



8th International Symposium on Acid-Base Catalysis
May 7-10th, 2017
Rio de Janeiro - Brazil

SCIENTIFIC PROGRAM

May 7th – 10th 2017

Windsor Barra Hotel Convention Center

Rio de Janeiro – Brazil

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Time	Sunday – May 7	Monday - May 8	Tuesday - May 9	Wednesday - May 10	Time			
9:00-9:20		Registration	PL 3 – Joachim Sauer	OP 29 ID 115	KN 8	9:00-9:20		
9:20-9:40					OP 30 ID 142	F. Jentoft	9:20-9:40	
9:40-10:00					OP 31 ID 9	OP 33 ID 84	9:40-10:00	
10:00-10:20				Young Investigator Lecture - Aditya Bhan	OP 32 ID 112	OP 34 ID 83	10:00-10:20	
10:20-10:40				Break	KN 7	OP 35 ID 119	10:20-10:40	
10:40-11:00					C. Apestegua	OP 36 ID 18	10:40-11:00	
11:00-11:20					Break		11:00-11:20	
11:20-11:40		Opening ceremony	OP 11 ID 15	KN 4		11:20-11:40		
11:40-12:00		PL 1 – Bert Weckhuysen (Tanabe Prize)	OP 12 ID 14	B. Xu	PL 4 – Eduardo Falabella	11:40-12:00		
12:00-12:20			OP 13 ID 122	OP 14 ID 46		12:00-12:20		
12:20-12:40			KN 3	OP 15 ID 63		12:20-12:40		
12:40-13:00		Lunch	N. Essayem	OP 16 ID 114	Lunch	12:40-13:00		
13:00-13:20						13:00-13:20		
13:20-13:40						13:20-13:40		
13:40-14:00						13:40-14:00		
14:00-14:20		OP 1 ID 107	KN 2	OP 37 ID 62	OP 40 ID 108	14:00-14:20		
14:20-14:40		OP 2 ID 135	K. Wilson	OP 17 ID 8	KN 6	OP 38 ID 123	OP 41 ID 44	14:20-14:40
14:40-15:00		OP 3 ID 132	OP 6 ID 59	OP 18 ID 36	M. North	OP 39 ID 80	OP 42 ID 34	14:40-15:00
15:00-15:20		OP 4 ID 23	OP 7 ID 101	OP 19 ID 75	OP 23 ID 45	Poster Session 2	15:00-15:20	
15:20-15:40		OP 5 ID 49	OP 8 ID 22	OP 20 ID 54	OP 24 ID 58		15:20-15:40	
15:40-16:00		KN 1	OP 9 ID 85	OP 21 ID 30	OP 25 ID 131		15:40-16:00	
16:00-16:20		A. Gervasini	OP 10 ID 39	OP 22 ID 32	OP 26 ID 7	Break	16:00-16:20	
16:20-16:40		Break		KN 5	OP 27 ID 56		16:20-16:40	
16:40-17:00			E. Gussevskaya	OP 28 ID 48	PL 5 – Naonobo Katada	16:40-17:00		
17:00-17:20	Meeting of the ABC board	PL 2 – José Santiesteban	Break			17:00-17:20		
17:20-17:40						17:20-17:40		
17:40-18:00			Industrial Lecture - FCC SA	Poster Session 1		Closing ceremony	17:40-18:00	
18:00-18:20						18:00-18:20		
18:20-18:40						18:20-18:40		
18:40-19:00						18:40-19:00		
19:00-19:30		Cocktail	Congress Dinner			19:00-19:30		
19:30-20:00					19:30-20:00			
20:00-21:00					20:00-21:00			
21:00-22:00					21:00-22:00			

Monday, May 8th

Morning

Time (pm)	Entrance Hall
9:00-11:20	Registration
	Auditorium I
11:20-11:40	<i>Opening Ceremony</i>
11:40-12:40	<i>PL – 1 (Tanabe Prize)</i>
	Nanoscale Chemical Imaging of Brønsted Acid Sites in Zeolites: Strength, Accessibility and Reactivity
	Prof. Bert Weckhuysen - <i>Utrecht University (The Netherlands)</i>
	Chair-person: Takashi Tatsumi
12:40-14:00	Lunch

