

5th INTERNATIONAL FEZA conference



Valencia | Spain | July 3-7 2011



PROGRAMME

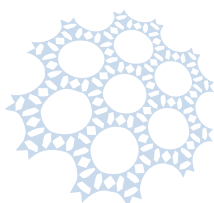
WELCOME

The Spanish Zeolite Group, under the auspices of the Federation of European Zeolite Associations, cordially invites you to participate in the 5th International FEZA Conference. This will be held from 3rd to 7th July, 2011 in Valencia, which is one of the most attractive cities on the Mediterranean coast of Spain. The Congress will be followed by a Post-Conference School aimed at spreading the knowledge on fundamentals and applications of Ordered Porous Materials, and at promoting discussion among young researchers, PhD and Post-doc students.

The Conference will continue promoting fundamental and applied science on ordered porous materials, including microporous zeolites and aluminophosphates, MOF's, mesostructured materials, porous hybrid solids, etc. The main topics of this conference will be synthesis of porous solids, advanced characterisation and catalytic applications, modelling and theoretical studies, gas adsorption and separation, membranes, natural occurring zeolites, and novel technological uses of zeolites and related materials. All these topics are covered under the umbrella of the main scientific concept of the 5th FEZA Conference Leit motif 'Innovations in Zeolites and Ordered Porous Solids'.

The purpose of the 5th FEZA Conference is to bring together academia and industry with the objective of exploring, reflecting and sharing ideas with regards to the impact of basic research on Porous Material Science is having or might have on final applications, and vice-versa the impact that novel industrial uses and/or needs will have on future trends of research in academia.

Questions like these require multi-disciplinary perspectives, so they can serve as input for integrative research, studies and approaches for a better understanding of what is or what might be the opportunities and threats/uncertainties, as well as the strengths and weaknesses of present trends in Porous Material Science and how this trend might be re-oriented for better and more desirable results.



COMMITTEES

Chairperson Avelino Corma, ITQ, Valencia

Co-Chairperson Fernando Rey, ITQ, Valencia

Secretary Teresa Blasco, ITQ, Valencia

Treasurer Germán Sastre, ITQ, Valencia

Paper Selection Committee-Chairs

Antoine Gédéon, UPMC, Paris, France
M^a José Díaz Cabañas, ITQ, Valencia
Francisco Melo, ITQ, Valencia
Enrique Sastre, ICP, Madrid
David P. Serrano, URJC and IMDEA Energía, Madrid

Publications

Antonio Chica, ITQ, Valencia
M^a José Franco, Cepsa, Madrid
César Jiménez-Sanchidrián, UCO, Córdoba
José M. López-Nieto, ITQ, Valencia
María A. Uguina, UCM, Madrid

Post Conference School

Girolamo Giordano, University of Calabria, Italy
Cristina Martínez, ITQ, Valencia
Joaquín Pérez-Pariente, ICP, Madrid
Javier Pérez-Ramírez, ETH, Zürich, Switzerland
Francesco Di Renzo, ICGM, Montpellier, France

Chairs Local Organizing Committee

Mercedes Boronat, ITQ, Valencia
Pablo Botella, ITQ, Valencia
Sofía Calero, UPO, Sevilla
Juan M. Campelo, UCO, Córdoba
Patricia Concepción, ITQ, Valencia
Joaquín Coronas, UNIZAR, Zaragoza
Urbano Díaz, ITQ, Valencia
Isabel Díaz, ICP, Madrid
Marcelo E. Domine, ITQ, Valencia
José L. Jordá, ITQ, Valencia
Jesús Lázaro, Cepsa, Madrid
Francesc X. Llabrés i Xamena, ITQ, Valencia
Carlos Márquez, ICP, Madrid
Agustín Martínez, ITQ, Valencia
Joaquín Martínez, ITQ, Valencia
Pedro Martínez, Repsol, Madrid
Michael Renz, ITQ, Valencia
Enrique Rodríguez-Castellón, UMA, Málaga
M^a José Sabater, ITQ, Valencia
Susana Valencia, ITQ, Valencia
José. L. Valverde, UCLM, Ciudad Real

PLENARY SPEAKERS

Ryong Ryoo; Center for Functional Nanomaterials, Korea Advanced Institute of Science and Technology KAIST, Daejeon, South Korea

Ferdi Schüth; Max-Planck-Institut für Kohlenforschung, Germany

Christian Serre; CNRS Université de Versailles St Quentin en Yvelines, France

Michael Tsapatsis; Chemical Engineering & Materials Science, University of Minnesota, USA

Jihong Yu; State Key Laboratory of Inorganic Synthesis and Preparative Chemistry, College of Chemistry, Jilin University, China

KEYNOTES SPEAKERS

Étienne Duguet; Science and Technology Bordeaux Institute of Condensed Matter Chemistry, University of Bordeaux-1, France

Ute Kolb; Institut Physikalische Chemie, Johannes Gutenberg-University, Germany

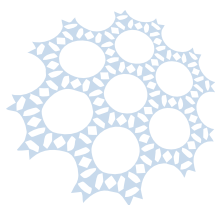
Petr Nachtigall; Department of Physical Chemistry, Faculty of Science, Charles University, Prague, Czech Republic

Carlo Perego; Research Center for Non-Conventional Energies, Istituto Eni Donegani, Eni SpA, Italy

Joao Rocha; Centre for Research in Ceramics and Composite Materials-CICECO, University of Aveiro, Portugal

Dirk de Vos; Centre for Surface Chemistry and Catalysis, Katholieke Universiteit Leuven, Belgium

Bert Weckhuysen; Inorganic Chemistry and Catalysis group, Department of Chemistry, Utrecht University, The Netherlands



GENERAL INFORMATION

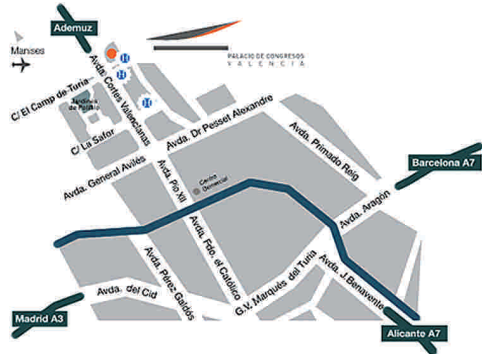
DATES AND VENUE

From Sunday, July 3rd to Thursday, July 7th, 2011

VALENCIA CONFERENCE CENTER
PALACIO DE CONGRESOS DE VALENCIA

Avda. Cortes Valencianas, n° 60
46015 Valencia (Spain)

www.palcongresos-vlc.com



TECHNICAL SECRETARIAT

GRUPO PACIFICO

Maria Cubi, 4 Pral.
08006 Barcelona - Spain
Tel. (34) 932.388.777
Fax. (34) 932 387 488

feza2011@pacifico-meetings.com



TECHNICAL SECRETARIAT AT THE VENUE AND ON-SITE REGISTRATION

The Technical Secretariat and on-site registration desk will be open at the Venue as follows:

| | |
|---------------------------------|--------------------------|
| Sunday, July 3 rd | From 17:00h to 20:00h. |
| Monday, July 4 th | From 8:00h until 19:00h. |
| Tuesday, July 5 th | From 8:00h until 17:00h. |
| Wednesday, July 6 th | From 8:00h until 19:00h. |
| Thursday, July 7 th | From 8:00h until 15:00h. |

REGISTRATION FEES

| | On Site |
|----------------------------|----------|
| Academic | 680.00 € |
| *Student | 450.00 € |
| Industry | 850.00€ |
| Accompanying person | 275.00€ |
| Congress Dinner per person | 70.00 € |

VAT 8% included

* Students need to supply an official statement from their university/research institution/thesis supervisor that certifies that they are registered as (graduate) students.

Regular registration fee includes:

- Admission to all scientific sessions
- Coffee break
- Conference badge and kit
- Welcome Cocktail on Sunday 3rd
- Informal dinner on Tuesday 5th

**Accompanying person's fee includes:

- Welcome Cocktail on Sunday 3rd
- Guided Tour on Monday 4th (including lunch)
- Valencia Excursion on Tuesday 5th
- Informal dinner on Tuesday 5th

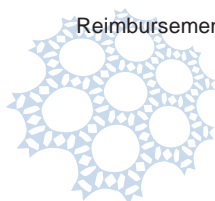
Minimum of 20 pax to guarantee the Accompanying Persons' Program

Cancellation policy:

Registered participants unable to attend the Congress may ask for refunds. All cancellation must be addressed by writing to the General Secretariat

- Cancellations received before May 3rd, 2011: all amount will be refunded except 50€ as cancellation expenses
- Cancellations received between May 3rd and June 3rd, 2011: 70% refund
- Cancellations received after June 3rd, 2011: no refund

Reimbursements will be processed after the close of the Conference



TECHNICAL INFORMATION

POSTER AND ORAL PRESENTATIONS

Oral Presentations:

Sessions will be divided into 15 min presentation plus 5 min for questions and comments. All speakers should check into the Speaker's Room at least two hours prior to the beginning of their session to test and deliver their presentation.

Posters Presentations:

SESSION 1. Monday 4th from 17:30h - 19:00h

ROOM 1 AND ROOM 2

Set up:

Monday 4th from 10:00h to 12:00h

Dismantling:

Monday 4th from 19:00h to 19:30h

SESSION 2. Wednesday 6th from 17:30h - 19:00h

ROOM 1 AND ROOM 2

Set up:

Wednesday 6th from 10:00h to 12:00h

Dismantling:

Wednesday 6th from 19:00h to 19:30h

The dimensions of the poster should not exceed 90 cm (3') wide x 120cm. (4') high.

Please note that the Organization will not be responsible for the posters that are left in the panels after the session.

When hanging the posters note that no thumbtacks will be allowed. We ask you to please, use double-sided tape. Thanks.

SOCIAL EVENTS

·Sunday, July 3rd:

19:00h-20:00h.....Welcome Reception at the Venue Valencia Conference Center

·Tuesday, July 5th:

20:00.....Informal Dinner / Address: Masia Campo Aníbal

Transfers will be provided from the Congress Venue

·Wednesday, July 6th:

21:30h.....Congress Dinner at Palau de les Arts Reina Sofía

Transfers will be provided from the Congress Venue

OFFICIAL LANGUAGE

The official language of the Congress is English. No simultaneous translation will be provided.

