLITE SYNTHESIS	Y. Du , M. Manoj, S. E. Ashbrook, P. A. Wright

Session 21_M1 June 30th Chair: G. Busca (IT)

Time	ID	Title	Authors
09:20 – 09:40	331	TRANSIENT RESPONSE METHODS FOR THE N ₂ O DECOMPOSITION OVER FE-CHA CATALYST: MECHANISM DISCRIMINATION	N. Usberti, A. Gjetja, M. E. Azzoni, I. Nova, E. Tronconi, R. Villamaina , V. Georgieva, L. Mantarosie, J. Collier
09:40 – 10:00	359	NOBLE METAL-FREE POROUS CUO-CEXZR1-XO ₂ CATALYSTS FOR EFFICIENT CATALYTIC COMBUSTION OF VOLATILE ORGANIC COMPOUNDS	W. Van Hoey, A. Rokicińska, I. Majewska, P. Kuśtrowski, P. Cool
10:00 – 10:20	390	IMPACT OF LEWIS ACID SITES ON THE CATALYST LIFETIME FOR METHANOL-TO-HYDROCARBONS OVER MG-DEALUMINATED BEA ZEOLITE	J. C. Navarro de Miguel , T. Li, J. N. Almeida, J. Ruiz-Martínez
10:20 -10:40	413	RAPID DETECTION AND REMOVAL OF DATE-RAPE DRUGS USING MOF-INTEGRATED FLUORESCENT COMPOSITES	K. Hyjek, G. Kurowski, A. Pajdak, Ł. Kuterasiński , S. Tomczyk, K. Jasińska, P. Szymaszek, J. Ortyl, P. Jeleń, M. Sitarz, W. Piskorz, P. J. Jodłowski

Session 22_M2 June 30th Chair: R. Arletti (IT)

Time	ID	Title	Authors
09:20 – 09:40	407	COMPUTATIONAL MODELLING OF ACID ZEOLITE-CATALYSED DIMETHYLNAPHTHALENE SYNTHESIS	O. Morris , I. Kowalec, M. Pera-Titus, C. R. A. Catlow
09:40 – 10:00	409	HIGH-THROUGHPUT SCREENING OF SOLID-SOLID INTERFACES IN ZEOLITE	K. Oishi , K. Muraoka, A. Nakayama
10:00 – 10:10	34	DYNAMIC GA SITES IN ZEOLITES FOR CO ₂ -HYDROCARBON COUPLING CONVERSION TO AROMATICS	J. Han , Y. Wei, Z. Liu
10:10 -10:20	103	HIGH-THROUGHPUT TRANSITION-STATE SEARCHES IN ZEOLITE NANOPORES WITH NEURAL NETWORK POTENTIALS	P. Ferri-Vicedo , A. J. Hoffman, A. Singhal, M. Steiner, X. Du, R. Gómez-Bombarelli
10:20 – 10:30	109	WATER ADSORPTION AT PAIRS OF BRØNSTED ACID SITES IN ZEOLITES	H. Windeck , D. Willmetz, A. Erlebach, C. J. Heard, L. Grajciar, F. Berger, J. Sauer
10:30 -10:40	128	ENERGY DESCRIPTOR BASED ON THE ENERGY OF TRANSITION FROM ALPHA-QUARTZ FOR ALL REGULAR ZEOLITE FRAMEWORKS	S. P. Gramatikov , D. Ma, Z. Wang, G. N. Vayssilov

SCIENTIFIC PROGRAMME BY SESSIONS

Session 23_A

June 30th

Chair: H. Aleksandrov (BG)

Time	ID	Title	Authors
11:00 – 11:20	118	IMPACT OF ALUMINIUM SITING IN DIFFERENT RING ENVIRONMENTS ON BRØNSTED ACIDITY AND CATALYTIC BEHAVIOUR OF NANOSIZED BETA ZEOLITES	F. Dalena , P. Demuth, J. Wu, E. Dib, S. Mintova
11:20 – 11:40	306	CONTROLLING ZEOLITE B CRYSTALLIZATION PATHWAYS BY COOPERATIVE STRUCTURE DIRECTION	M.- J. Mendoza-Castro , J. D. Rimer
11:40 – 12:00	353	ROLE OF HYDROSTATIC PRESSURE IN ZEOLITE SYNTHESIS: ACCELERATED CRYSTALLIZATION AND MORPHOLOGY CONTROL	R. Simancas , M. Sakakibara, R. Asayama, M. Katsuyama, M. Takemoto, Y. Yonezawa, T. Okubo, T. Wakihara
12:00 – 12:20	368	SYNTHESIS OF STA-30 ZEOLITE VIA ORGANIC STRUCTURE DIRECTING AGENT MODELLING AND SYNTHESIS GEL OPTIMISATION	S. Dib , P. A. Wright, A. Turrina, P. A. Cox

Session 24_M1

June 30th

Chair: L. Tosheva (GB)

Time	ID	Title	Authors
11:00 – 11:20	302	STRUCTURAL EVIDENCE OF CATIONIC-GATING BEHAVIOR ON CS- OFFRETITE IN CH ₄ AND N ₂ ADSORPTION	R. Wang, R. Arletti , E. B. Clatworthy, S. Ghosvami, R. Fantini, S. Mintova
11:20 – 11:40	332	STUDY OF METAL-ORGANIC FRAMEWORKS FOR H/D/T ISOTOPIC SEPARATION	M. Georgelin , I. Bezverkhyy, C. Zlotea, S. Le Caër, G. Mouchaham, S. Thiébaud, C. Serre
11:40 – 12:00	358	CONFINING DEEP EUTECTIC SOLVENT-LIGANDS INTO CARBON NANOPORES FOR EFFICIENT RARE EARTH ELEMENT RECOVERY	J. Kober , J. Florek, L. Sallfeldner, F. Kleitz
12:00 – 12:10	9	EFFICIENT OLEFIN/ALKANE SEPARATION VIA IN-SITU CYANO-TRANSFORMED METAL-ORGANIC FRAMEWORKS	C. He , B. Pilgrim
12:10 – 12:20	20	ESTIMATING EXPERIMENTAL AND SIMULATION UNCERTAINTY IN ADSORPTION IN METAL-ORGANIC FRAMEWORKS	C. McCready, K. Asif, R. Blaney , J. R. B. Gomes, A. J. Fletcher, M. Jorge

Session 25_M2

June 30th

Chair: E. A. Urquieta-Gonzalez (BR)

Time	ID	Title	Authors
11:00 – 11:20	311	ETHYLENE OLIGOMERIZATION OVER NICKEL-CONTAINING EMBRYONIC ZEOLITES	M. Álvarez , A. García de Fernando, M. Alonso-Doncel, P. Pizarro, D.P. Serrano
11:20 – 11:40	314	MOF-BASED COMPOSITES AS LI SOLID-LIKE IONIC CONDUCTORS	Y. Xu , V. Pimenta, C. Serre
11:40 – 12:00	319	PYROLYSIS AND CATALYTIC UPGRADE OF POLYETHYLENE INTO ESSENTIAL BASE OILS AND REFINED WAXES WITH ZEOLITE CATALYSIS	J. Van Waeyenberg, T. Van Vaerenbergh, E. Vervoort, B. Smeyers, J. Du, S. Valizadeh, M. Van Der Borgh, P. Goos, S. Sivanandan, S. A. Calderon, B. Lagrain, K. Van Cuyck, B. Sels
12:00 – 12:20	321	DISTINGUISHING BETWEEN SINGLE AND DUAL CO ₂ ADSORPTION SITES BY THE IR SPECTRA OF ADSORBED ¹³ C ¹⁶ O ¹⁸ O	N. Drenchev, K. Chakarova, M. Mihaylov, K. Hadjiivanov