Monday, May 8th

Afternoon

Time (am)	Auditorium I
	<i>Chair-persons: Benoit Louis and Victor Teixeira</i>
14:00-14:20	<i>OP – 1</i>
	ID 107: Proximity of metal-acid sites in bifunctional catalysts for the selective conversion of hydrocarbons
	Roxana Pérez Vélez, Jovana Zečević, Krijn P. de Jong – <i>Inorganic Chemistry and Catalysis at Utrecht University (The Netherlands)</i>
14:20-14:40	<i>OP – 2</i>
	ID 135: Tuning metal and acid properties of bifunctional Pt-USY catalysts for the selective ring opening of decalin
	Lech W. O. Soares, Joan M. Faubel, Maria A. Arribas, Sibebe B. C. Pergher, Agustín Martínez – <i>Universidad Politécnica de Valencia-Consejo Superior de Investigaciones Científicas (Spain)</i>
14:40-15:00	<i>OP – 3</i>
	ID 132: Influence of Lewis acid site and Brønsted acid site interaction of Zeolite on alkane cracking activity
	Yang Zhang, Ruixue Zhao, Yue Liu, Ricardo Bermejo-Deval, Maricruz Sanchez-Sanchez, Johannes A. Lercher – <i>Technische Universität München (Germany)</i>
15:00-15:20	<i>OP – 4</i>
	ID 23: Enhancement of activity and selectivity for toluene disproportionation by ZSM-5 zeolite modified with Nickel
	Satoshi Suganuma, Koshiro Nakamura, Akihito Okuda, Naonobu Katada – <i>Tottori University (Japan)</i>
15:20-15:40	<i>OP – 5</i>
	ID 49: Effect of Mordenite Morphology and Aggregation on the Catalytic Performance of Aromatics
	Weiyi Tong, Xiaolan Qi, Dejin Kong – <i>Shanghai Research Institute of Petrochemical Technology (China)</i>
15:40-16:20	<i>KN – 1</i>
	Going beyond the catalyst acidity: effective acidities in relation with catalytic activity
	Prof. Antonella Gervasini – <i>University of Milan (Italy)</i>
16:20-17:00	<i>Coffee Break</i>

Monday, May 8th

Afternoon

Time (am)	Auditorium II
	<i>Chair-persons: Isabel Di Cosimo and Kátia Gusmão</i>
14:00-14:40	<i>KN – 2</i>
	Tailoring solid acid and base catalysts for biorefining
	Prof. Karen Wilson – <i>Aston University (UK)</i>
14:40-15:00	<i>OP – 6</i>
	ID 59: Synthesis of Metal-Organic Frameworks as Dual-Acid Catalysts for Glucose Transformation
	Thomas W. Chamberlain, Volkan Degirmenci, Ryan Oozeerally, Ralenti Pertiwi, Yuni K. Krisnandi, Richard I. Walton – <i>University of Warwick (UK)</i>
15:00-15:20	<i>OP – 7</i>
	ID 101: Efficient formation of 5-(hydroxymethyl)furfural from glucose with photoassist-phosphorylated TiO₂ catalyst
	Masashi Hattori, Keigo Kamata, Michikazu Hara – <i>Tokyo Institute of Technology (Japan)</i>
15:20-15:40	<i>OP – 8</i>
	ID 22: Lewis Acid Catalysis of Nb₂O₅ for Selective Furfural Formation from Xylose in Water
	Kiyotaka Nakajima, Navneet K. Gupta, Atsushi Fukuoka – <i>Hokkaido University and Japan Science and Technology (Japan)</i>
15:40-16:00	<i>OP – 9</i>
	ID 85: On the effect of adsorbed water on the acidity of oxide catalysts
	Guido Busca, Vicente S. Escribano, Elisabette Finocchio, Gabriella Garbarino – <i>Università di Genova (Italy)</i>
16:00-16:20	<i>OP – 10</i>
	ID 39: One-pot catalytic conversion of cellulose to sorbitol: Influence of the surface chemistry of the carbon support
	Lucília S. Ribeiro, Juan J. Delgado, José J.M. Órfão, M. Fernando R. Pereira – <i>Universidade do Porto (Portugal)</i>
16:20-17:00	<i>Coffee Break</i>