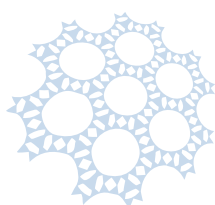
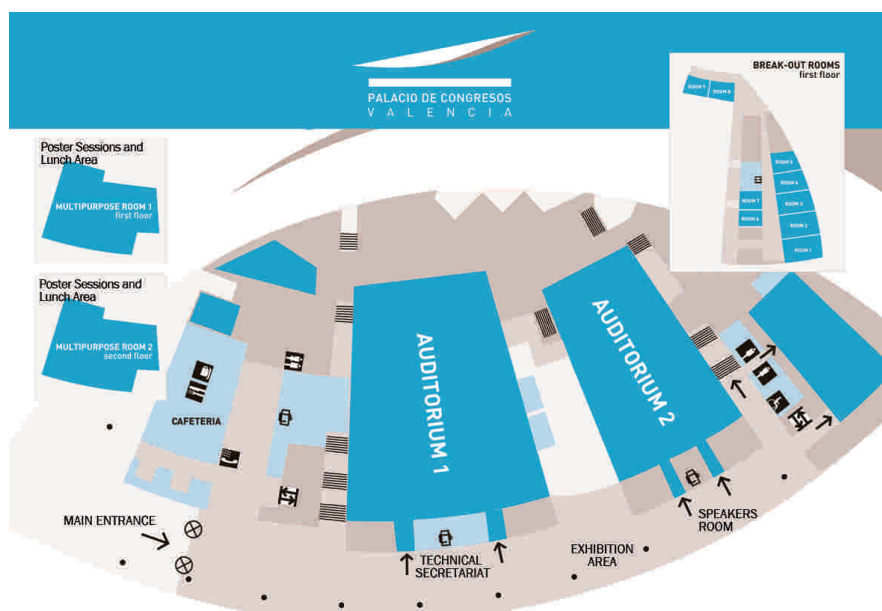
BADGES AND SECURITY

It is essential that you wear your personal badge at all times while in the Congress venue and during the Social Events, as it is the official entrance pass to scientific sessions and other Congress activities. For the Social Events, it will also be necessary to present the corresponding ticket as well as the badge.








MEDICAL ASSISTANCE AND INSURANCE

Participants are advised to make their own arrangements regarding travel insurance and medical assistance during the Congress. Neither the Organization nor the Congress Secretariat are able to accept any responsibility whatsoever for damage or injury to persons or their belongings during the Congress. In case of any medical problem, please, contact the Technical Secretariat for assistance.

VALENCIA CONFERENCE CENTER



PROGRAMME

| TOPIC | TITLE | CODE | |
|-------|--|------|---|
| 1 | Synthesis and characterization of porous solids | SC |  |
| 2 | Development of new materials | NM |  |
| 3 | Modeling and theoretical studies | Th |  |
| 4 | Petrochemical and environmental catalytic applications | PE |  |
| 5 | Catalysis for fine chemicals and pharmaceuticals | FC |  |
| 6 | Separations | SM |  |
| 7 | Advanced technological applications | TA |  |

PROGRAMME

SUNDAY / JULY 3rd

| | |
|-------------|---|
| 17.00-20.00 | Pre-registration at Venue Valencia Conference Center |
| 19.00-20.00 | Welcome Reception at Venue Valencia Conference Center |

MONDAY / JULY 4th (I)

| 8.00-19.00 | Open Registration | |
|-------------|---|---|
| 9.00-9.20 | ROOM AUDITORIUM 1 OPENING CEREMONY | |
| 9.20-10.20 | PLENARY 1, Opening Lecture: Ryong Ryoo, Breck Award Recipient 2010 Directing zeolite structures into hierarchically nanoporous architectures <i>Chair: G. Vayssilov</i> | |
| | ROOM AUDITORIUM 1 TOPIC 1 | ROOM AUDITORIUM 2 TOPIC 6 |
| | <i>Chairs: M. Derewinski, F. Di Renzo</i> | <i>Chairs: P.A. Barrett, W. Makowski</i> |
| 10.20-10.40 | SC-O-01: Zeolite hybrid coating on aluminum substrates Jean Daou , N. Lauridant, G. Arnold, M. Soulard, J. Patarin, D. Faye, <i>Mulhouse, France</i> | SM-O-01: Interplay of metal connector and amine functionality in flexible MIL-53 MOF's: repercussion on CO ₂ separation Pablo Serra-Crespo , E. Gobechiya, J. Juan Alcaniz, A. Martínez-Joaristi, Y. Filinchuk, C. Kirschhock, J. Gascón, F. Kapteijn, <i>Delft, Netherlands</i> |
| 10.40-11.00 | SC-O-02: Zeolite Beta Mechanisms of Nucleation and Growth Nathan Hould , R. Lobo, <i>Newark, USA</i> | SM-O-02: Mixed Matrix Membranes comprising Functional Flexible Metal Organic frameworks for gas separation Jorge Gascón , B. Zornoza, A. Martínez-Joaristi, P. Serra-Crespo, C. Téllez, J. Coronas, F. Kapteijn, <i>Zaragoza, Spain</i> |
| 11.00-11.30 | Coffee Break | |
| | <i>Chairs: P. A. Wright, E. Pastore</i> | <i>Chairs: J. Gascon, G. Golemme</i> |
| 11.30-11.50 | SC-O-03: Local Structure Links in Zeolite Frameworks prepared following the F and OH-based Routes Alain Tuel , X. Liu, U. Ravon, <i>Villeurbanne, France</i> | SM-O-03: Liquid phase adsorption of organic compounds onto Metal Organic Frameworks (MOF's) studied by microcalorimetry Mohammed Boulhout , I. Beurroies, P. Llewellyn, M. Maes, D. De Vos, R. Denoyel, <i>Marseille, France</i> |
| 11.50-12.10 | SC-O-04: Heterogeneity of Al sites in a low silica KFI aluminosilicate synthesized by a novel method Christine E. Kirschhock , Y. Lorgouilloux, Y. Xiong, J.A. Martens, <i>Heverlee, Belgium</i> | SM-O-04: Zeolite pervaporation membranes on hollow fiber supports Zhengbao Wang , Q. Ge, J. Shao, Y. Yan, <i>Zhejiang, China</i> |
| 12.10-12.30 | SC-O-05: Synthesized of microporous crystals of titanosilite (TS-1) along b-orientation assisted by organic Additives Xiangju Meng , Z. Shan, H. Wang, L. Wang, J. P. Lewis, F-S Xiao, <i>Hangzhou, China</i> | SM-O-05: Preparation and Characterization of Zeolitic Imidazolate Framework Molecular Sieve Membranes Helge Bux , A. Feldhoff, Y. Li, J. Cravillon, M. Wiebcke, C. Chmelik, J. Kärger, S. Fritzsche, J. Caro, <i>Hannover, Germany</i> |
| 12.30-12.50 | SC-O-06: Spontaneous t-stilbene ionization in medium pore zeolites: Effects of spatial constraints on the charge transfers. Mathieu Hureau , A. Moissette, H. Vezin, C. Brémard, <i>Villeneuve d'Ascq, France</i> | SM-O-06: Separation of alcohols on SAPO-34 Julien Cousin Saint Remi , R. Tom, W. Paul, S. Ranjeet, D. Joeri, <i>Brussels, Belgium</i> |

MONDAY / JULY 4th (II)

| | ROOM AUDITORIUM 1 TOPIC 1 | ROOM AUDITORIUM 2 TOPIC 6 |
|--------------|--|--|
| 13.00-13.30 | Vendor Session Commercializing SDA's: Practical Guidelines and Capabilities for Industry, SACHEM Inc. <i>Company Introduction by John Puryear, Business Director</i> <i>Technical talk by Dr. Roger Moulton, Staff Scientist</i> | |
| 13.30-15.00 | Lunch | |
| | | Chairs: M. Thommes, S. Valencia |
| 15.00-15.20 | KEYNOTE 1: Bert Weckhuysen In-situ spectroscopy of zeolite materials at the single particle level Chair: G. Sankar | SM-O-07: Novel silicalite-1/PIM-1 hybrid nanocomposite membranes for gas separation: preparation and characterization Gianni Golemme , M. G. Buonomenna, P.M. Budd, C.R. Mason, P. Bernardo, F. Bazzarelli, J.C. Jansen, <i>Rende, Italy</i> |
| 15.20-15.40 | | SM-O-08: Natural Gas Sweetening by Adsorption on Silica-Alumina Angela Carati , G. Bellussi, F. Bazzano, E.F. Gambarotta, R. Millini, P. Pollesel, C. Rizzo, M. Tagliabue, P. Broccia, <i>Milan, Italy</i> |
| | Chairs: V. Valtchev, G. Giordano | |
| 15.40-16.00 | SC-O-07: Probing the active site during methane conversion over Cu-MOR with XAS Evalyn Mae C. Alayon , M. Nachtegaal, E. Kleymenov, J.A. Van Bokhoven, <i>Villigen, Switzerland</i> | SM-O-09: The Adsorption of Salicylic Acid, Acetylsalicylic Acid and Atenolol from Aqueous Solutions onto Natural Zeolites and Clays: Clinoptilolite, Bentonite and Kaolin. Vesna Rakic , N. Rajic, M. Jovanovic, A. Dakovic, A. Auroux, <i>Zemun, Serbia</i> |
| 16.00-16.20 | SC-O-08: A Co-templating Route to Cu SAPO STA-7, an Active Catalyst for the Selective Catalytic Reduction of NO with NH ₃ Paul Wright , L. Picone, S. Warrender, L. Gaberova, P. Llewellyn, B. Moulin, A. Vimont, I.S. Nam, S.B. Hong, <i>St. Andrews, UK</i> | SM-O-10: Transport and separation properties of binary aromatic hydrocarbon mixtures in MFI powder, pellets and membranes Andreas Jentys , R. Kolvenbach, J. Lercher, J. Ahn, S. Al-Khattaf, N. Al-Yassir, O. Gobin, <i>Garching, Germany</i> |
| 16.20-16.40 | SC-O-09: Measuring silicon average connectivity by ²⁹ Si NMR: the missing constraint to understand oligomers, nanoparticles and zeolite formation. Francis Taulelle , M. Haouas, <i>Versailles, France</i> | SM-O-11: High Pressure Calorimetry of Water Intrusion in Nanopores Jean Pierre Bellat , T. Karbowski, C. Paulin, <i>Dijon, France</i> |
| 16.40-17.00 | SC-O-10: Characterization of acidic zeolite catalysts by thermodesorption and cracking of n-nonane Waclaw Makowski , K. Mlekodaj, <i>Krakow, Poland</i> | KEYNOTE 2: Joao Rocha Microporous Heteropolyhedra Framework Silicates: From Light Emission to NO Drug Delivery Chair: L. Marchese |
| 17.00 -17.20 | SC-O-11: Structure refinement of ordered mesoporous carbon materials from X-ray diffraction data Wolfgang Schmidt , <i>Muelheim an der Ruhr, Germany</i> | |
| 17.30-18.00 | Vendor Session CO₂ sorption studies on various solid and liquid substrates by volumetric and coupled calorimetric-volumetric method Mr. Stéphan Moreau SETARAM Instrumentation | |
| 17.20-19.00 | POSTER SESSION 1 (see page number 19) + Coffee | |