SCIENTIFIC PROGRAMME BY SESSIONS

Session 26_A June 30th Chair: G. Giordano (IT)

Time	ID	Title	Authors
12:25 – 12:50	495	PROMISES AND REALITIES OF EXTRALARGE PORE ZEOLITES FOR FCC	<i>F. Torres, T. Navarro, S. Valencia, F. Rey, A. Corma (Invited Speaker)</i>
12:50 – 13:10	235	DECIPHERING THE FATES OF UWY ZEOLITES THROUGH POST-TREATMENT: STABILISATION, FUNCTIONALIZATION, AND TRANSFORMATION	<i>E. Shamma, Q. Yue, M. Opanasenko, M. Shamzhy</i>

Session 27_M1 June 30th Chair: L. Gómez-Hortigüela (ES)

Time	ID	Title	Authors
12:25 – 12:35	129	KNOWLEDGE-INFORMED DESIGN OF ORGANIC STRUCTURE-DIRECTING AGENTS FOR ZEOLITES USING GENERAL-PURPOSE PRETRAINED LARGE LANGUAGE MODELS	<i>S. Ito, K. Muraoka, A. Nakayama</i>
12:35 – 12:45	281	INVESTIGATING THE DIFFUSION BEHAVIORS IN SELF-PILLARED PENTASIL ZEOLITES VIA SINGLE-MOLECULE FLUORESCENCE MICROSCOPY	<i>Z. Zhao, Z. Liu</i>
12:45 – 12:55	330	LOW TEMPERATURE MECHANISM OF STANDARD NH ₃ -SCR OVER CU-CHA CATALYSTS: A DECOUPLED HALF-CYCLE APPROACH	<i>A. Gjetja, N. Usberti, G. Contaldo, C. Negri, M. Maestri, I. Nova, E. Tronconi</i>
12:55 – 13:05	381	MOBILITY OF SOLVATED CU ⁺ CATIONS IN CU-ZEOLITES PREDICTED BY MACHINE LEARNING ACCELERATED MOLECULAR DYNAMICS	<i>M. Ródenas, R. Millán, R. Gómez-Bombarelli, M. Boronat</i>
13:05 – 13:15	387	CONFINEMENT-CONTROLLED DIFFUSION AND REACTION-DIFFUSION ENTANGLEMENT OF OXYGENATES IN ZEOLITE-CATALYZED CO ₂ CONVERSION	<i>W. Chen, V. Van Speybroeck</i>
13:15 – 13:25	398	BRIDGING LITERATURE AND LAB DATA FOR ZEOLITE SYNTHESIS: TRANSFERRING HISTORICAL DATA TO LAB-SPECIFIC ML MODELS	<i>D.P. Costa, V. Costa, M. Dodin, P.F. Mendes, M.F. Ribeiro</i>

Session 28_M2 June 30th Chair: S. Inagaki (JP)

Time	ID	Title	Authors
12:25 – 12:45	388	IMPROVING THE EFFICIENCY OF MSE-TYPE ZEOLITE SYNTHESIS AND ENHANCING ITS CATALYTIC PERFORMANCE THROUGH MOLECULAR DESIGN OF ORGANIC STRUCTURE-DIRECTING AGENT	<i>S. Zhang, F. Takaoka, I. Saita, S. Inagaki, Y. Kubota</i>
12:45 – 13:05	424	ENGINEERING MAXIMALLY EXPOSED SINGLE-METAL CATION SITES IN HIERARCHICAL ZSM-5 ZEOLITE	<i>H. O. Mohamed, V. K. Velisoju, R. Khairova, P. Tolstova, S. A. F. Nastase, D. Trueba, N. Zambrano, M. A. Shafarifky, M. Ben Hassine, M. N. Hedhili, E. Abou-Hamad, S. Telalovic, T. Mitsudome, L. Cavallo, P. Castaño</i>
13:05 – 13:25	506	COMPREHENSIVE CHARACTERIZATION SOLUTION ON ADSORPTION SEPARATION	<i>N. Dong</i>

SCIENTIFIC PROGRAMME BY SESSIONS

Session 29_A June 30th Chair: H. Pastore (BR)

Time	ID	Title	Authors
15:20 – 15:50	-	REVEALING THE POTENTIAL OF ZEOLITES FOR ADSORPTION AND SEPARATION PROCESSES	Fernando REY KEYNOTE LECTURE
15:50 – 16:10	477	METAL-DOPED H-ZSM-5 FOR THE CONVERSION OF BIO-ETHANOL TO HYDROCARBONS	<i>E. Spennati, G. Busca, R. Millini, P. Riani, G. Garbarino</i>
16:10 – 16:20	133	SYNTHESIS OF NOVEL MEMBERS OF THE AL MIL-53 SOLID SOLUTION SERIES, ALFX(OH)1-X(BDC), DISPLAYING INCREMENTALLY MODIFIED FLEXING BEHAVIOUR AND HYDROPHOBICITY	T. Duddles , <i>R. Zhang, D. De Alwis Jayasinghe, M. Schröder, S. Yang, D. Lee, M. Attfield</i>

Session 30_M1 June 30th Chair: C. Marquez-Alvarez (ES)

Time	ID	Title	Authors
15:20 – 15:40	430	IMPROVED CATALYTIC PYROLYSIS OF POLYOLEFINS TO LIGHT OLEFINS VIA ENHANCED ACID SITE ACCESSIBILITY IN ZSM-5 ZEOLITES	<i>B. Smeyers, K. Vikanova, M. Aerts, J. Van Waeyenberg, T. Van Vaerenbergh, H. Van Leuven, A. Eschenbacher, O. Akin, R. J. Vargese, K. Van Geem, J. Cejka, B. Sels</i>
15:40 – 16:00	496	ZEOLITE CATALYSTS FOR SUSTAINABILITY APPLICATIONS	A. Petushkov , <i>N. Roeckel, H. Li, B. Moden</i>
16:00 – 16:20	498	HYDROXYL-ANCHORING STRATEGY FOR THE CONSTRUCTION OF HIGHLY DISPERSED CU-ZNO ACTIVE SITES FOR CO ₂ HYDROGENATION	H. Guo , <i>X. Meng, C. Wang</i>

Session 31_M2 June 30th Chair: J. Cejka (CZ)