Monday, May 8th

Evening

Time (am)	Auditorium I
17:00-18:00	<i>PL – 2</i>
	Recent Advances in the Application of Zeolites to the Production of Fuels and Petrochemicals
	Dr. José Santiesteban – <i>ExxonMobil (USA)</i>
	Chair-person: Robson Monteiro
18:00-18:40	Industrial Lecture - FCC SA
	FER zeolite scale-up studies and potential use in light olefins production - an industrial approach
	Dr. José Marcos Ferreira – <i>FCC SA (Brazil)</i>
18:40-20:00	<i>Cocktail</i>

Tuesday, May 9th

Morning

Time (am)	Auditorium I
9:00-10:00	<i>PL – 3</i>
	Ab initio quantum chemistry for understanding acid catalysis by zeolites
	Prof. Joachim Sauer – <i>Humboldt University (Germany)</i>
	Chair-person: Claudio Mota
10:00-10:40	<i>Young Investigator Lecture</i>
	Chemistries mediating propagation and deactivation in methanol to hydrocarbons catalysis
	Prof. Aditya Bhan – <i>University of Minnesota (USA)</i>
10:40-11:20	<i>Coffee Break</i>
Time (am)	Auditorium I
	<i>Chair-persons: Jean-Pierre Gilson and Lucia Appel</i>
11:20-11:40	<i>OP – 11</i>
	ID 15: Upgrading of triose sugars on Sn-containing Lewis acid solids
	Eduardo A. Pighin, Verónica K. Díez, J. Isabel Di Cosimo – <i>Catalysis Science and Engineering Research Group (Argentina)</i>
11:40-12:00	<i>OP – 12</i>
	ID 14: Ethanol-to-Hydrocarbons reaction catalysed by ion-exchanged ZSM-5 zeolites
	Maha Ammourey, Benjamin Katryniok, Svetlana Heyte, Sébastien Paul, Franck Dumeignil, Mickaël Capron, Guillaume Pomalaza, Kenichi Shimizu – <i>Univ. Lille (France)</i>
12:00-12:20	<i>OP – 13</i>
	ID 122: Different Induction and Deactivation Reaction behavior over HZSM-5 and HSAPO-34 Catalysts during Methanol to Hydrocarbon Reaction under low Temperature
	Liang Qi, Zhongmin Liu – <i>Dalian Institute of Chemical Physics (China)</i>
12:20-13:00	<i>KN – 3</i>
	Acid catalyzed transformation of Lignocellulosic Biomass in water and SC organic solvents
	Prof. Nadine Essayem – <i>Institut de Recherche sur la Catalyse et l'Environnement de Lyon, Université Lyon 1 (France)</i>
13:00-14:20	Lunch

Tuesday, May 9th

Morning

Time (am)	Auditorium II
	<i>Chair-persons: Richard Walton and Dalmo Mandelli</i>
11:20-12:00	<i>KN – 4</i>
	On the Role of Solution and Support Basicity to the Catalysis of Au for Glycerol Oxidation
	<i>Prof. Bo-Qing Xu – Tsinghua University (China)</i>
12:00-12:20	<i>OP – 14</i>
	ID 46: Optimization of the solketal production from acetone and glycerol using CO₂ as switchable catalyst
	<i>Júlia A.C. Nascimento, Ana Luisa L. Fortuna, Bianca P. Pinto, Claudio J.A. Mota – Universidade Federal do Rio de Janeiro (Brazil)</i>
12:20-12:40	<i>OP – 15</i>
	ID 63: Catalytic role of Brønsted/Lewis acid sites regarding aromatic hydrocarbon production from fatty acids hydrotreating
	<i>Shiyu Xing, Pengmei Lv, Jiayan Wang, Lingmei Yang, Pei Fan, Zhongming Wang, Zhenhong Yuan – Chinese Academy of Sciences and Guangdong Key Laboratory of New and Renewable Energy Research and Development (China)</i>
12:40-13:00	<i>OP – 16</i>
	ID 114: Intramolecular disproportionation of pyruvaldehyde to lactic acid over acid-base solid catalysts
	<i>Kryslaine M. A. Santos, Elise M. Albuquerque, Luiz E. P. Borges, Marco A. Fraga – Instituto Nacional de Tecnologia (Brazil)</i>
13:00-14:20	Lunch