| TUESDAY / JULY 5 th (I) | | |
|------------------------------------|---|--|
| 8.00-17.00 | Open Registration | |
| | ROOM AUDITORIUM 1 | |
| 9.00-10.00 | PLENARY 2: Michael Tsapatsis Zeolite particles by disassembly and uses in thin films <i>Chair J. Coronas</i> | |
| | ROOM AUDITORIUM 1 TOPIC 1 | ROOM AUDITORIUM 2 TOPIC 4 |
| | <i>Chairs: B. Onida, A. Gedeon</i> | <i>Chairs: B. Sels, J. Cejka</i> |
| 10.00-10.20 | SC-O-12: New insights into the resolution and connectivities between spin ½ and quadrupolar nuclei: application to the advanced characterization of phosphate materials Laurent Delevoye , G. Tricot, O. Mentré, J. Trébosc, L. Montagne, O. Lafon, J.P. Amoureux, <i>Villeneuve d'Ascq, France</i> | PE-O-01: Insight into the nature of the active site in Cu-CHA for NH ₃ -SCR Upakul Deka , S. Korhonen, B. Weckhuysen, A. Beale, <i>Utrecht, Netherlands</i> |
| 10.20-10.40 | SC-O-13: An in-situ study of Co and Cu based zeolites for the selective catalytic reduction of NOx: new possibilities for in-situ catalysis at Alba synchrotron Inma Peral , G. Guilera, C. Alonso-Escobar, <i>Barcelona, Spain</i> | PE-O-02: An operando IR Study of the Effect of Unburnt HC and NO/NOx Ratio on the NH ₃ -SCR Efficiency of a Commercial Automotive Fe-Zeolite Catalyst Irene Malpartida , O. Marie, P. Bazin, M. Daturi, X. Jeandel, <i>Caen, France</i> |
| 10.40-11.00 | SC-O-14: Improved Stability of SSZ-13 for MTO: Mesopore Generation through Diquaternary Ammonium-Type Surfactants Leilei Wu , V. Degirmenci, P. Magusin, E. Hensen, <i>Eindhoven, Netherlands</i> | PE-O-03: Heterogeneous oligomerization of ethylene on Ni-Beta catalysts Agustín Martínez , M.A. Arribas, P. Concepción, <i>Valencia, Spain</i> |
| 11.00-11.30 | Coffee Break | |
| | <i>Chairs: J. Pérez-Ramirez, A. Tuel</i> | <i>Chairs: C. Márquez, D. Cardoso</i> |
| 11.30-11.50 | SC-O-15: Synthesis of Well-Structured Ultra Small Mesostructured Porous Silica Nanoparticles Feifei Gao , B. Albela, S. Casale, L. Bonneviot, <i>Lyon, France</i> | PE-O-04: Hydrocracking of long chain alkanes over Y zeolite with trimodal porosity François Fajula , R. Kenmogne, A. Finiels, V. Hulea, J. Zecevic, H. Friedrich, P.E. De Jongh, K.P. De Jong, S. Van Donk, <i>Montpellier, France</i> |
| 11.50-12.10 | SC-O-16: Improvement of the hierarchical TS-1 properties by silanization of protozeolitic units in presence of alcohols Inés Moreno , D.P. Serrano, R. Sanz, A. Peral, P. Pizarro, <i>Móstoles, Spain</i> | PE-O-05: BEA zeolite nano-crystals dispersed over alumina for hexadecane hydroisomerisation Nuno Batalha , S. Morisset, L. Pinard, J.L. Lemberon, F. Lemos, P. Magnoux, F. Ramôa Ribeiro, <i>Poitiers, France</i> |
| 12.10-12.30 | SC-O-17: Surfactant-Templated Mesoporous Zeolites Javier García-Martínez , A.I. Carrillo Gómez, <i>Alicante, Spain</i> | PE-O-06: Design of Ru-Zeolites for Hydrogen-free Production of Conjugate Linoleic Acids and Conjugated Oils Bert Sels , A. Philippaerts, S. Goossens, J. Geboers, M. Tromp, S. Turner, G. Van Tendeloo, P. Jacobs, <i>Heverlee, Belgium</i> |
| 12.30-12.50 | SC-O-18: Delamination of Layered Zeolite Precursors under Mild Conditions Isao Ogino , E. Eilertsen, M. Nigra, S. Hwang, J.M. Ha, T. Rea, S. Zones, A. Katz, <i>Berkely, USA</i> | PE-O-07: Effect of preparation method on the catalytic behavior of CeO ₂ supported over HZSM-5 zeolite for deep oxidation of 1,2-dichloroethane Carmen Sampedro , B. De Rivas, R. López-Fonseca, M.A. Gutierrez-Ortiz, J.I. Gutierrez-Ortiz, <i>Bilbao, Spain</i> |

TUESDAY / JULY 5th (II)

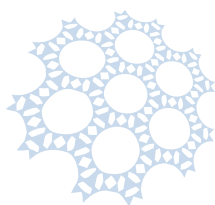
| | ROOM AUDITORIUM 1 | ROOM AUDITORIUM 2 |
|-------------|---|---|
| 13.00-13.30 | Vendor Session Bruker Gas Chromatography Products Hans van den Heuvel GC Product Manager Bruker Chemical Analysis B.V | |
| 13.30-15.00 | Lunch | |
| | <i>Chairs: B. Weckhuysen, H. Gies</i> | |
| 15.00-15.20 | SC-O-19: The first post-synthesis transformation of a 3-dimensional framework into a lamellar zeolite with modifiable architecture Jiri Cejka , W. Roth, O. Shvets, M. Shamzhy, P. Chlubná, M. Kubu, P. Nachtigall, <i>Prague, Czech Republic</i> | KEYNOTE 3: Carlo Perego Zeolites and Related Mesoporous Materials for Multi-talented Environmental Solutions <i>Chair: J. Santiesteban</i> |
| 15.20-15.40 | SC-O-20: The impact of coadsorbed molecules on the redox properties of Co ²⁺ ions in zeolite CoZSM-5 Kinga Gora-Marek , <i>Krakow, Poland</i> | |
| | | TOPIC 5 |
| | | <i>Chairs: F.G. Ribeiro, C. Jiménez-Sanchidrián</i> |
| 15.40-16.00 | SC-O-21: Application of solid state electrochemistry techniques to polyfunctional organic-inorganic hybrid materials: The Maya Blue problem Antonio Doménech , M.T. Doménech Carbó, N. Montoya, <i>Burjassot, Spain</i> | FC-O-01: Catalytic Activity of Lipase Immobilized in Novel Cage-like Mesoporous Organosilicas Zhou Zhou , S. Kullmann, M. Hartmann, R.N. Klupp Taylor, H. Bao, <i>Erlangen, Germany</i> |
| 16.00-16.20 | SC-O-22: Synthesis of Al-containing interlayer-expanded-MWW zeolite with high catalytic performance under neutral conditions Toshiyuki Tokoy , S. Mizuno, H. Imai, J.N. Kondo, T. Tatsumi, <i>Yokohama, Japan</i> | FC-O-02: Deciphering Support-Catalyst Interfaces within Heterogeneous Bio-derived Frameworks David Xuereb , J. Dzierzak, R. Raja, <i>Southampton, UK</i> |
| 16.20-16.40 | KEYNOTE 4: Ute Kolb Applications of Automated electron Diffraction Tomography (ADT) on nanoporous materials <i>Chair: P. Kooyman</i> | FC-O-03: Ionic liquids supported on SBA-15 as catalysts for chemical fixation of carbon dioxide: a high-throughput study in scCO ₂ Carmela Aprile , F. Giacalone, L. Liotta, J. Martens, P. Pescarmona, M. Gruttadauria, <i>Namur, Belgium</i> |
| 16.40-17.00 | | FC-O-04: Influence of defective sites of Silicalite-1 surface materials on the catalytic etherification reaction of 5-hydroxymethyl furfural Paola Lanzafame , D.M. Temi, S. Perathoneer, G. Centi, A. Macario, A. Aloise, G. Giordano, <i>Messina, Italy</i> |
| 20.00 | INFORMAL DINNER Venue Masia Campo Anibal Transfers provided from the Congress Venue | |