Time	ID	Title	Authors
15:20 – 15:40	433	CONTROLLING MASS-TRANSPORT PROPERTIES AND DEFECTS IN ZEOLITES BY SECONDARY TREATMENT METHODS AND THEIR IMPACT ON CATALYTIC PERFORMANCE	K. Shilpa , <i>J. D. Rimer, U. Olsbye</i>
15:40 – 16:00	435	SN-BETA ZEOLITES PREPARED USING MESOPOROGENS FOR EFFICIENT PRODUCTION OF METHYL LACTATE FROM GLUCOSE	<i>M. Kurmach, S. Poliakov, O. Lytiuha, O. Shvets, N. Shcherban</i>
16:00 – 16:20	463	CHIRAL CATIONS FOR THE SYNTHESIS OF R- AND S- ENANTIOMORPHS OF ZEOLITE STW	<i>J. Valero, A. Cantín, J. L. Jordá, G. Sastre, A. L. Llamas-Saiz, F. Rey, S. Valencia</i>

SCIENTIFIC PROGRAMME BY SESSIONS

Session 32_A June 30th Chair: Z. Liu (CN)

Time	ID	Title	Authors
16:40 – 16:50	43	COMPARISON OF NATURAL AND SYNTHETIC SILVER ZEOLITES TOWARDS THE CAPTURE OF METHYL IODIDE UNDER SEVERE NUCLEAR ACCIDENT CONDITIONS	M. Chebbi , H. Houjeij, B. Azambre, C. Le Gall, P. Nerisson, L. Cantrel
16:50 – 17:00	64	OPTIMIZED PREPARATION OF ZEOLITE ADSORBENT FROM BLAST FURNACE SLAG FOR CO ₂ CAPTURE EVALUATION VIA VPSA PROCESS	S. He, T. Guo , W. Tian, N. Liu, N Geng, Y Guo, T Zhu
17:00 – 17:10	72	BINDER-FREE CONDUCTIVE MOF@CARBON COMPOSITE FOR IMPROVED THERMAL MANAGEMENT AND ELECTRIFIED REGENERATION IN INDUSTRIAL CO ₂ CAPTURE	S.K. Gebremariam , M. Hamieh, E. Elrassy, B. Abdul Hay, X. Py, T. Devic
17:10 – 17:20	86	WATER-MEDIATED CO ₂ CHEMISORPTION PATHWAYS IN CYCLODEXTRIN-BASED MOFS	T. Azizivahed, M. Willans, B. E. G. Lucier, E. Toswell, Z. Gan, I. Hung, G. Wu, Y. Huang
17:20 – 17:30	121	STRUCTURAL RIGIDITY INDUCED BY ZINC INTRODUCTION INTO THE MFI ZEOLITE FRAMEWORK LEADS TO STRONG VOC ADSORPTION	D. Honorato Piva , A. P. Kaleta, F. Dalena, T. Spanjersberg, J. E. F. S. Rodrigues, S. Ghojavand, M. Geloso, N. Spera, S. Mintova
17:30 – 17:40	138	SEPARATION OF LIGHT OLEFINS AND PARAFFINS USING A NOVEL MOF THROUGH REVERSE SELEVTIVITY	M. Najafi , N. Stock, J. F.M. Denayer
17:40 – 17:50	141	SODIUM POLY(HEPTAZINE IMIDE)-BASED ADSORBENTS FOR CO ₂ CAPTURE	P. Ouro , D. Pereira, M. Sardo, I. Krivtsov, I. Marin-Montesinos, L. Mafra, M. Ilkaeva
17:50 – 18:00	151	SYNTHETIC ZEOLITE NA-P1 MODIFIED WITH ALKYLAMMONIUM SURFACTANTS: STRUCTURE, SURFACE PROPERTIES AND SORPTIVE POTENTIAL TOWARD ORGANIC POLLUTANTS	T. Bajda , B. Muir, M. Pawlak, A. Saczka

Session 33_M1 June 30th Chair: A. Palcic (HR)

Time	ID	Title	Authors
16:40 – 17:00	467	MOF-808-BASED ADSORBENTS FOR WATER HARVESTING	C. Byrne , C. Hewson, P. Iacomì, N. Zabukovec Logar
17:00 – 17:10	77	FROM ZEOLITE PORES TO CARBON NANOSPACE: ZEOLITE-TEMPLATED CARBON AS A UNIVERSAL CONFINED CATALYST PLATFORM	P. Sazama , G. Sadovska, R. Pilar, J. Moravkova, N. Kostkova, D. Kaucky, A. Vondrova, S.F. Rastegar, I. Jirka, M. Bernauer, J. Pastvova
17:10 – 17:20	82	LIFE-CYCLE ASSESMENT OF ZSM-5 CATALYST OBTAINED FROM NATURAL MORDENITE FROM SPAIN	I. Arnaiz, K. El Jardali, C. Márquez-Álvarez, D. Iribarren, L. Presa, I. Díaz
17:20 – 17:30	90	CELLULOSE NANOCRYSTALS AS A GREEN TEMPLATE FOR SAPO-34 ZEOLITE SYNTHESIS IN THE MTO PROCESS	R. Al Hussami , G. Nasser, C. Duah, S. Walker, J. Kopyscinski
17:30 – 17:40	96	PRECISION PORE ENGINEERING IN POROUS TiO ₂ -SiO ₂ VIA DIOL MOLECULAR DIMENSIONS	X. Wu , J. Xing, Y. Xu, Z. Liu
17:40 – 17:50	116	EFFECT OF ZEOLITE STRUCTURE AND ACIDITY ON CATALYTIC HYDRODEOXYGENATION OF FATTY ACIDS	Y. Al-Lami , C. M. A. Parlett, X. Fan
17:50 – 18:00	462	SYNTHESIS OF ANALCIME AND NA-P ZEOLITE FROM TREATMENT SLUDGES AND BIOGENIC ROCKS	H. El Fadili , B. Haddouch, A.K. Yassinea, O. Erraji

SCIENTIFIC PROGRAMME BY SESSIONS

Session 34_M2

June 30th

Chair: M. Dusselier (BE)

Time	ID	Title	Authors
16:40 – 17:00	257	DISENTANGLING OXIDATIVE VS NON-OXIDATIVE BUTANE DEHYDROGENATION MECHANISMS OVER COPPER-EXCHANGED MORDENITE USING IN SITU 13C MAS NMR SPECTROSCOPY	D. M. Polyukhov , R. Verel, J. A. v. Bokhoven, V. L. Sushkevich
17:00 – 17:20	450	IN SITU FEMTOSECOND SPECTROSCOPY REVEALS THE CRITICAL ROLE OF WATER MOLECULES IN ZN-MFI PHOTOCATALYST	N. Al Hajjar, D. Piva, T. Roland, I. De Waele, S. Mintova, V. de Waele
17:20 – 17:30	19	EFFECT OF EXTRA-FRAMEWORK ALUMINUM ON THE HYDROGEN SPILLOVER-DRIVEN TOLUENE HYDROGENATION OVER HUSY ZEOLITES	C. Cipriano , Y. Schuurman, N. Batalha
17:30 – 17:40	42	VANADIUM-MODIFIED FERRIERITE ZEOLITES. ACTIVATION OF MOLECULAR OXYGEN.	M. Lemishka , D. Kaucky, A.-B. Shatan, I. Vasylenko, S. Sklenak, I. Jirka, K. Gurung, L. Palatinus, J. Dedecek
17:40 – 17:50	156	ZEOLITE TEMPLATE REMOVAL VIA LOW-TEMPERATURE OZONE OXIDATION: MECHANISMS AND FURTHER POSSIBILITIES	J. Devos, Y. Liu, S. Robijns , G. Ivanushkin, M. Dusselier
17:50 – 18:00	181	SELECTIVE ZEOLITE-CATALYSED ALCOHOL AMINATION	T. Van Giel , H. Van Dessel, S. Van Minnebruggen, D. De Vos
18:00 – 18:10	310	HOST-GUEST ZEOLITE-ORGANOCATION MATERIALS WITH ZERO THERMAL EXPANSION	J.-P. Falk de Campos, K. Ata, T. Mineva, J. Haines, B. Alonso