Tuesday, May 9th

Afternoon

Time (am)	Auditorium I
	<i>Chair-persons: Paolo Carniti and Alexandre Barros Gaspar</i>
14:20-14:40	<i>OP – 17</i>
	ID 8: Up to date views on the relationships between acid base features of heterogeneous catalysts and catalytic properties
	Jacques C. Védrine – Université P. & M. Curie (<i>France</i>)
14:40-15:00	<i>OP – 18</i>
	ID 36: Synthesis, structural characterization and acid catalysis of pore-structured niobium oxide and its fluorinated analogues
	Akihiro Yshida, Yuta Motoki, Mai Shinoda, Hiyoshi Norito, Wataru Ueda – <i>Kanagawa University (Japan)</i>
15:00-15:20	<i>OP – 19</i>
	ID 75: Base Catalytic Activity of Decaniobate Cluster [Nb₁₀O₂₈]₆
	Shun Hayashi, Seiji Yamazoe, Kiichirou Koyasu, Tatsuya Tsukuda – <i>The University of Tokyo (Japan)</i>
15:20-15:40	<i>OP – 20</i>
	ID 54: New Nb-Si-P Ternary Oxide Materials and their Use in Heterogeneous Acid Catalysis
	Antonella Gervasini, Paolo Carniti, Claudio Imperato, N.J. Clayden, Antonio Aronne – <i>Università degli Studi di Milano(Italy)</i>
15:40-16:00	<i>OP – 21</i>
	ID 30: Gold nanoparticulate catalysts deposit on niobium oxide and their catalytic activity for gas and liquid phase oxidation
	Toru Murayama, Kiyotaka Nakajima, Navneet K. Gupta, Atsushi Fukuoka, Masatake Haruta – <i>Tokyo Metropolitan University (Japan)</i>
16:00-16:20	<i>OP – 22</i>
	ID 32: Hexagonal Boron Nitride as a New Solid Acid-Base Catalyst
	Atsushi Takagaki, Shusaku Torii, Shinegenobu Hayashi, Ryuji Kikuchi, S. Ted Oyama – <i>The University of Tokyo (Japan)</i>
16:20-17:00	<i>KN – 5</i>
	Reactions of terpenes catalyzed by heteropoly compounds: upgrading of biorenewables
	Prof. Elena V. Gussevskaya – <i>Federal University of Minas Gerais (Brazil)</i>
17:00-17:40	<i>Coffee Break</i>

Tuesday, May 9th

Afternoon

Time (am)	Auditorium II
	<i>Chair-persons: Augustin Martinez and Fátima Zotin</i>
14:20-15:00	<i>KN – 6</i>
	The importance of Lewis base catalysis in Lewis acid catalysed reactions
	Prof. Michael North – <i>University of York (UK)</i>
15:00-15:20	<i>OP – 23</i>
	ID 45: Control of Al distribution of the CON-type aluminosilicate zeolite catalyst
	Masato Yoshioka, Takashi Tatsumi, Tashiyuki Yokoi – <i>National Institute of Technology and Evaluation (Japan)</i>
15:20-15:40	<i>OP – 24</i>
	ID 58: Novel strategies to design zeolite catalysts through biomass-mediated syntheses
	E.S. Gomes, A.V. Silva, C.L.M. Lopes, C. Bernardon, M.M. Pereira, B. Louis – <i>Universidade Federal do Rio de Janeiro (Brazil)</i>
15:40-16:00	<i>OP – 25</i>
	ID 131: Synthesis, characterization and catalytic activity of hierarchical zeolite, ZH-5
	Rajesh K. Parsapur, Parasuraman Selvam – <i>Indian Institute of Technology (India)</i>
16:00-16:20	<i>OP – 26</i>
	ID 7: Embryonic Zeolites: Active & Accessible Acid Catalysts
	Jean-Pierre Gilson, Valentin Valtchev, Kok-Giap Haw, Nikolai Nesterenko, Delphine Minoux, Jean-Pierre Dath – <i>Normandie Université (France)</i>
16:20-16:40	<i>OP – 27</i>
	ID 56: Oligomerization over two close and isolated protons in MFI framework
	Edyta Tabor, Milan Bernauer, Veronika Pashkova, Blanka Wichterlová, Jiří Dědeček – <i>J. Heyrovský Institute of Physical Chemistry (Czech Republic)</i>
16:40-17:00	<i>OP – 28</i>
	ID 48: Organosilane-Magadiite for CO₂ Adsorption in the Presence of CH₄ and N₂
	Rômulo B. Vieira, Pedro A.S. Moura, Enrique Vilarrasa-Garcia, Diana C.S. Azevedo, Heloise O. Pastore – <i>University of Campinas (Brazil)</i>
17:00-17:40	<i>Coffee Break</i>