| WEDNESDAY / JULY 6 th (I) | | |
|--------------------------------------|--|---|
| 8.00-19.00 | Open Registration | |
| | ROOM AUDITORIUM 1 | |
| 9.00-10.00 | PLENARY 3: Christian Serre High-valence transition metals Metal Organic Frameworks: from synthesis to applications <i>Chair: G. Bellussi</i> | |
| | ROOM AUDITORIUM 1 TOPIC 7 | ROOM AUDITORIUM 2 TOPIC 5 |
| | <i>Chairs: D. Farrusseng, S. El Safty</i> | <i>Chairs: U. Díaz, L. Bonneviout</i> |
| 10.00-10.20 | TA-O-01: Tri-functional MOF's and their potential use in drug delivery applications Alistair C. Mckinlay , P.S. Wheatley, R.E. Morris, <i>St. Andrews, UK</i> | FC-O-05: A Novel ITQ-2/TUD-1 Micro-Mesoporous Composite: In-situ Delamination as a Tool for the Preparation of Innovative Materials Thomas Maschmeyer , C. Aquino, H. Pastore, A. Masters, <i>Sydney, Australia</i> |
| 10.20-10.40 | TA-O-02: Confined drugs in mesoporous silica for controlled release applications: a solid state NMR characterization Thierry Azais , N. Folliet, D. Aiello, F. Testa, F. Guenneau, A. Nossou, G. Laurent, F. Babonneau, <i>Paris, France</i> | FC-O-06: 2-Butyne-1,4-diol hydrogenation over palladium supported on Zn ²⁺ -based MOF and host-guest MOF/calix[4]arene materials Vera Issaeva , O. Tkachenko, E. Afonina, L. Kozlova, G. Kapustin, W. Gruenert, L. Kustov, <i>Moscow, Russia</i> |
| 10.40-11.00 | TA-O-03: Release Mechanisms for Bioactive Molecules from Mesoporous Silica Thomas Bein , C. Dohmen, D. Schaffert, E. Wagner, A. Schlossbauer, <i>Munich, Germany</i> | FC-O-07: The electronic effects of ligand substitution on Lewis acid catalysis with MOF's Frederik Vermoortele , B. Van De Voorde, R. Ameloot, D. De Vos, <i>Haverlee, Belgium</i> |
| 11.00-11.30 | Coffee Break | |
| | <i>Chairs: B.-L. Su, P. Behrens</i> | |
| 11.30-11.50 | TA-O-04: Gold nanoclusters with mesoporous silica coating for combined chemotherapy and photothermal therapy of cancer cells Manuel Quesada , P. Botella, I. Ortega, C. Muniesa, R.F. Madrigal, E. Fernández, A. Corma, A. Fimia, <i>Valencia, Spain</i> | KEYNOTE 5: Dirk de Vos Advanced Light Microscopic Techniques for Zeolite Characterization -Catalytic Exploration of new Zeolite Materials <i>Chair: T. Tatsumi</i> |
| 11.50-12.10 | TA-O-05: Photoresponsive layered double hydroxides with controllable magnetic response Gonzalo Abellán , H. García, E. Coronado, J.L. Jordá, C. Martí-Gastaldo, A. Ribera, <i>Valencia, Spain</i> | |
| 12.10-12.30 | TA-O-06: Hydrophilic zeolite membranes on silicon substrates for monolith fabrication of microdevices S. Luaces , M. Urbiztondo, R. Mallada, M. Pina, J. Santamaria, <i>Zaragoza, Spain</i> | <i>Chairs: M. Dómine, A. Carati</i> FC-O-08: Catalytic Activity of Pure Germanosilicate UTL zeolite in Decane Test Reaction Nataliia Kasian , G. Vanbutsele, K. Houthoofd, T. Koranyi, E. Verheyen, J. Martens, C. Kirschhock, <i>Kyiv, Ukraine</i> |
| 12.30-12.50 | TA-O-07: Mesoporous Aluminosilica Monolith Sensors for Selective Visualization of Toxic Metal Ions Sherif El Safty , <i>Tsukuba-shi, Japan</i> | FC-O-09: Evidence for "Carbene-like" Intermediate in the Reaction of Methoxy Species with Light Alkenes on H-ZSM-5 Junko Kondo , H. Yamazaki, H. Imai, T. Yokoi, T. Tatsumi, <i>Yokohama, Japan</i> |

WEDNESDAY / JULY 6th (II)

| | ROOM AUDITORIUM 1 | ROOM AUDITORIUM 2 |
|--------------|--|---|
| 13:00- 13:30 | Vendor Session Hydrocarbon Analysis by Gas Chromatography Hans van den Heuvel GC Product Manager Bruker Chemical Analysis B.V | |
| 13.30-15.00 | Lunch | |
| | | TOPIC 1 Chairs: J.L. Paillaud, I. Ivanova |
| 15.00-15.20 | KEYNOTE 6: Étienne Dugué Design of inorganic nanoparticles for in vivo applications Chair: T. Bein | SC-O-23: Atomic distribution of silver in silver-containing zeolite A revealed by Cs corrected scanning transmission electron microscopy Álvaro Mayoral, T. Carey, P.A. Anderson, I. Diaz, Zaragoza, Spain |
| 15.20-15.40 | | SC-O-24: Inelastic neutron scattering for the study of hydrogen adsorption on porous solids Timmy Ramirez-Cuesta, Didcot, UK |
| | TOPIC 3 Chairs: D. Lewis, S. Svelle | TOPIC 8 Chairs: S. Mintova, T. Maschmeyer |
| 15.40-16.00 | Th-O-01: Effect of fluorine on the self-aggregation behaviour of aromatic molecules in the synthesis of microporous aluminophosphates Luis Gómez-Hortiguera, F. López-Arbelo, F. Corà, J. Pérez-Pariente, Madrid, Spain | NM-O-01: Seed-directed Synthesis of Zeolites with Enhanced Performance in the Absence of Organic Templates Feng-Shou Xiao, Hangzhou, China |
| 16.00-16.20 | Th-O-02: Computational Design and Synthesis of Electroactive Poly Oxo Metalate Organic Frameworks (POMOF's); Towards new catalysts for H ₂ production Caroline Mellot-Draznieks, A. Dolbecq, B. Keita, London, UK | NM-O-02: Novel Macroporous Core@ Ordered Mesoporous Shell Structure: Catalytically Stable and Active Nanoreactor Xiao Yu Yang, Y. Li, G. Van Tendeloo, B.L. Su, Wuhan, China |
| 16.20-16.40 | Th-O-03: External Surface Adsorption on Silicalite-1 Zeolite Studied by Molecular Simulation Sondre Schnell, E. Garcia-Pérez, J.M. Castillo, S. Calero, S. Kjelstrup, T.J. Vlugt, Delft, Netherlands | NM-O-03: Incorporation of semiconductive polymer into mesoporous SBA-15 platelets: towards new luminescent hybrid systems Leonardo Marchese, F. Cucinotta, F. Carniato, G. Paul, S. Bracco, C. Bisio, S. Caldarelli, Alessandria, Italy |
| 16.40-17.00 | KEYNOTE 7: Petr Nachtigall Coordination of extra-framework metal cations: effects on adsorption and catalytic properties of zeolites Chair: M. Waroquier | NM-O-04: Combinatorial synthesis of multifunctional MOF via a generic post-functionalization route. Application to acid/base catalysis. Marie Savonnet, D. Bazer-Bachi, N. Bats, V. Lecocq, C. Pinel, D. Farrusseng, Villeurbanne, France |
| 17.00-17.20 | | NM-O-05: High-Throughput Study of Highly Porous Al-based MOF's Norbert Stock, T. Ahnfeldt, H. Reinsch, Kiel, Germany |
| 17.20-19.00 | POSTER SESSION 2 (see page number 35) + Valencian Horchata | |
| 21.30 | Congress Dinner at Palau de les Arts Reina Sofia Transfers provided from the Congress Venue | |

| THURSDAY / JULY 7 th | | | | | |
|---|---|---|--|-----------------------------------|---|
| 8.00-15.00 | Open Registration | | | | |
| | ROOM AUDITORIUM 1 | | | | |
| 9.00-10.00 | <p style="text-align: center;">PLENARY 4: Jihong Yu Needs and trends in rational synthesis of zeolitic materials <i>Chair: A. Burton</i></p> | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #90EE90; text-align: center;">ROOM AUDITORIUM 1 TOPIC 3</td> <td style="background-color: #FFD700; text-align: center;">ROOM AUDITORIUM 2 TOPIC 2</td> </tr> <tr> <td style="background-color: #90EE90; text-align: center;"><i>Chairs: R. Bell, T. Vlucht</i></td> <td style="background-color: #FFD700; text-align: center;"><i>Chairs: D. P. Serrano, F. Taulelle</i></td> </tr> </table> | ROOM AUDITORIUM 1 TOPIC 3 | ROOM AUDITORIUM 2 TOPIC 2 | <i>Chairs: R. Bell, T. Vlucht</i> | <i>Chairs: D. P. Serrano, F. Taulelle</i> |
| ROOM AUDITORIUM 1 TOPIC 3 | ROOM AUDITORIUM 2 TOPIC 2 | | | | |
| <i>Chairs: R. Bell, T. Vlucht</i> | <i>Chairs: D. P. Serrano, F. Taulelle</i> | | | | |
| 10.00-10.20 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #90EE90; vertical-align: top;"> Th-O-04: Adsorption of short alkanes in chabazite - Modelling van der Waals interactions Florian Göttl, J. Hafner, <i>Vienna, Austria</i> </td> <td style="background-color: #FFD700; vertical-align: top;"> NM-O-06: The role of the solvent on the dimensionality of the Mg-MOF investigated by NMR spectroscopy Mojca Rangus, M. Mazaj, G. Mali, T. B. Celic, V. Kaucic, <i>Ljubljana, Slovenia</i> </td> </tr> </table> | Th-O-04: Adsorption of short alkanes in chabazite - Modelling van der Waals interactions Florian Göttl , J. Hafner, <i>Vienna, Austria</i> | NM-O-06: The role of the solvent on the dimensionality of the Mg-MOF investigated by NMR spectroscopy Mojca Rangus , M. Mazaj, G. Mali, T. B. Celic, V. Kaucic, <i>Ljubljana, Slovenia</i> | | |
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| 10.20-10.40 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #90EE90; vertical-align: top;"> Th-O-05: N₂O Decomposition in the absence of NO. Why does Fe-ferrierite have a superior activity with respect to Fe-ZSM-5 and Fe-beta? A combined DFT and multi-spectroscopic study Stepan Sklenak, Z. Sobalik, <i>Prague, Czech Republic</i> </td> <td style="background-color: #FFD700; vertical-align: top;"> NM-O-07: Preparation of mesoporous organosilicas containing Tröger base builders. Textural and catalytic implications Estibaliz Merino, E. Poly, U. Diaz, D. Brunel, A. Corma, <i>Valencia, Spain</i> </td> </tr> </table> | Th-O-05: N ₂ O Decomposition in the absence of NO. Why does Fe-ferrierite have a superior activity with respect to Fe-ZSM-5 and Fe-beta? A combined DFT and multi-spectroscopic study Stepan Sklenak , Z. Sobalik, <i>Prague, Czech Republic</i> | NM-O-07: Preparation of mesoporous organosilicas containing Tröger base builders. Textural and catalytic implications Estibaliz Merino , E. Poly, U. Diaz, D. Brunel, A. Corma, <i>Valencia, Spain</i> | | |
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| 10.40-11.00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #90EE90; vertical-align: top;"> Th-O-06: Formation of zeolite like structure in template hydration layers Alan Lobo, D. Lewis, B. Slater, K. Butler, <i>London, UK</i> </td> <td style="background-color: #FFD700; vertical-align: top;"> NM-O-08: Mesopores Generation in ZSM-5 Crystals by Nuclear Tracks Imprinting Valentin Valtchev, E. Balanzat, V. Mavrodinova, I. Diaz, J. El Fallah, J.M. Goupil, <i>Caen, France</i> </td> </tr> </table> | Th-O-06: Formation of zeolite like structure in template hydration layers Alan Lobo , D. Lewis, B. Slater, K. Butler, <i>London, UK</i> | NM-O-08: Mesopores Generation in ZSM-5 Crystals by Nuclear Tracks Imprinting Valentin Valtchev , E. Balanzat, V. Mavrodinova, I. Diaz, J. El Fallah, J.M. Goupil, <i>Caen, France</i> | | |
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| 11.00-11.30 | Coffee Break | | | | |
| | ROOM AUDITORIUM 1 | | | | |
| 11.30-11.50 | <p style="text-align: center;">5th FEZA Prize for PhD work: Lukasz Karwacki Opening the "Black Box" - a combined characterization approach to zeolite crystals <i>Chair: G. N. Vayssilov</i></p> | | | | |
| 11.50-12.50 | <p style="text-align: center;">PLENARY 5: Ferdi Schüth The formation of zeolites from solution - analysis by mass-spectrometry <i>Chair: J. Lercher</i></p> | | | | |
| 12.50-13.30 | CLOSING REMARKS | | | | |