Plenary Lecture 4

July 1st

Chair: D. Gatta (IT)

Time	ID	Title	Authors
08:30 – 09:15	-	ACCURATE STRUCTURAL ANALYSIS TO UNDERSTAND ZEOLITES PROPERTIES	Georgia CAMETTI University of Bern (CH)

Session 35_A

July 1st

Chair: A. Langella (IT)

Time	ID	Title	Authors
09:20 – 09:45	327	THE EVOLUTIONARY PATHWAY OF SUPER-HYDRATION: FROM POROUS ZEOLITES TO LAYERED SUBDUCTION MINERALS	Y. Lee (Invited Speaker)
09:45 – 09:55	269	THE USE OF NEAPOLITAN YELLOW TUFF FOR THE RECOVERY AND VALORIZATION OF MARINE BIOWASTE. THE EMBRACE PROJECT	A. Langella, A. Bellino, F. De Nicola, M. De Sanctis, C. Di Iaconi, F. Izzo , M. Mercurio, M. Napoletano, E. Picariello, D. Baldantoni
09:55 – 10:05	276	ALTERATION OF ALKALINE ROCKS AND FORMATION OF ZEOLITE DEPOSITS - NEW EVIDENCE FROM MICRO XRF MAPPING	T.B. Weisenberger , S. Spürgin
10:05 – 10:15	278	EXPLORING THE ROLE OF ACID-MODIFIED AND NI-CO IMPREGNATED CHILEAN NATURAL ZEOLITE DURING CATALYTIC CO-HYDROLYSIS OF BIOMASS/PLASTICS	B. Puentes-Navarro, S. Alejandro-Martín , L. Azócar-Ulloa
10:15 – 10:25	304	ENHANCING ANION SELECTIVITY IN NATURAL CLINOPTILOLITE THROUGH IRON MODIFICATION FOR WATER REMEDIATION	L. Adami , F. Di Benedetto, A. Martucci
10:25 – 10:35	434	THE ROLE OF NATURAL ZEOLITE CLINOPTILOLITE PARTICLE SIZE IN TAILORING TPU COMPOSITE PERFORMANCE	N. Russo , M. Oliviero, G. C. Lama, F. Recupido, L. Verdolotti, B. Liguori

SCIENTIFIC PROGRAMME BY SESSIONS

Session 36_M1 July 1st Chair: M. Moliner (ES)

Time	ID	Title	Authors
09:20 – 09:30	144	NANOSIZED AL-RICH MFI ZEOLITE SYNTHESIZED BY ZEOLITE HYDROTHERMAL CONVERSION IN THE PRESENCE OF ZEOLITE NANOSHEET SEEDS	N. Tsunoji , T. W. M. Amen, T. Kitagawa
09:30 – 09:40	148	HYDROXYALKYLATION OF PHENOL WITH FORMALDEHYDE OVER 2D MWW-TYPE ZEOLITE CATALYSTS: THE EFFECT ON PERFORMANCE AND ISOMER DISTRIBUTION OF BISPHENOL F SYNTHESIS	T. T. K. Nguyen , Y. Lee, M. B. Park
09:40 – 09:50	149	EXPLORATION AND CONTROL OVER THE DEFECT STRUCTURE OF SSZ-13 ZEOLITES USING ALKALI CATIONS.	S. Robijns , J. Blaser, N. De Wittte, J.K. X. Pham Van, T. R. C. Van Assche, H. Koller, M. Dusselier
09:50 – 10:00	205	ACCELERATED SYNTHESIS OF TITANIUM-BETA ZEOLITE USING N-METHYL-2-PYRROLIDONE AND BETA SEEDS	H. S. Tabatabaeizadeh , F. Rosso, F. Bonino, S. Bordiga, V. Crocellà, M. A. Cambor, M. Signorile
10:00 – 10:10	224	SHAPING SSZ-13 ZEOLITE-METAL OXIDE ARCHITECTURES FOR EFFICIENT TANDEM CO ₂ CONVERSION TO LIGHT OLEFINS	N. C. M. Spera , G. Singh, K. Kappis, M. Borelli, A. Trunschke, Yu. V. Kolen'ko
10:10 – 10:20	264	STRATEGIES FOR INTEGRATING ZEOLITIC METAL-ORGANIC FRAMEWORKS INTO ZIF@ZNO HYBRIDS FOR METAL ION SENSING APPLICATIONS	M. Alfé , L. Cimino, D. Peckus, S. Račkauskas, M. Sahul, I. Tepliakova, R. Viter, V. Gargiulo
10:20 – 10:30	270	LOW-TEMPERATURE UV-ACCELERATED ZSM-5 ZEOLITE CRYSTALLIZATION	T.H.M. Spanjersberg , D.H. Piva, F. Dalena, S. Mintova
10:30 – 10:40	429	ZEOLITE-CONFINEMENT STRATEGIES AND NANOCLUSTER CATALYSTS FOR SUSTAINABLE BASE-CATALYZED TRANSFORMATIONS	B. Lerma-Berlanga , L. Martínez-Belenguer, A. Leyva-Pérez

Session 37_M2 July 1st Chair: E. Dib (FR)

Time	ID	Title	Authors
09:20 – 09:40	241	LOCATING FRAMEWORK ALUMINIUM IN ZSM-5 THROUGH COMPLEMENTARY DIFFRACTION TECHNIQUES	L. Bénariac-Doumal , D. Wardecki, M. Vidal, V. Paunovic, P. Rzepka
09:40 – 10:00	290	INTERGROWN FAU-CHA ZEOLITES WITH COUPLED ACCESSIBILITY AND CONFINEMENT FROM PARTIAL INTERZEOLITE TRANSFORMATION	J. Martínez-Ortigosa , O. Rogala, K. A. Tarach, M. Díaz-Lopez, N. Linares, K. Gora-Marek, J. García-Martínez
10:00 – 10:20	346	HOST-GUEST STRUCTURAL FEATURES OF TRIS (2,2'-BIPYRIDINE) COBALT (II) COMPLEX ENCAPSULATED IN ZEOLITE X REVEALED BY SINGLE-CRYSTAL XRD	H. Goto , K. Nishi
10:20 – 10:40	354	ELECTRON PTYCHOGRAPHY FOR VISUALIZING COMPLEX ZEOLITE STRUCTURES	D. Li, D. Pizarro, Q. Zhang, A. Turrina, M. Shannon, P. A. Wright, A. Mayoral