Tuesday, May 9th

Evening

Time (am)	
17:40-18:40	<i>Poster Session</i>
19:30-22:00	Congress Dinner

Wednesday, May 10th

Morning

Time (am)	Auditorium I
	<i>Chair-persons: Jacques Vedrine and Sibebe Pergher</i>
9:00-9:20	<i>OP – 29</i>
	ID 115: Ta Atomically dispersed into MCM-41: application to high yield production of 1,3-butadiene from bioethanol
	Demian P. Fabiano, Bernhard Rusbueldt, Marion Eternot, Nadine Essayem – <i>Institut de Recherche sur la Catalyse et l’Environnement de Lyon, Université Lyon (France)</i>
9:20-9:40	<i>OP – 30</i>
	ID 142: Butadiene from ethanol employing doped t-ZrO₂
	Luciano H. Chagas, Priscila C. Zonetti, Vinicius M. Santos, Caio R.V. Matheus, Lucia G. Appel – <i>Instituto Nacional de Tecnologia (Brazil)</i>
9:40-10:00	<i>OP – 31</i>
	ID 9: Catalytic dehydration of 1,3-butanediol to 1,3-butadiene over Al-SBA-15 at low temperature
	Fangli Jing, Benjamin Katryniok, Marcia Araque, Marc Pera-Titus, Jean-Marc Clacens, Armin Liebens, Floryan De Campo, Franck Dumeignila, Sébastien Paul – <i>Université d’Artois (France)</i>
10:00-10:20	<i>OP – 32</i>
	ID 125: Acidity of natural zeolite clinoptilolite and catalytic performance in the acetalization of benzaldehyde with butandiol-1,3
	Hendrik Kosslick, Raja Al-Otobi, Mohammad Riaz, Farooq Ebad, Mishal Mohammad, Axel Schulz, Christian Jaeger – <i>University of Rostok (Germany)</i>
10:20-11:00	<i>KN – 7</i>
	Acid catalysis for biomass valorisation: Conversion of D-xylose into furfural
	Prof. Carlos Apesteguia – <i>University of Litoral (Argentina)</i>
11:00-11:40	<i>Coffee Break</i>
11:40-12:40	Auditorium I
	<i>PL – 4</i>
	Acid and catalytic properties of Rare Earth-containing Y-zeolites
	Prof. Eduardo Falabella – <i>Federal University of Rio de Janeiro (Brazil)</i>
	<i>Chair-person: Cristiane Henriques</i>
12:40-14:00	Lunch