5th INTERNATIONAL
FEZA
conference



SC-P-001-Mon-001 Could natural Serbian clinoptilolite efficiently remove metal ions from aqueous solutions and also be converted into a novel material after being metal-loaded?
Rajic, Nevenka; Stojakovic, Djordje; Hrenovic, Jasna; Recnik, Aleksander

SC-P-002-Mon-002 Expanding the Concept of Zeolite Structures into a New Dimension Integrating 3-D Frameworks and Various Layered Forms
Roth, Wieslaw; Dorset, Douglas; Cejka, Jiri

SC-P-003-Mon-003 Rapid Synthesis of Zeolitic Imidazolate Framework-8 (ZIF-8) Nanocrystals in Aqueous System
Pan, Yichang; Lai, Zhiping

SC-P-004-Mon-004 IRMS-TPD study Strong acid site of USY zeolite created by the post-treatment of NH_4NO_3 and its application
Okumura, Kazu; Tomiyama, Takuya; Katada, Naonobu; Niwa, Miki

SC-P-005-Mon-005 Flash induction calcination a powerful tool for total template removal and fine tuning of the hydrophobic/hydrophilic balance in silica-based mesoporous materials
Benamor, Taissire

SC-P-006-Mon-006 Preparation of Adjustable Metal Doping Aluminophosphate Molecular Sieves
Li, Jiyang; Wang, Yanyan; Shao, Lang; Li, Xu; Wu, Junbiao; Yu, Jihong

SC-P-007-Mon-007 Hydrothermal Synthesis of Porous Beryllate Materials Zeolite Inspired Frameworks
Littlefield, Benjamin; Weller, Mark

SC-P-008-Mon-008 Synthesis and characterisation of novel late first-row transition metal fluorophosphate frameworks
Williams, Edward; Armstrong, Jennifer; Weller, Mark

SC-P-009-Mon-009 Interzeolite conversion process of FAU type zeolite
Itakura, Masaya; Ide, Yusuke; Sadakane, Masahiro; Sano, Tsuneji

SC-P-010-Mon-010 Upgrading mesoporosity of ultrastable Y via sequential desilication and dealumination
Shen, Baojian; Qin, Zhengxing; Gao, Xionghou; Guo, Qiaoxia; Wang, Baojie

SC-P-011-Mon-011 Alumina –supported Ni catalysts prepared by successive impregnation methods for steam reforming of methane to syngas
Salhi, Nassima; Boulahouache, Ali; Bellacel, Mounia; Benadji, Sihem; Rabia, Cherifa

SC-P-012-Mon-012 Hydrothermal conversion of FAU zeolite in the absence of organic structure-directing agents
Yashiki, Ayako; Fujimoto, Ayumi; Shibata, Shohei; Honda, Koutaro; Ide, Yusuke; Sadakane, Masahiro; Sano, Tsuneji

SC-P-013-Mon-013 Boron in extra-large pore UTL zeolites type, localization and strength of acid centers
Shvets, Oleksiy; Shamzhy, Mariya; Yaremov, Pavel; Solomakha, Vladimir; Chlubná, Pavla; Cejka, Jiri

SC-P-014-Mon-014 Significance of Synthesis Solution pH on the Structural Characteristics of Mesoporous MCF and SBA-15-like Materials
Dogu, Gulsen; Aktas, Ozge; Yasyerli, Sena; Dogu, Timur

SC-P-015-Mon-015 Thermodynamics of hydrogen adsorption on the metal-organic frameworks MIL-100(Cr) and MIL-101(Cr)

Turnes Palomino, Gemma; Palomino Cabello, Carlos; Otero Areán, Carlos

SC-P-016-Mon-016 Post-synthesis modifications of TUN zeolite

Kubu, Martin; Žilková, Nadežda; Cejka, Jiri

SC-P-017-Mon-017 Interconnected mesopores and high accessibility in UVM-7-like silicas

Amorós, Pedro; Pérez-Cabero, Mónica; Hungría, Ana B.; Morales, José Manuel; Tortajada, Marta; Ramón, Daniel; Moragues, Alaina; El Haskouri, Jamal; Beltrán, Daniel

SC-P-018-Mon-018 Embedded oxidic nanodomains inside mesoporous silicas effective inorganic anchors for metal noble nanoparticles

Amorós, Pedro; El Haskouri, Jamal; Fernández, Lorenzo; Guillem, Carmen; Latorre, Julio; Beltrán, Aurelio; Solsona, Benjamin; Beltrán, Daniel; Pérez-Cabero, Mónica

SC-P-019-Mon-019 Connectivity analysis of aluminum and silicon in the clear sol precursor of SSZ-13 chabazite-type zeolite

Eilertsen, Einar André; Haouas, Mohamed; Lillerud, Karl Petter; Taulelle, Francis.

SC-P-020-Mon-020 Particle manipulation during flow synthesis of mesoporous silica

Ng, Tsz Nok; Chen, Xinqing; Yeung, King Lun

SC-P-021-Mon-021 The role of metal cations as templating species in chabazite framework formation

Van Tendeloo, Leen; Gobechiya, Elena; Martens, Johan; Kirschhock, Christine

SC-P-022-Mon-022 Research of zeolites crystallization in the systems $\text{SiO}_2\text{-Al}_2\text{O}_3\text{-Na}_2\text{O-K}_2\text{O-TEA}_2\text{O}$

Nikolaeva, Elena; Golubeva, Olga

SC-P-023-Mon-023 Preparation of Sn-Beta by secondary methods

Osmundsen, Christian Mårup; Ståhl, Kenny; Taarning, Esben

SC-P-024-Mon-024 Direct in-situ synthesis of preferentially b-oriented zeolite MFI layers

Hrabanek, Pavel; Zikanova, Arlette; Drahokoupil, Jan; Matejkova, Martina; Jirka, Ivan; Brabec, Libor; Fila, Vlastimil; Bernauer, Bohumil; Kocirik, Milan

SC-P-025-Mon-025 Direct synthesis and characterization of AISBA-3

Janiszewska, Ewa; Kowalak, Stanislaw

SC-P-026-Mon-026 FT-IR studies on FAU and MFI type protonic zeolites partially exchanged with alkali-metal cations

Fiol Bibiloni, Gabriel; Rodríguez Delgado, Montserrat; Otero Arean, Carlos

SC-P-027-Mon-027 Full compositional flexibility in the preparation of mesoporous zeolites by desilication

Verboekend, Danny; Milina, Maria; Mitchell, Sharon; Pérez-Ramirez, Javier

SC-P-028-Mon-028 Influence of the thermal treatment on the textural properties of hierarchically ordered porous alumina

Passos, Aline; Martins, Leandro; Santilli, Celso

SC-P-029-Mon-029 Design of macro-mesopores in zirconia ceramics by emulsion templating

Rosa, Marinalva; Martins, Leandro; Pulcinelli, Sandra; Santilli, Celso

SC-P-030-Mon-030 Synthesis, characterization and adsorption properties of functionalized SBA-16 nanoporous materials

Barczak, Mariusz; Oszust-Cieniuch, Monika; Dabrowski, Andrzej

SC-P-031-Mon-031 Effect of crystallization time on the particle size of beta nanozeolites

Grecco, Saulo; Silva, Edilene; Urquieta-González, Ernesto; Rangel, Maria

SC-P-032-Mon-032 Effect of Zeolite Cage Size on the Methanol-to-Olefins Reaction
Bhawe, Yashodhan; Moliner-Marin, Manuel; Liu, Yu; Malek, Andre; Kilos, Beata; Davis, Mark

SC-P-033-Mon-033 The effect of the kind of organosilane on the textural properties of beta nanozeolite-based catalysts
Rangel, Maria; Carvalho, Diego; Grecco, Saulo; Silva, Edilene; Urquieta-González, Ernesto

SC-P-034-Mon-034 Minimum layer thickness for characteristic zeolite behavior
Verheyen, Elke; Jo, Changbum; Martens, Johan; Ryoo, Ryong; Kirschhock, Christine

SC-P-035-Mon-035 Study of the influence of basicity and borohydride -nitrate anionic composition in the synthesis of the cancrinite-sodalite system
Ocano Uzcategui, Freddy William; Linares, Carlos Felipe; Torrealba, Francys; Urbina de Navarro, Caribay

SC-P-036-Mon-036 Preparation of Silicon (Oxy)Nitride with Various Regular Mesopore Structures thorough Nitridation of Silica with Ammonia
Iwamoto, Masakazu

SC-P-037-Mon-037 Synthesis and characterization of a family of beta zeotypes by an aging-drying method
Taborda, Farlán; Willhammar, Tom; Montes de C., Consuelo; Zou, Xiaodong

SC-P-038-Mon-038 Interlayer expanded Ti-MWW using different silylating agents
F. Madeira, Filipa; Imai, Hiroyuki; Yokoi, Toshiyuki; Nomura Kondo, Junko; Tatsumi, Takashi

SC-P-039-Mon-039 Synthesis of RTH-type zeolites with various types of organic compounds and their catalytic properties as an acid catalyst
Imai, Hiroyuki; Liu, Ming; Yoshioka, Masato; Yokoi, Toshiyuki; Kondo, Junko N.; Tatsumi, Takashi

SC-P-040-Mon-040 OSDA-Free Synthesis of Zeolites: How can we broaden zeolite types?
Okubo, Tatsuya; Itabashi, Keiji; Kamimura, Yoshihiro; Shimojima, Atsushi

SC-P-041-Mon-041 Zeolite Y crystals with trimodal porosity - 3D imaging using electron tomography
Zecevic', Jovana; Friedrich, Heiner; Gommès, Cedric J.; De Jongh, Petra E.; Bulut, Metin; Van Donk, Sander; Kenmogne, Régine; Fajula, François; De Jong, Krijn P.