Session 38_A July 1st Chair: D. Serrano (ES)

Time	ID	Title	Authors
11:00 – 11:30	-	GE IN ZEOLITE CHEMISTRY: FRIEND OR FOE?	Maksym OPANASENKO KEYNOTE LECTURE
11:30 – 11:50	25	IRIDIUM/SILICALITE-1 CATALYST FOR THE SELECTIVE HYDROGENOLYSIS OF METHYLCYCLOPENTANE WITH EXCESS METHYLCYCLOHEXANE	S. Inagaki , K. Tokita, K. Kondo, Y. Kubota
11:50 – 12:00	52	A NOVEL ROUTE TO ALKYLATE BENZENE WITH ETHANE AND PROPANE YIELDING ETHYLBENZENE AND CUMENE OVER COPPER-CONTAINING MORDENITE	F. J. Dubray, Y.-H. Wang, M. Artsiusheuski, J. Guo, R. Verel, A. Kulkarni, J. A. van Bokhoven, V. L. Sushkevich

SCIENTIFIC PROGRAMME BY SESSIONS

Session 39_M1

July 1st

Chair: J. Přech (CZ)

Time	ID	Title	Authors
11:00 – 11:10	415	DFT MODELING OF ETHENE TRANSFORMATIONS AND CO OXIDATION ON TRANSITION METAL CATIONS AND CLUSTERS IN ZEOLITES	H. A. Aleksandrov , I. Z. Koleva, J. Szanyi, K. Khivantsev
11:10 – 11:20	446	ELUCIDATING THE LOCATION AND NATURE OF ACTIVE SITES IN ZEOLITES	O. Bengtsson , B. Slater, C.J. Heard, L. Grajciar, A. Erlebach, I. Saha
11:20 – 11:30	455	TUNING ZEOLITE ACIDITY FOR LIGHT OLEFIN DIFFUSION THROUGH MACHINE LEARNING SIMULATIONS	P. Cnudde , E. Redekop, U. Olsbye, V. Van Speybroeck
11:30 – 11:40	459	A NEW METHOD TO CHARACTERIZE THE POROSITY OF MATERIALS: DETAILED DESCRIPTION OF THE NANOPOROUS VOLUME, DEFINITION OF SPECIFIC SURFACES AND PREDICTION OF GAS ADSORPTION	A. Zoccante, V. Palumbo, M. D'Amore, F. Vallejos-Burgos, S. Brandani, E. Mangano, L. Marchese, M. Cossi
11:40 -11:50	472	UNVEILING THE STRUCTURAL FACTORS GOVERNING THE DIFFUSION OF ETHENE IN SMALL-PORE ZEOLITES THROUGH MACHINE LEARNING	J. Ping , K. Muraoka, Z. Liu, A. Nakayama

Session 40_M2

July 1st

Chair: A. Martinez (ES)

Time	ID	Title	Authors
11:00 – 11:10	32	BOOSTING PASSIVE NO _x ADSORPTION AND SELECTIVE LOW-TEMPERATURE AMMONIA OXIDATION BY TAILORING THE MICRO-ENVIRONMENT AND THE ARCHITECTURE OF ZEOLITES	X. Chen , G. Yang
11:10 – 11:20	55	ZEOLITES AS EFFICIENT AND COST-EFFECTIVE CATALYSTS FOR VANILLYL BUTYL ETHER SYNTHESIS	K. Veselá , P. Eliášová, J. Čejka
11:20 – 11:30	75	IMPACT OF CERIUM ON GASEOUS IODINE ADSORPTION USING UIO-66 METAL-ORGANIC FRAMEWORKS	P. Dabrowski , C. Volklinger, T. Loiseau, M. Hureau, A. Moissette
11:30 – 11:40	85	REMOVING DILUTE CH ₄ WITH CU-ZEOLITES: CONNECTING MOLECULAR LEVEL INSIGHT TO STEADY STATE CATALYSIS	M. Bols , J. Ma, D. Plessers, A. Heyer, E. Solomon, B. Sels
11:40 -11:50	92	DEVELOPMENT OF ZEOLITIC PEROVSKITE-BASED CATALYST FOR THE ELIMINATION OF POLLUTANTS SUCH AS VOC, CO AND PM EMITTED BY WOOD STOVES	L. Garin , C. Hiernaux, T. Barakat, B-L. Su
11:50 – 12:00	94	RESEARCH ON SSZ-16 ZEOLITE FOR DENOX OF VEHICAL EXHAUST IN CH ₄ -SCR AND PNA	Y. Lai , X. Meng, F-S. Xiao

Session 41_A

July 1st

Chair: L. Marchese (IT)

Time	ID	Title	Authors
12:05 – 12:25	363	ORDER AND DISORDER IN HOST-GUEST SILICALITE-1-OSDA ASSEMBLIES	S. Al-Nahari, K. Ata, J.-P. Falk de Campos, J. Haines, T. Mineva, B. Alonso
12:25 – 12:45	417	FROM STATIC TO DYNAMIC NMR TENSOR PREDICTION IN ZEOLITES UNDER OPERANDO CONDITIONS USING MACHINE LEARNING	C. Bornes , D. Willimetz, C. Lei, A. Erlebach, C. J. Heard, L. Grajciar
12:45 – 13:05	503	RIGAKU SOLUTIONS FOR QUANTITATIVE PHASE ANALYSIS OF ZEOLITES	O. Slipeniuk

SCIENTIFIC PROGRAMME BY SESSIONS

Session 42_M1 July 1st Chair: M. Di Serio (IT)

Time	ID	Title	Authors
12:05 – 12:15	76	ENGINEERING MORDENITE FOR SYNGAS/CO ₂ -TO-C ₂ ⁺ OXYGENATES VIA TANDEM CATALYSIS	D. Fan , S. Han, N. Chen, P. Tian, Z. Liu
12:15 – 12:25	83	DUAL-FUNCTION MATERIALS BASED ON METAL-PROMOTED OSDA-FREE Y-ZEOLITE FOR THE INTEGRATED CO ₂ CAPTURE AND SEQUENTIAL HYDROGENATION	G. Nasser , P. Bédard, Y. Kopyscinski
12:25 – 12:35	126	PRODUCTION OF VALUABLE PETROCHEMICALS FROM PLASTIC-DERIVED OIL FRACTIONS VIA CATALYTIC CRACKING OVER ZSM-5 BASED CATALYSTS	M. Alshammari , A. Akah, C. Hardacre, A. Garforth
12:35 – 12:45	127	ZEOLITE-CATALYSED SYNTHESIS OF NAPHTHALENE FROM STYRENE	G. Lomidze, L. Faba , S. Ordóñez
12:45 – 12:55	143	SOLVENT-FREE SYNTHESIS OF AMINE-GRAFTED POROUS SILICA FOR DIRECT AIR CAPTURE	N. Tsunoji , J. Li, M. Sadakane
12:55 – 13:05	157	GREEN LIQUEFIED FUEL GAS - SYNTHESIS & DEMONSTRATION OF A RENEWABLE LPG REPLACEMENT FUEL	S. Roberts, C. Eslick, J.V. Fletcher, S. Govender, H. Kotze, N. Luchters, J.C.Q. Fletcher
13:05 – 13:15	171	MGO-DRIVEN CH ₃ CL ACTIVATION OVER ZEOLITE: BALANCING ACID-BASE INTERPLAY FOR EFFICIENT LIGHT OLEFINS SYNTHESIS	S. Kwon , E. Lee, J. H. Heo, C. Kim, K. Na
13:15 – 13:25	427	WATER SORPTION BEHAVIOR OF NATURAL AND SYNTHETIC ZEOLITES FOR THERMOCHEMICAL HEAT STORAGE	S. Kaur , N. Greiner-Mai, A. Suresh, L. Ni, M. Oschatz, F. Scheffler, L. Wondraczek