Wednesday, May 10th

Morning

Time (am)	Auditorium II
	<i>Chair-persons: Leandro Martins and Manuel Fernando Pereira</i>
9:00-9:40	<i>KN – 8</i>
	Spectroscopic Observation of Hydrocarbon Reactions on Acid Sites
	<i>Prof. Friederike Jentoft – University of Massachusetts Amherst (USA)</i>
9:40-10:00	<i>OP – 33</i>
	ID 84: X-ray absorption and emission study on environment and electronic structure of manganese species in MnSiBEA zeolite and their role in NH₃-SCR of NO
	<i>Rafal Baran, Pieter Glatzel, Stanislaw Dzwigaj – ESRF - The European Synchrotron (France)</i>
10:00-10:20	<i>OP – 34</i>
	ID 83: Operando XANES study on Ni-containing La-promoted hydrotalcite-derived catalysts for CO₂ methanation
	<i>Rafal Baran, Dominik Wierzbicki, Radoslaw Debek – ESRF - The European Synchrotron (France)</i>
10:20-10:40	<i>OP – 35</i>
	ID 119: DFT investigation of Montmorillonite edge surfaces stability and their acid-basic properties
	<i>Carla G. Fonseca, Viviane Vaiss, Fernando Wypych, Renata Diniz, Alexandre A. Leitão – Universidade Federal de Juiz de Fora (Brazil)</i>
10:40-11:00	<i>OP – 36</i>
	ID 18: Ab initio simulation of the acid sites at the external surface of zeolite Beta
	<i>Jérôme Rey, Pascal Raybaud, Céline Chizallet – IFP Energies nouvelles (France)</i>
11:00-11:40	<i>Coffee Break</i>
11:40-12:40	Auditorium I
	<i>PL – 4</i>
	Acid and catalytic properties of Rare Earth-containing Y-zeolites
	<i>Prof. Eduardo Falabella – Federal University of Rio de Janeiro (Brazil)</i>
	<i>Chair-person: Cristiane Henriques</i>
12:40-14:00	Lunch

Wednesday, May 10th

Afternoon

Time (am)	Auditorium I
	<i>Chair-persons: Wagner Alves Carvalho and Pengmei Lv</i>
14:00-14:20	<i>OP – 37</i>
	ID 62: Mesoporous sulfonic acid silicas for pyrolysis bio-oil upgrading via acetic acid esterification
	Jinesh C. Manayil, Vannia C. dos Santos, Carlos V.M. Inocencio, Friederike C. Jentoft, Adam F. Lee, Karen Wilson – <i>Aston University (UK)</i>
14:20-14:40	<i>OP – 38</i>
	ID 123: Liquid-phase esterification of levulinic acid with ethanol catalyzed by sulfonated carbon catalysts: effects of additional surface functional groups
	Yukei Suzuki, Isao Ogino, Shin R. Mukai – <i>Hokkaido University (Japan)</i>
14:40-15:00	<i>OP – 39</i>
	ID 80: Heterogeneous cyclohexene oxidation to adipic acid with polyoxometalate catalysts
	João Carlos S. Soares, Arthur H. A. Gonçalves, Fátima M.Z. Zotin, Lucia R. Raddi Araújo, Alexandre B. Gaspar – <i>Instituto Nacional de Tecnologia (Brazil)</i>
15:00-16:00	<i>Poster Session</i>
16:00-16:40	<i>Coffee Break</i>

Wednesday, May 10th

Afternoon

Time (am)	Auditorium II
	<i>Chair-persons: Guido Busca and Marcelo Maciel</i>
14:00-14:20	<i>OP – 40</i>
	ID 108: Propane oxidation by vanadium supported on activated carbon from sugarcane straw
	Virgílio J.M.F. Neto, Thiago de S. Belan, André L.L. Magalhães, Alexandre B. Gaspar, Paulo G. Pries de Oliveira, Fabiana M.T. Mendes – <i>Instituto Nacional de Tecnologia (Brazil)</i>
14:20-14:40	<i>OP – 41</i>
	ID 44: Eco-Compatible Zeolite-Catalysed Continuous Halogenation of Aromatics
	P. Losch, J.F. Kolb, A. Astafan, T.J. Daou, L. Pinard, P. Pale, B. Louis – <i>Université de Strasbourg (France)</i>
14:40-15:00	<i>OP – 42</i>
	ID 34: Enhancement of concentration and functionality of active sites in zeolite based catalysts for acid-catalysed reactions
	Petr Sazama, Radim Pilar, Lukasz Mokrzycki, Vasile I. Parvulescu, Edyta Tabor, Alena Vondrova, Dalibor Kaucky, Petr Klein, Jiri Dedeczek, Stepan Sklenak, Jaroslava Maravkova – <i>J. Heyrovský Institute of Physical Chemistry (Czech Republic)</i>
15:00-16:00	<i>Poster Session</i>
16:00-16:40	<i>Coffee Break</i>