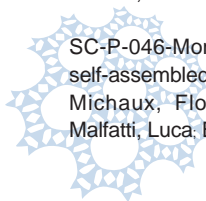
SC-P-042-Mon-042 The integral molar absorption coefficients of Cu⁺ carbonyl complexes formed in zeolites
Frolich, Karel; Koudelkova, Eva; Frydova, Eva; Bulanek, Roman

SC-P-043-Mon-043 Nb and Ta-FAU zeolites – the effect of preparation procedure on efficiency of metal incorporation and surface properties
Wojtaszek, Anna; Trejda, Maciej; Tielens, Frederik; Ziolk, Maria

SC-P-044-Mon-044 Preparation and in situ spectroscopic characterization of Cu-Clinoptilolite catalysts for the oxidative carbonylation of methanol
Bentrup, Ursula; Pérez Velez, Roxana; Elizalde Gonzales, Maria P.

SC-P-045-Mon-045 A Design-Application Approach for Unravelling the Synergistic Active Sites in Solid Catalysts
Leithall, Rebecca; Levy, Alan; Shetti, Vasudev; Gianotti, Enrica; Maurelli, Sara; Chiesa, Mario; Raja, Robert

SC-P-046-Mon-046 Time resolved in-situ characterization of hexagonal and cubic ilica/surfactant self-assembled systems
Michaux, Florentin; Baccile, Niki; Christel, Gervais; Impéror-Clerc, Marianne; Folliet, Nicolas; Malfatti, Luca; Babonneau, Florence



SC-P-047-Mon-047 NaH nanoparticles encapsulated in amorphous silica
Edwards, Peter; Sartbaeva, Asel.

SC-P-048-Mon-048 Effect of synthesis conditions on the structural properties of Ga-containing layered double hydroxides
Rives, Vicente; Alvarez, Alba; Trujillano, Raquel

SC-P-049-Mon-049 Hierarchical zeolites: IR studies of acid properties of zeolite ZSM-5 desilicated with NaOH and tetrabutylammonium hydroxide
Sadowska, Karolina; Sidor, Jolanta; Wach, Anna; Kustrowski, Piotr; Datka, Jerzy

SC-P-050-Mon-050 Mesoporous zeolite crystals with homogeneously distributed mesopores of controlled size induced by recyclable structuring agents
Chal, Robin; Cacciaguerra, Thomas; Minoux, Delphine; Van Donk, Sander; Gérardin, Corine

SC-P-051-Mon-051 Control of aluminum distribution in the framework of silicon rich zeolites effect on catalytic properties
Sobalik, Zdenek; Dedecek, Jiri; Sazama, Petr; Gabova, Vendula; Wichterlova, Blanka

SC-P-052-Mon-052 Characterization of Zeolite FAU-LTA Core-Shell Composites
Yun, Yifeng; Wang, Zhengyang; Wan, Wei; Su, Jie; Grüner, Daniel; Carrillo-Cabrera, Wilder; Zou, Xiaodong

SC-P-053-Mon-053 Synthesis with microwaves and characterization of mesoporous hectorites
Sánchez Motta, Tatiana; Salagre, Pilar; Cesteros, Yolanda

SC-P-054-Mon-054 Characterization of Ti and Fe doped ZnO nanostructured with mesopores for gas sensors applications
Somacescu, Simona; Scurtu, Rares; Calderón Moreno, José María; Dinescu, Adrian; Nechifor, Gheorghe

SC-P-055-Mon-055 Structural characterization of nanosized TiO₂ films inside SBA-15 pores
De Souza E Silva, Juliana; Strauss, Mathias; Maroneze, Camila; Pereira, Murilo; Gushikem, Yoshitaka; Mazali, Italo

SC-P-056-Mon-056 Mechanically flexible silica thin films with high mesoporosity and tunable pore sizes
Pulinthanathu Sree, Sreeprasanth; Dendooven, Jolien; Vantomme, André; Temst, Kristiaan; Baklanov, Mikhail; Jin Won, Seo; D'haen, Jan; Detavernier, Christophe; Martens, Johan

SC-P-057-Mon-057 Differences in hydrocarbons adsorption on PILCs of similar Zr (pillars) composition
Guil, José M.; Khatib, Sheima J.; Almarza, Noe G.; Gallardo, Alberto; Pires, Joao

SC-P-058-Mon-058 Synthesis of Metallic Nanoparticles inside Organized Mesoporous Materials
Buchwalter, Paulin

SC-P-059-Mon-059 Effects of Surfactant Addition on Crystallinity and Yield of MFI Zeolites in OSDA-Free Synthesis
Tago, Teruoki; Fujiwara, Saori; Konno, Hiroki; Nakasaka, Yuta; Masuda, Takao

SC-P-060-Mon-060 NMR studies of thermal stability of Zn-BTC
Cendak, Tomaž; Birsa Celic, Tadeja; Rangus, Mojca; Zabukovec Logar, Nataša; Mali, Gregor; Kaucic, Venceslav

SC-P-061-Mon-061 Studies of the uptake and decomposition mechanisms of volatile metal carbonyls in zeolites
Shepherd, Ashley; Howe, Russell

SC-P-062-Mon-062 Controlling structural properties in mesoporous materials with zeolitic features
Meynen, Vera; Vernimmen, Jarian; De Ménorval, Louis-Charles; Chiesa, Mario; Van Doorslaer, Sabine; Mertens, Myrjam; Kärger, Jörg; Van Tendeloo, Gustaaf; Cool, Pegie

SC-P-080-Mon-063 Morphology-Control of Ordered Mesoporous Carbons with Extremely High Porosity
Schuster, Jörg; Mandlmeier, Benjamin; Keilbach, Andreas; Köhn, Ralf; Döblinger, Markus; Amenitsch, Heinz; Dörfler, Thilo; Dennenwaldt, Teresa; Bein, Thomas

NM-P-001-Mon-064 MOF-type Aluminum Pyromellitates MIL-118, MIL-120 and MIL-121: Solid-State NMR Characterization
Haouas, Mohamed; Taulelle, Francis; Volkringer, Christophe; Loiseau, Thierry; Férey, Gérard

NM-P-002-Mon-065 Influence of the silica source to the ionic liquid templated zeolite synthesis
Ivanova, Svetlana; Martínez Blanes, José María; Romero Sarria, Francisca; Centeno, Miguel Angel; Odriozola, José Antonio

NM-P-003-Mon-066 Enhanced Capacity of $\text{Li}_2\text{MnSiO}_4$ Cathode Material in Framework of Periodic Mesoporous Carbons
Yoshitake, Hideaki; Kawase, Takashi

NM-P-004-Mon-067 Sulfur containing Ethene Bridged PMOs as Adsorbent and Catalyst
De Canck, Els; Van Der Voort, Pascal

NM-P-005-Mon-068 Entrapment of indigo and its derivatives into zeolite X, synthesis of new Maya Blue analogs
Zywert, Anna; Lukarska, Malgorzata; Kowalok, Stanislaw

NM-P-006-Mon-069 Niobium-doped titania nanoparticles and mesoporous films as transparent conductors
Liu, Yujing; Szeifert, Johann M.; Feckl, Johann M.; Mandlmeier, Benjamin; Rathousky, Jiri; Hayden, Oliver; Bein, Thomas; Fattakhova-Rohlfing, Dina

NM-P-007-Mon-070 ZIFs can breath !
Aguado, Sonia; Bergeret, Gerard; Pera-Titus, Marc; Moizan, Virginie; Nieto-Draghi, Carlos; Bats, Nicolas; Farrusseng, David

NM-P-008-Mon-071 Enhancement of catalytic activity in one-pot oxidation using $\text{Pd}/\text{SiO}_2@\text{Ti}$ containing mesoporous silica core-shell type catalyst
Okada, Shusuke; Kamegawa, Takashi; Mori, Kohsuke; Yamashita, Hiromi

NM-P-009-Mon-072 Formation of surface Diels-Alder adducts on ethenylene-bridged periodic mesoporous organosilicas
Romero-Salguero, Francisco José; Esquivel, Dolores; De Canck, Els; Jiménez-Sanchidrián, César; Van Der Voort, Pascal

NM-P-010-Mon-073 Synthesis of functionalized ordered mesoporous resins
Bozejewicz, Witold; Dzitko, Jakub; Kowalok, Stanislaw

NM-P-011-Mon-074 Kaolinite-Polymer compounds: 2-hydroxyethyl methacrylate and 3-(trimethoxysilyl)propyl methacrylate grafted on kaolinite
Ferreira, Breno; Calefi, Paulo Sergio; Ciuffi, Katia; Nassar, Eduardo; Vicente, Miguel Angel; Trujillano, Raquel; De Faria, Emerson