Session 43_M2 July 1st Chair: F. Kleitz (AT)

Time	ID	Title	Authors
12:05 – 12:25	441	ADDRESSING PRINTABILITY CHALLENGES IN DIRECT INK WRITING OF ZEOLITES THROUGH RATIONAL INK OPTIMIZATION	E. Luzzi , M. Salzano de Luna, G. Filippone, D. Caputo, P. Aprea
12:25 – 12:35	210	BIFUNCTIONAL ACID-SITES WITHIN ORDERED CATALYSTS FOR THE PRODUCTION OF SAF VIA THE ISOBUTANOL-PATHWAY	C. Múgica , N. Viar, I. Aguirrezabal-Telleria, M. Jiménez-Ruiz, M. Moliner
12:35 – 12:45	229	ROLE OF PLATINUM ON SILICA-ALUMINA CATALYST PROPERTIES IN CONTROLLING PRODUCT DISTRIBUTION OF POLYETHYLENE HYDROCRACKING	L. Chen, C. Herr, V. Levacher, P. Wegener, R. Naumann d'Alnoncourt, M. Geske, M. Bender, F. Rosowski, M. Al-Naji
12:45 – 12:55	294	ULTRAFAST LASER SYNTHESIS OF ZEOLITES AND TITANIUM SUBSTITUTION	M. Hagverdiyev, M. M. Doğan, S. Galioglu
12:55 – 13:05	361	STUDYING COMPETING PHASES IN INORGANIC ZEOLITE SYNTHESIS USING A COMBINED X-RAY AND IMPEDANCE PLATFORM	D. Spira , A. Rais, D. Vandenabeele, E. Breynaert, C. E. A. Kirschock, B. Jakoby, N. Doppelhammer
13:05 – 13:15	438	A 3-TORUS QUOTIENT-SPACE AND PERSISTENT-HOMOLOGY FRAMEWORK TO QUANTIFY CHANNEL CIRCUITS AND CAGE VOIDS FROM ZEOLITE NETS AND ACCESSIBLE PORE SPACE	J. Álvarez-Rodríguez

SCIENTIFIC PROGRAMME BY SESSIONS

Session 44_A

July 1st

Chair: W. Schwieger (DE)

Time	ID	Title	Authors
15:20 – 15:50	-	DESIGN OF AMINE-CONTAINING NANOPOROUS MATERIALS FOR CO ₂ CAPTURE FROM ENGINEERING PERSPECTIVES	Minkee CHOI KEYNOTE LECTURE
15:50 – 16:00	180	COMPARATIVE STUDY OF THE ACIDITY OF ZEOLITES AND SULFATED TITANIA AND THEIR CATALYTIC ACTIVITY IN THE OBTAINING OF ADIPIC ACID FROM 2,5-TETRAHYDROFURAN DICARBOXYLIC ACID	O. Shvets , V. Honta, N. Romanovska, M. Kurmach, P. Yaremov, P. Manoryk, N. Shcherban
16:00 – 16:10	196	H-FER AS SELECTIVE ISOBUTANOL DEHYDRATION CATALYST: INSIGHTS FROM OPERANDO IR, CHEMOMETRICS AND KINETIC MODELLING	E. Vottero , R. Aboulayt, H. Ershadifarsani, A. Vimont, P. Bazin, K. Thomas, S. Maury, C. Chizallet, A. Traver
16:10 – 16:20	491	EXPLOITING CAPILLARY EFFECTS IN FE-MOFS FOR LIGHT ALKANE OXIDATION	M. Chiariotti , M. Gil-Calvo, I. Agirrezabal-Telleria

Session 45_M1

July 1st

Chair: I. Diaz (ES)

Time	ID	Title	Authors
15:20 – 15:30	271	MECHANOCHEMICAL SOLVENT SCREENING TOWARDS A GREEN SYNTHESIS OF ZIF-94 WITH CLOSED LOOP SOLVENT RECYCLING	A. Škrjanc , M. Švegovec, M. Opresnik, A. Krajnc, N. Zabukovec Logar
15:30 – 15:40	316	EXPLORATION OF SYNTHESIS STRATEGIES TOWARD HIGH SILICA SMALL-PORE LEV ZEOLITES	N. Urkude , S. Robijns, J. Bae, M. Dusselier
15:40 – 15:50	323	PHENYL-BASED DICATIONIC OSDAS FOR THE FLUORIDE-MEDIATED SYNTHESIS OF PURE SILICA MTW AND *STO ZEOLITES	A. V. Hilário, K. Bernardo-Gusmão , C. W. Lopes
15:50 – 16:00	328	EFFECT OF FRAMEWORK MODIFICATION OF MEL-TYPE ZEOLITES ON THE SYNTHESIS OF BENZENE, TOLUENE, AND XYLENE VIA METHANOL	M. Suzuki , T. Hayashi, M. Komuro, S. Harada, S. Fukasawa, S. Ito, S. Tada, K. Iyoki

Session 46_M2

July 1st

Chair: V. De Waele (FR)

Time	ID	Title	Authors
15:20 – 15:30	173	CO ₂ CAPTURE USING CALF-20/Γ-ALUMINA-BASED ADSORBENTS	D.F. Ramírez, M. Adnan, M. Ilkaeva , S. Ordóñez, E. Díaz
15:30 – 15:40	184	FUNCTIONALIZED MOF EMBEDDING IN SUSTAINABLE BIOPOLYMER MEMBRANES FOR SELECTIVE CO ₂ SEPARATION	D. Refaat, J. Amenakpor, J. Coronas, B. Zornoza
15:40 – 15:50	197	HYBRID EXCHANGE METHODS REGULATE CU ⁺ LOCATION ON CU-Y ZEOLITES AND IMPROVE CO ADSORPTION CAPACITY AND SELECTIVITY	D. Fan , S. Zhang, H. Wang, Y. Zhang, Y. Yang
15:50 – 16:00	200	A NOVEL STRATEGY TO PREPARE MECHANICALLY-STRONG BINDERLESS LTA ZEOLITE BEADS FOR CO ₂ ADSORPTION	T. Ge , P. P. Pescarmona
16:00 – 16:10	201	INVERSE GAS CHROMATOGRAPHY STUDY OF N- AND BRANCHED ALKANE ADSORPTION ON CAU-10-CH3	K. Karami , A. Padunnappattu, N. Stock, J. F.M. Denayer
16:10 – 16:20	204	INFLUENT PARAMETERS AND ADSORPTION MECHANISMS INVOLVED IN CH3I AND I2 CAPTURE BY SILVER ZEOLITES	B. Azambre , M. Chebbi