Wednesday, May 10th

Evening

Time (am)	Auditorium I
16:40-17:40	<i>PL – 5</i>
	Principles and Questions about What Controls Brønsted Acid Strength of Aluminosilicates
	Prof. Naonobo Katada – <i>Tottori University (Japan)</i>
	<i>Chair-person: Marco Fraga</i>
17:40-18:00	<i>Closing Ceremony</i>

Poster Session

Tuesday, May 9 th		Wednesday, May 10 th	
Afternoon		Afternoon	
Time 17:40 – 18:40		Time 15:00 – 16:00	
Room:			
SESSION			
ID	TITLE		
2	USSY with rich Lewis acidity: a highly-efficient hydrocracking catalyst component with the improved isomerism performance		
3	Glucose to HMF: a comparison between microwave-assisted and conventional heating systems using water and GVL as solvents over niobium phosphate catalyst		
4	Solid-state dealuminated FER zeolites on the catalytic dehydration of ethanol to ethylene		
6	Ni- β -diimine catalytic precursor anchored in Al-SBA-15 for ethylene oligomerization		
8	Cu-based catalyst applied in the isopropanol dehydrogenation		
10	Theoretical study of CO ₂ cycloaddition to epoxides catalysed by porous materials		
11	Influence of copper on nickel-based catalysts in the conversion of glycerol		
12	Effect of preparation method on catalytic activity of Ni/ γ -Al ₂ O ₃ catalysts		
13	Healthy oils by glycerolysis of triglycerides on basic catalysts		
15	Activity of Al-rich Co-*BEA in SCR of NO _x using C ₃ H ₈ as a reducing agent		
16	Correlation between the basicity of different metal oxides and the catalytic performance in the glycerol conversion		
17	H ₃ PMo ₁₂ O ₄₀ -catalyzed hydrolysis of Macauba oil		
18	Catalytic dehydration of glycerol over silica- and alumina-supported cesium-exchanged silicotungstic acid		
19	Mechanism of isopropanol dehydration on γ -Al ₂ O ₃ : experiments and DFT for a predictive kinetic model		
20	The Two Faces of Pseudo-Bridging Silanols: Isopropanol Catalytic Dehydration on Amorphous Silica-Alumina Relies on a Synergy between Brønsted and Lewis Acidic Functions		
24	Catalytic conversion of glycerol to acrolein over Pd/LaY-zeolite		
25	CaO-CuO and MgO-CuO for CO ₂ adsorption		
26	Acidity enhancement of niobia by sulfation and phosphatation treatments		
27	Evaluation of 5-hydroxymethylfurfural (HMF) production from fructose catalyzed by niobium phosphate		
29	Gas-phase oxidative dehydration of glycerol to acrylic acid on H,Fe-MCM-22 catalysts		
31	Cellulose conversion catalyzed by pore-structured niobium and tantalum oxides		
33	Pt/TiO ₂ -catalysed furfuryl alcohol hydrogenation - Tunable pentanediol generation through Lewis acidity and dopant addition		