NM-P-012-Mon-075 Catalytic applications of microwave-assisted synthesized saponites
Trujillano, Raquel; Rico, Elena; Vicente, Miguel Ángel; Rives, Vicente; Ciuffi, Katia; Cestari, Alexandre; Gil, Antonio; Korili, Sofia



NM-P-013-Mon-076 Preparation of Antimicrobial Surfaces with Zeolites
Ustaoglu, Zeynep; Bac, Nurcan; Sahin, Fikrettin; Demirci, Selami

NM-P-014-Mon-077 A novel procedure for the preparation of mesoporous crystalline tin dioxide films with large pores and fully crystalline walls
Fattakhova-Rohlfing, Dina; Rathousky, Jiri

NM-P-015-Mon-078: Functional ordered mesoporous silica materials prepared with reversible and functionalizing micelles of hydrophilic block copolymers
Gerardin, Corine; Warnant, Jerome; Reboul, Julien; Layrac, Geraldine; Jerome, Christine; Lacroix-Desmazes, Patrick; In, Martin

NM-P-016-Mon-079: Dual-Porogenic Surfactant-Driven Synthesis of Disordered Mesoporous Molecular Sieves Built with Microporous Zeolite Beta Framework
Na, Kyungsu; Jo, Changbum; Kim, Jeongnam; Cho, Kanghee; Jung, Jinhwan; Ryoo, Ryong

NM-P-017-Mon-080 Synthesis of porous clay heterostructures (PCH's) formed from synthetic high charge mica: Effect of time on the synthesis.
Perdigón, Ana C.; Pesquera, Carmen; Saavedra, Ana; Ortiz, Belen; González, Fernando; Blanco, Carmen

NM-P-018-Mon-081 Advances in the Synthesis of Permanently Porous Phosphonate MOF's Based on N,N'-piperazinebis(methylenephosphonate) and Related Linkers
Wharmby, Michael T.; Mowat, John P. S.; Pearce, Gordon M.; Miller, Stuart R.; Stock, Norbert; Wright, Paul A.

NM-P-019-Mon-082 Synthesis and characterization of Ru supported on carbon nanofibers
Jiménez, Vicente; Sánchez, Paula; Valverde, José Luis; Romero, Amaya

NM-P-020-Mon-083 Structural transformation of polyacrylonitrile deposited on mesoporous silicas by precipitation polymerization
Janus, Rafal; Kustrowski, Piotr; Wach, Anna; Drozdek, Marek; Dudek, Barbara; Piwowarska, Zofia; Cool, Pegie

NM-P-021-Mon-084 Proton sponges in hybrid mesoporous materials for base catalysis
Gianotti, Enrica; Diaz, Urbano; Corma, Avelino

NM-P-022-Mon-085 Revealing the Molecular Assembly of Zeolitic Imidazolate Frameworks through Atomic Force Microscopy
Cubillas, Pablo; Moh, Pak; Anderson, Michael; Attfield, Martin

NM-P-023-Mon-086 Catalytic activity of HKUST-1 coated on ceramic foam
Granato, Teresa; Olivo, Roberto; Testa, Flaviano; Katovic, Andrea; Aiello, Rosario

NM-P-024-Mon-087 Functional hybrid catalysts based in layered inorganic precursors pillared with bridged silsesquioxanes
García, Teresa; Díaz, Urbano; Velty, Alexandra; Corma, Avelino

NM-P-025-Mon-088 Luminescent mesostructured hybrid nanoparticles
Miletto, Ivana; Bottinelli, Emanuela; Caputo, Giuseppe; Coluccia, Salvatore; Gianotti, Enrica

NM-P-026-Mon-089 Computational study of the capability of transition metal exchanged zeolites for purification of hydrogen for fuel cell applications
Aleksandrov, Hristiyan; Petkov, Petko; Vayssilov, Georgi

NM-P-027-Mon-090 High quality PMO materials with excellent stability via fast synthesis methods
Smeulders, Geert; Silvestre-Albero, Ana; Houthoofd, Kristof; Rodríguez-Reinoso, Francisco; Martens, Johan; Van Tendeloo, Gustaaf; Maes, Bert; Cool, Pegie; Meynen, Vera

NM-P-028-Mon-091 New zeolites COE-3 and COE-4 obtained by interlayer expansion of layered silicate RUB-36: Structure analysis
Gies, Hermann; Yilmaz, Bilge; Müller, Ulrich; Xiao, Fengshou; Tatsumi, Takashi; Devos, Dirk; Bao, Xinh

Th-P-001-Mon-092 Acidic Properties of Small Pore Zeolites with Different Framework Topologies and Their SAPO Analogues
Katada, Naonobu; Nouno, Kazuma; Lee, Jun Kyu; Shin, Jiho; Hong, Suk Bong; Niwa, Miki

Th-P-002-Mon-093 Optimizing force field parameters for guest-zeolite interactions
Vlugt, Thijs; Eggink, Emma; García Sánchez, Almudena; Mcgarrity, Erin; Calero, Sofia

Th-P-003-Mon-094 Development and test of modified zeolite catalysts activity in oxidation reaction of n-propyl alcohol
Tagiyev, Dilgam; Fatullayeva, Sevda; Aliyev, Agadadash; Mejidova, Solmaz; Ali-Zadeh, Gulya

Th-P-004-Mon-095 Catalysis by a non-functionalized Metal-Organic Framework: Acido-basicity at the external surface of ZIF-8
Chizallet, Céline; Lazare, Sandrine; Bazer-Bachi, Delphine; Bonnier, Fabien; Lecocq, Vincent; Soyer, Emmanuel; Quoineaud, Anne-Agathe; Bats, Nicolas

Th-P-005-Mon-096 New Insights into Substrate Binding and Activation by Cationic Sites in Zeolites: ETS-NOCV Perspective
Broclawik, Ewa; Zalucka, Joanna; Kozyra, Pawel; Mitoraj, Mariusz; Datka, Jerzy

Th-P-006-Mon-097 The Kinetic Monte Carlo Simulations Study of the Self-Diffusivity in the One-dimensional Lattice Gas Model with Two Non-equivalent Sites
Tarasenko, Alexander; Jastrabik, Lubomir

Th-P-007-Mon-098 Adsorption and diffusion phenomena of n-hexane within MFI-type zeolite in vapor phase
Nakasaka, Yuta; Kawahara, Takahito; Konno, Hiroki; Tago, Teruoki; Masuda, Takao

Th-P-008-Mon-099 Flexibility of ZIF-8 through experiments and simulations: swing effect of imidazolate rings in SOD topology
Fairen-Jimenez, David; Moggach, Stephen A.; Wharmby, Michael T.; Wright, Paul A.; Parsons, Simon; Düren, Tina

Th-P-009-Mon-100 Multi-scale simulations of structure directing effect in zeolite synthesis
Szyja, Bartek; Van Santen, Rutger; Hensen, Emiel

Th-P-010-Mon-101 Proton redistribution in silicon island of SAPO material
Zokaie, Mahsa; Olsbye, Unni; Lillerud, Karl Petter; Swang, Ole

Th-P-011-Mon-102 Insights Into Kinetically Driven Molecular Separations in 8-ring Zeolites from Molecular Dynamics
Combariza, Aldo F.; Sastre, German; Corma, Avelino

Th-P-012-Mon-103 Location of diphenyl-polyene within non acidic zeolites. A combined theoretical and spectroscopic study of the sorption sites
Hureau, Matthieu; Moissette, Alain; Bremard, Claude

Th-P-013-Mon-104 Influence of organic ligand functionalization on the adsorption properties of flexible MIL-53(Fe) materials: a study by experiments and computations
Ramsahye, Naseem; Khuong-Trung, Thuy; Devic, Thomas; Horcajada, Patricia; Yot, Pascal; Serre, Christian; Fajula, Francois; Ferey, Gerard; Trens, Philippe

Th-P-014-Mon-105 Effect of linker substituents on the epoxidation performance of V-MIL-47
Vandichel, Matthias; Leus, Karen; Liu, Ying-Ya; Waroquier, Michel; Van Der Voort, Pascal; Van Speybroeck, Veronique

Th-P-015-Mon-106 Confinement Effects of H₂ Adsorption in MOF's
Sastre, German; Combariza, Aldo F.; Gómez, Diego A.

Th-P-016-Mon-107 First Principles Characterization of H₂ Adsorption in MOF's
Sastre, Germán; Gómez, Diego A.

Th-P-017-Mon-108 Synthesis and tuning of bimodal materials with zeolitic features
Van Oers, Cynthia J.; Mertens, Myrjam; Meynen, Vera; Cool, Pegie

PE-P-001-Mon-109 Methanol transformation in presence of ethylene

Struelens, Pieter; Jacobs, Pierre; Nesterenko, Nikolay; Minoux, Delphine; Dath, J.P.

PE-P-002-Mon-110 Liquid Fuels Via Zeolite-Supported Hybrid Fischer-Tropsch Catalysts

Saxton, Robert; Kibby, Charles; Jothimurugesan, Kandaswamy; Das, Tapan

PE-P-003-Mon-111 Key Role of Zeolite Pore Structure for Selective Production Propylene from Pentene and Hexene

Baba, Toshihide; Iwase, Yasuyoshi; Koyama, To-Ru; Munakata, Hajime; Miyaji, Akimitsu; Motokura, Ken

PE-P-004-Mon-112 A Very Efficient Process for the Transformation of Methyl Mercaptan to Hydrocarbons and H₂S on Solid Acid Catalysts

Coq, Bernard; Hulea, Vasile; Huguet, Edouard; Durand, Robert; Leroi, Catherine; Cadours, Renaud

PE-P-005-Mon-113 Conversion of ethanol into light olefins over phosphorus-modified HZSM-5(Ga) zeolite

Furumoto, Yoshiyasu; Harada, Yasumitsu; Tsunoji, Nao; Ide, Yusuke; Sadakane, Masahiro; Sano, Tsuneji

PE-P-006-Mon-114 Tungstophosphoric Acid Incorporated Silicate Structured Nanocomposite Mesoporous Solid Acid Catalysts: Alcohol Dehydration Applications

Varisli, Dilek; Ciftci, Aysegul; Dogu, Gulsen; Dogu, Timur

PE-P-007-Mon-115 Conversion of Methanol to Diesel by Catalytic Cascade Reactions

LacARRIERE, Antoine; Robin, Julien; Swiercynski, Dariusz; Finiels, Annie; Fajula, François; Hulea, Vasile; Luck, Francis

PE-P-009-Mon-117 Enhanced photoluminescence emission and photooxidation activity of the anchored Pt(II) pyridyl complex onto mesoporous silica

Mori, Kohsuke; Watanabe, Kentaro; Yamashita, Hiromi

PE-P-010-Mon-118 Reversible NO_x storage on Ru zeolites

Heylen, Steven; Smeekens, Sylvia; Kirschhock, Christine; Martens, Johan A.