SCIENTIFIC PROGRAMME BY SESSIONS

Session 47_A

July 1st

Chair: W. Kleist (DE)

Time	ID	Title	Authors
16:40 – 16:50	146	BETA-TYPE TITANOALUMINOSILICATES SYNTHESIZED VIA AN INTERZEOLITE TRANSFORMATION AND THEIR CATALYTIC ACTIVITY IN GLUCOSE CONVERSION	J. S. Park , T. T. K. Nguyen, L. V. Nguyen, N. Y. Lee, O. S. Lim, M. B. Park
16:50 – 17:00	227	UPGRADING OF WASTE PLASTIC PYROLYSIS OIL OVER ZSM-5 ZEOLITES: DECHLORINATION AND AROMATIZATION PERFORMANCE	A. Pinto, L. Amodio, M. Kubů, P. Eliášová, M. M. Alonso-Doncel, P. Pizarro, K. Iyoki, T. Okubo, T. Amen, N. Tsunaji, J. Čejka, J. Cueto , D.P. Serrano
17:00 – 17:10	253	NOVEL ARYLINDANE DIOLS AS SUSTAINABLE PRIMARY ANTIOXIDANTS FROM LIGNIN	T. Hendrickx , L. Trullemans, A. J. Heyer, I. Boonen, M. Turkalj, F. Rammal, Y. Su, B. Matranxhi, D. Pully, B. Van Meerbeek, P. Van Puyvelde, M. Elskens, K. L. Van Landuyt, B. F. Sels
17:10 – 17:20	261	FROM METAL ORGANIC FRAMEWORKS TO SENSING MATERIALS FOR ENVIRONMENTAL AND BIOMEDICAL APPLICATIONS	V. Gargiulo , C. Clemente, L. Cimino, M. Alfé
17:20 – 17:30	312	HETEROATOM-DOPED ORDERED MESOPOROUS CARBONS: PROMISING MATERIALS FOR SUSTAINABLE VALORIZATION OF PHENOL	D. Chillè , G. Papanikolaou, P. Squillaci, C. Cannilla, S. Perathoner, G. Centi, P. Lanza fame
17:30 – 17:40	317	HYDROGENATION OF THE PYRIDINIUM ION: A KINETIC PROBE TO QUANTIFY HYDROGEN SPILLOVER OVER PT-ZEOLITE CATALYSTS	M. El Zayed, R. Vallee , P. Bazin, M. Barreau, L. Pinard
17:40 – 17:50	341	H,Y-ZEOLITE AS A CATALYST FOR THE KETALIZATION OF ETHYL LEVULINATE WITH GLYCEROL	V. Russo , F. Taddeo, M. Di Serio
17:50 – 18:00	360	TAILORING ACTIVITY OF COBALT SPINEL PHASE IN CATALYTIC COMBUSTION OF TOLUENE BY DEPOSITION ON SILICA SUPPORT WITH CONTROLLED MESOPOROUS ARCHITECTURE AND PARTICLE MORPHOLOGY	A. Rokicińska , B. Mozgawa, R. Sadowski, S. Putko, M. Drozdek, P. Kuśtrowski
18:00 – 18:10	468	ZEOLITE-SUPPORTED PD CATALYSTS FOR CH ₄ OXIDATION AND NOX ABATEMENT: IMPACT OF SI/AL RATIO, COMPENSATING CATION AND PROMOTER NATURE	R. Costa, R. Pacheco, D. Nascimento, M. Pereira, C. Bacariza
18:10 – 18:20	482	A COMPARATIVE STUDY OF ZEOLITES FOR THE ETHYL LEVULINATE KETALIZATION WITH GLYCEROL	F. Taddeo, M.E. Fortunato, R. Turco, A. Kowalczyk, M. Rutkowska, L. Chmielarz, V. Russo, M. Di Serio

Session 48_M1

July 1st

Chair: M. Mazur (CZ)

Time	ID	Title	Authors
16:40 – 16:50	242	POLYETHYLENE HYDROGENOLYSIS OVER RU SUPPORTED ON MESOPOROUS MFI: IMPACT OF MESOPOROSITY AND EXTERNAL ACIDITY	W. Hong, J. Ahn , C. Jo
16:50 – 17:00	247	INVESTIGATING THE INFLUENCE OF ACIDITY IN IRON/MFI CATALYSTS ON THE CONVERSION OF CO ₂ INTO LONG-CHAIN HYDROCARBONS	A. Alhendi , K. Polychronopoulou, M. Khaleel
17:00 – 17:10	258	HYDRODEOXYGENATION OF GUAIACOL TOWARDS SUSTAINABLE AVIATION FUELS USING RU-BASED CATALYSTS	M.J. Afonso, C. C. Navas, L. M. Esteves, A. Fernandes, J. M. Silva, F. Ribeiro
17:10 – 17:20	266	NI-EXCHANGED ZEOLITES FOR ETHENE DIMERIZATION: LINKING CATION ENVIRONMENTS TO THE ACCESSIBILITY OF ACTIVE SITES	N. Müller , D. Garcia Cearra, G. Weber, M. Sánchez-Sánchez
17:20 – 17:30	293	INFLUENCING CARBOCATION CHEMISTRY THROUGH THE LOCAL CHEMICAL ENVIRONMENT IN ZEOLITES	R. Zhao , S. Schallmoser, G. L. Haller, M. Sanchez-Sanchez, J. A. Lercher
17:30 – 17:40	296	HOW DOES A BOTTOM-UP APPROACH USING BIOMASS IMPACT ZSM-5 ZEOLITES IN ACID CATALYSIS ?	C. Longue, B. Louis , L. Pinard
17:40 – 17:50	336	NI-SAPO-11 CATALYSTS FOR THE CONVERSION OF BIOMASS-DERIVED FEEDSTOCKS INTO SUSTAINABLE AVIATION FUELS	M. Teixeira, C. C. Navas, L. M. Esteves, A. Fernandes, J. M. Silva, F. Ribeiro
17:50 – 18:00	348	CONTINUOUS-FLOW HYDROPROCESSING OF OLEIC ACID OVER A BIFUNCTIONAL NI/ZSM-5 CATALYST: REACTION PATHWAYS AND THE IMPACT OF LIGNIN-DERIVED AROMATICS	R. Assis dos Santos , A. Ben Hassine, P. J. Sanches Filho, M. J. Neiva Correia, P. S. F. Mendes
18:00 – 18:10	350	WASTE DERIVED ZEOLITE X FOR THERMOCHEMICAL ENERGY STORAGE IN CIRCULAR ECONOMY	J. Marčec, S. Zeljković, N. Zabukovec Logar, A. Ristić