35	H-BEA and H-FER Acid Catalysts Employed for Solketal Production by Glycerol Ketalization with Acetone
40	Effect of reaction atmosphere on the acid and redox properties of Cu (Ni or Co)-Mo/Al ₂ O ₃ catalysts for glycerol conversion
41	Acidic properties of Al ₂ O ₃ determined by pyridine adsorption
42	Zeolite structure optimization for catalytic hydroisomerization of n-alkanes
43	On The Utility of High Quality, Large ZSM-5 Crystals
47	Aqueous-phase conversion of C5-sugars over hierarchical zeolite catalysts
51	Synthesis of hybrid silicas and application in the transesterification reaction
52	Catalytic transesterification with hybrid silicas: influence of cationic surfactant
53	Synthesis and catalytic assessment of micro- and nanocrystalline faujasites ion-exchanged with organic cations
57	Effect of the composition phase and reactivity of Mo-V mixed oxide catalysts in one-pot oxydehydration of glycerol to acrylic acid.
60	Na-promoted copper aluminate for reductive aldol condensation of acetone
61	H ₂ and CO production through Ni-V-Li/Al ₂ O ₃ : a multifunctional catalyst for CH ₄ pyrolysis and CO ₂ mitigation
64	Comparison between heterogeneous acid and base catalyzed biodiesel production: catalytic mechanism and performance
67	Desulfurization of Crude Oil using Alkaline-impregnated activated carbon
69	Acid-base catalyst supported on mesoporous silica and anchored in organocomposites for the processing of biodiesel
70	Quantitative measures of acidity in H-MFI by NH ₃ and H ₂ O
72	Effect of active site accessibility for glycerol condensation with acetone under mild acidic conditions
74	Sustainable production of acrylic acid: potassium-ion exchanged zeolites for gas-phase dehydration of lactic acid
76	Heteropoly acid catalyzed isomerization of caryophyllene oxide
77	CuFe and CuCo supported on pillared clay as catalysts for CO ₂ hydrogenation into value-added products in one-step
79	Synthesis of sulphated lanthanum oxide catalysts applied to the biodiesel production
82	DFT-based calculations of the adsorptions of acetic acid, methanol and triacetin on the surfaces of zinc acetate.
86	(Bio)ethanol dehydration on doped γ -Al ₂ O ₃
87	Basicity of Faujasites containing Alkyl-ammonium Linear Cations
88	Thermal and catalytic pyrolysis of sisal residue
89	Production of bifunctional calcium oxide catalyst supported on gamma alumina for the production of biofuel from the transesterification of crambe oil
93	Comparative acidity of zeolite Y and BEA composites with 12-tungstophosphoric and 12-silicotungstic acids
97	Vacancy formation in MoS ₂ and CoMoS supported on MgO: electronic and energetic analysis
98	Catalytic cracking of model molecules of fatty acids

103	Acid-Base and Redox Centers of Biomimetic Catalyst
104	Cyclization of Pseudoionone Using Acid Carbon Obtained from Biodiesel Waste: Comparison with Classical Catalyst and Study of Reaction Parameters
105	Bifunctional acid-base mechanism for the Cannizzaro reaction of pyruvaldehyde to lactic acid over ZrO ₂ polymorphic catalysts
110	Tuning Catalysts for Regioselective Aldol Condensations
112	Modified HZSM-5 zeolites for the conversion of ethylene into propylene and aromatics
113	Etherification of different glycols with ethanol using acid zeolites as catalysts
116	CuZn/ γ -Al ₂ O ₃ and CuZn/zeolite- β catalysts applied to direct conversion of syngas to dimethyl ether
117	Synthesis of heterogeneous basic catalysts for biodiesel production
120	Evaluation of mesoporous niobium phosphate for esterification of fatty acids
126	Control of Al locations in the MFI framework by using structure-directing and pore-filling agents
127	Aldol Condensation of furfural by basic functionalized mesoporous silica
133	Effect of CaO addition on Ni-Al ₂ O ₃ catalysts applied in the steam reforming of propionic acid.
134	The Role of Chromium in the Synthesis of Acrylonitrile over MgO
136	Zeolitic catalysts for oxidative desulphurization
137	Aviation biofuels from terpenes: cascade conversion of citronellal to cycloalkanes over metal/acid catalysts
138	The influence of acid sites on supported ruthenium catalysts for glycerol hydrogenolysis
139	Activated carbon obtained from sugarcane straw as adsorbent for PAHs
140	Synthesis of bifunctional calcium oxide supported on gamma alumina for biofuel production from the transesterification of crambe oil
141	in situ DRIFTS/MS studies of transesterification of methanol and ethyl acetate over Mg/La catalyst
143	Synthesis and structural characterization of CuO _x -VO/TiO ₂ -ZrO ₂ catalysts
145	The study of 5-HMF synthesis to form fructose using SGC650H Purolite® in DMSO
146	Effect of CO ₂ in the reaction of oxidative dehydrogenation of propane over Cr/ZrO ₂ catalysts
149	Synthesis of heteropolyacid (H ₃ PW ₁₂ O ₄₀)/SBA-15 nanoparticles and their catalytic properties
150	Bimetallic Cu-(WO ₃ or ZrO ₂)/Al ₂ O ₃ catalysts for glycerol dehydration to acetol: effect of texture and acidic properties
153	WO ₃ , SiO ₂ and Nb ₂ O ₅ -modified ZrO ₂ applied in the ethanol conversion to higher products