SCIENTIFIC PROGRAMME BY SESSIONS

Session 49_M2 July 1st Chair: F. Bonino (IT)

Time	ID	Title	Authors
16:40 – 17:00	505	CHARACTERIZING ZEOLITE STRUCTURE AND ACIDITY FOR INDUSTRIAL CATALYSIS	N. C. Kovach , B. P. Le Monnier, K. Struckhoff
17:00 – 17:10	51	IN SITU TIME-RESOLVED MAS NMR SPECTROSCOPY REVEALS THE ROLE OF MODULATOR IN SYNTHESIS OF MIL-53 METAL-ORGANIC FRAMEWORK	B. Achenbach, R. Verel, J. A. van Bokhoven, N. Stock, V. L. Sushkevich
17:10 – 17:20	97	PRECISELY QUANTIFYING AL PAIRS IN ZEOLITES	K. Chen , Y. Sun, G. Hou
17:20 – 17:30	142	SERIAL CHEMICAL CRYSTALLOGRAPHY FOR AUTONOMOUS STRUCTURE AND PHASE ANALYSIS FOR POROUS MATERIALS	T. Yang
17:30 – 17:40	177	ION EXCHANGE SELECTIVITY GOVERNS PHASE SELECTION IN MIXED CATION ZEOLITE SYSTEMS	A. Rais, D. Vandenabeele , N. Doppelhammer, C. Kirschhock, E. Breynaert
17:40 – 17:50	216	DIRECT CONVERSION OF METHANE TO METHANOL ON CO ₂ OR HE ACTIVATED CU-Y ZEOLITES: STUDY OF THE FORMED OXO-CU ²⁺ SITES BY IN SITU UV-VIS AND DFT ANALYSES	E.S. Silva, C. H. F. Cunha, J. M. C. Bueno, E. A. Urquiza-Gonzalez
17:50 – 18:00	218	SILANOL-ASSISTED PATHWAY OVER ALKALI-MODIFIED ZSM-5 FOR SELECTIVE DEHYDRATION OF LACTIC ACID TO ACRYLIC ACID	J. Kim, J. Jae
18:00 – 18:10	255	STRUCTURE-PROPERTY RELATIONSHIP IN THREE-COMPONENT METAL-ORGANIC FRAMEWORKS: SYNTHESIS, CRYSTAL STRUCTURE, ADSORPTION AND ESR STUDIES	D. Vušak , S. Mal, L. Vujević, N. Zabukovec Logar, D. Žilić, B. Prugovečki
18:10 – 18:20	379	INFLUENCE OF GE ON THE CRYSTALLIZATION OF ZEOLITE ITQ-13 STUDIED BY SOLID STATE NMR	G. Cariatì , A. Vidal-Moya, T. Blasco, F. Rey

Plenary Lecture 5 July 2nd Chair: F. Xiao (CN)

Time	ID	Title	Authors
08:30 – 09:15	-	EFFECT OF CONFINEMENT ON THE ADSORPTION, PHASE AND WETTING BEHAVIOUR OF FLUIDS: RECENT PROGRESS IN THE PORE NETWORK AND SURFACE CHARACTERIZATION OF NANOPOROUS MATERIALS	Matthias THOMMES Friedrich-Alexander-University Erlangen-Nürnberg (DE)

Session Award_A July 2nd Chair: N. Zabukovec Logar (SI)

Time	ID	Title	Authors
09:20 -09:40	17	GERMANIUM ATOMS EXCEED THE TETRAHEDRAL COORDINATION IN ZEOLITES	E. Dib , Q. Yue, G. Confalonieri, D. Salusso, G. Vayssilov, M. Barreau, S. Gramatikov, R. Arletti, F. Dalena, K. Lomachenko, D. Piva, V. Valtchev, Z. Qin, Z. Yan, X. Gao, F. Fayon, S. Zafeiratos, S. Mintova
09:40 – 10:00	507	INTERZEOLITE TRANSFORMATION INTERMEDIATES (ITIS): UNLOCKING SUPERIOR CATALYSTS FOR THE CONVERSION OF BULKY MOLECULES	M. J. Mendoza-Castro , N. Linares, J. García Martínez

SCIENTIFIC PROGRAMME BY SESSIONS

Session 50_A July 2nd Chair: B. Alonso (FR)

Time	ID	Title	Authors
10:30 – 10:40	267	DEVELOPMENT OF MOR-40 ADSORBENT FOR O ₂ /O ₃ GAS SEPARATION	I. Rodrigues , V. Vilar, A. Ferreira
10:40 – 10:50	335	SUSTAINABLE POROUS SILICA MATERIALS AS HIGHLY-EFFECTIVE ADSORBENTS FOR BIOMASS-DERIVED BIOACTIVE MOLECULES	I. Trendafilova , S. Grozdanova, M. Popova
10:50 – 11:00	344	CATION-EXCHANGED LTA ZEOLITES FOR PROPANE / PROPYLENE SEPARATION	B. Claessens, M. A. Benchaabane, G. Trierweiler Gonçalves, J.-L. Paillaud, G. Chaplais, E. Bloch , S. Bourrelly
11:00 – 11:10	349	WHEN SILICALITE-2 ADSORBS LIGHT HYDROCARBONS: AN IN-SITU X-RAY DIFFRACTION STUDY	A. Barros, S. Martí, M. Palomino, F. Rey , S. Valencia, J. L. Jordá
11:10 – 11:20	401	BI-COMPONENT BREAKTHROUGH EXPERIMENTS FOR THE EFFICIENT DIRECT AIR CAPTURE AND WATER HARVESTING	M. Bonneau , T. Aumond, C. Daniel, D. Farrusseng
11:20 – 11:30	478	ZEOLITES, MOFS AND ACTIVATED CARBON AS VOC SHIELDS IN PHARMACEUTICAL PACKAGING	M. Froehly, G. Chaplais, F. Payet, H. Nouali, P. Forler, V. Roucoules, J. Klein, T. J. Daou

Session 51_M1 July 2nd Chair: N. Katada (JP)

Time	ID	Title	Authors
10:30 – 10:40	357	INTERSTRUCTURAL TRANSFORMATIONS OF MICROPOROUS TITANOSILICATES	I. Gomes, R. Abreu, A. Fidalgo Marijuan, C. M. Costa, J. Carneiro, S. Lanceros-Mendez, S. Ferdov
10:40 – 10:50	364	INSIGHTS INTO THE VANADIUM SPECIATION AND PRESSURE EFFECT OVER V/CHA ZEOLITES FOR OXIDATIVE PROPANE DEHYDROGENATION	R. Zou , J. A. M. Mesa, I. A. Khan, M. Dusselier
10:50 – 11:00	365	FLUORIDE TREATMENTS OF ZEOLITE BETA CONTAINING IRON SPECIES	T. Hayashi , S. Iwamoto, M. Omori, K. Iyoki
11:00 – 11:10	372	AMINE ADSORPTION IN ZEOLITES: FROM METAL(II) COORDINATION TO PROBING ACTIVE SITE DISTANCE	J. N. Almeida , S. Chung, J. Ruiz-Martínez
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