PE-P-011-Mon-119 Oxygen Precursor to the Reactive Intermediate in Methanol Synthesis by Cu-ZSM-5

Vanelderen, Pieter; Smeets, Pieter J.; Hadt, Ryan G.; Woertink, Julia S.; Schoonheydt, Robert A.; Sels, Bert F.; Solomon, Edward I.

PE-P-012-Mon-120 Catalytic Behaviour and Adsorption Properties of Modified Mordenites for Low Temperature n-Butane Conversion

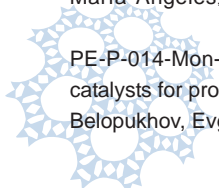
Tagiyev, Dilgam; Abasov, Safa; Fatullayeva, Sevda; Starikov, Roman

PE-P-013-Mon-121 Isomerization of 1-alkenes on K-modified H-ZSM-5 zeolites

Jiménez-Sanchidrián, César; Coletto, Inés; Esquivel, Dolores; López, María Isabel; Carmona, María Ángeles; Mora, Manuel; Ruiz, José Rafael; Romero-Salguero, Francisco José; Roldán, Rafael

PE-P-014-Mon-122 Hydroisomerization of benzene and n-heptane on platinum mordenite-alumina catalysts for production of the ecological fuels

Belopukhov, Evgeny; Belyi, Alexander; Kiryanov, Dmitriy; Smolikov, Mikhail



PE-P-016-Mon-124 Application of immobilized on tin dioxide lipase from *Bacillus stearothermophilus* M7 in a wax-ester synthesis
Guncheva, Maya; Dimitrov, Momtchil; Zhiryakova, Diana

PE-P-017-Mon-125 Performance of tungstophosphoric acid loaded sba-15 catalysts in degradation reaction of Polyethylene
Sezgi, Naime Asli; Aydemir, Bugçe; Dogu, Timur

PE-P-018-Mon-126 NiMo/SBA-15 catalysts prepared with citric acid: an interesting behavior in dibenzothiophene hydrodesulfurization
Valencia, Diego; Pérez, Óscar; Klimova, Tatiana

PE-P-019-Mon-127 The effect of alkali metals in gold-modified zeolites on the adsorptive-catalytic deodorization
Sobczak, Izabela; Ryzd, Michal; Ziolek, Maria

PE-P-020-Mon-128 The structure effect of sulphonated SBA-15 and MCF on niobium incorporation and catalytic behaviour in glycerol esterification
Stawicka, Katarzyna; Trejda, Maciej; Ziolek, Maria

PE-P-021-Mon-129 Watching the Methanol to Olefin Process with Time and Space Resolved X-ray Diffraction
Wragg, David; O'brien, Matthew; Bleken, Francesca; Olsbye, Unni; Fjellvaag, Helmer; Weckhuysen, Bert

PE-P-022-Mon-130 Investigation of isomerization and hydrocracking of Fischer-Tropsch wax on Pt/AISBA-15 and Pt/MCM-22 catalysts
Pölczmán, György; Valyon, József; R. Mihályi, Magdolna; Kollár, Márton; Eller, Zoltán; Hancsók, Jenő

PE-P-023-Mon-131 Vanadium species supported on inorganic oxides as catalysts for propene epoxidation
Held, Agnieszka; Kowalska-Kus', Jolanta; Nowinska, Krystyna

PE-P-024-Mon-132 Insertion of extraframework Fe species into zeolite T positions under NH₃-SCR conditions
Maier, Sarah; Jentys, Andreas; Janousch, Markus; Van Bokhoven, Jeroen; Lercher, Johannes

PE-P-025-Mon-133 Desulfurization of FCC gasoline Alkylation of 3-methylthiophene with olefins over acidic zeolites.
Dupuy, Benoit; Richard, Frederic; Laforge, Sebastien; Magnoux, Patrick

PE-P-026-Mon-134 Beneficial effect of coke via radical formation for ethanol transformation into hydrocarbons
Ben Tayeb, Karima; Pinard, Ludovic; Laforge, Sebastien; Maury, Sylvie; Vezin, Herve

PE-P-027-Mon-135 Scorpionate complexes supported in desilicated MOR zeolite. Catalytic oxidation of cyclohexane in heterogeneous medium
Martins, Angela; Monteiro, Rita; Andrade, Marta; Carvalho, Ana Paula; Martins, Luísa; Silva, Telma; Alegria, Elisabete; Pombeiro, Armando

PE-P-028-Mon-136 Catalytic cracking of hexane over MCM-68 zeolite
Kubota, Yoshihiro; Kubota, Yoshihiro; Inagaki, Satoshi; Takechi, Kazuyoshi

PE-P-029-Mon-137 Oxygen mobility enhancement over ceria/zeolite hybrid catalysts: catalytic air pollution abatement application.
Maupin, Irène; Mijoin, Jérôme; Barbier, Jacques Jr.; Bion, Nicolas; Belin, Thomas; Magnoux, Patrick

PE-P-030-Mon-138 Mössbauer studies of the nature and redox properties of Fe species in iron ferrierites catalysts
Tabor, Edyta; Záveta, Karel; Tvaruzková, Zdenka; Sobalík, Zdenek

PE-P-031-Mon-139 Synthetic fuels from the new Fischer-Tropsch Co/SiC catalyst. Influence of alkali-earth promoter.
de la Osa, Ana Raquel; de Lucas, Antonio; Valverde, José Luis; Romero, Amaya; Díaz-Maroto, Javier; Sánchez, Paula

PE-P-032-Mon-140 Bifunctional catalytic conversion of cellulose into hexitols
Geboers, Jan; Van De Vyver, Stijn; Carpentier, Kevin; Jacobs, Pierre; Sels, Bert

PE-P-033-Mon-141 Nickel-Zirconia Core-Shell Nanostructures for Dry Reforming Of Methane
Nouroozi, Fatemeh; Peters, Andreas; Gläser, Roger

PE-P-034-Mon-142 Kinetic Study of Hydrogen Production by Catalytic Decomposition of Methane over Mesostructured Carbons
Serrano, David P.; Botas, J. Ángel; Pizarro, Patricia; Gómez, Gema; Martín, Juan

FC-P-001-Mon-143 Exceptionally Highly Selective Bisphenol A Synthesis on a Layered Silicate with Spatially Arranged Propyl Sulfonic Acid
Ide, Yusuke; Kagawa, Noriko; Sadakane, Masahiro; Sano, Tsuneji

FC-P-002-Mon-144 Catalytic activity of ionic Au³⁺ supported on mesoporous MgF₂ in the diastereoselective one-pot synthesis of (+) menthol from rac-citronellal
Parvulescu, Vasile I.; Wuttke, Stefan; Kemnitz, Erhard; Coman, Simona M.; Negoii, Alina; Tudorache, Madalina

FC-P-003-Mon-145 Benzylolation of benzene with benzyl alcohol on zeolite catalysts
Parvulescu, Vasile I.; Candu, Natalia; Coman, Simona M.; Tudorache, Madalina

FC-P-004-Mon-146A study of the effect of electron donating and electron withdrawing groups on the catalytic performance of V-MIL-47
Leus, Karen; Vandichel, Matthias; Liu, Yingya; Marin, Guy B.; Waroquier, Michel; Van Speybroeck, Veronique; Van Der Voort, Pascal

FC-P-005-Mon-147 Acylation of p-xylene over Zeolites and MOF's
Prochazkova, Dana; Kurfirtova, Lenka; Pavlatova, Jana; Zilkova, Nadezda; Cejka, Jiri

FC-P-006-Mon-148 The sulfonation of mesoporous phenolic resins and their catalytic activity as acid solid catalyst in esterification reactions
Muylaert, Ilke; De Canck, Els; Spileers, Jeremy; Verberckmoes, An; Van Der Voort, Pascal

FC-P-007-Mon-149 Acidic and Catalytic Properties of Mesoporous SBA-15 Aluminosilicates Synthesized by pH-adjusting Method
Hulea, Vasile; Ungureanu, Adrian; Dragoi, Brandusa; Dumitriu, Emil; Meloni, Daniela; Solinas, Vincenzo

FC-P-008-Mon-150 Synergistic effects of encapsulated phthalocyanine complexes in MIL-101 for the selective aerobic oxidation of tetralin
Lescouet, Tristan; Kockrick, Emanuel; Kudrik, Evgeny; Sorokin, Alexander; Farrusseng, David

FC-P-009-Mon-151 Evidence for Polyoxometalates Encapsulation in the Mesocavities of MIL-101(Cr) and its Excellent Performance as Catalyst
Juan-Alcaniz, Jana; Ramos-Fernández, Enrique; Gascon, Jorge; Kapteijn, Freek

FC-P-010-Mon-152 Metal organic frameworks with zeolitic topologies as catalysts for mild oxidation
Florzczak, Patryk; Kedzierska, Kamila; Kowalak, Stanislaw

FC-P-011-Mon-153 Oxidative dehydrogenation of C₂-C₄ hydrocarbons over Fe-ZSM-5 zeolites in the presence of N₂O
Kowalska-Kus, Jolanta; Nowinska, Krystyna

FC-P-012-Mon-154 One-step synthesis of methyl isobutyl ketone over Pd-containing zeolite MFI
Nikitina, Maria; Ordomsky, Vitaly; Ivanova, Irina

FC-P-013-Mon-155 Enantioselective hydrogenation of ethyl pyruvate on supported platinum systems:
optimisation of reaction conditions through factorial design
Montes, Vicente; Hidalgo-Carrillo, Jesús; Aramendía, María A.; Marinas, Alberto; Marinas, José María;
Urbano, Francisco José

FC-P-014-Mon-156 Chemoselective Alkylation of Aromatics with Benzyl Alcohol over Mesoporous
ZSM-5 with Enhanced Mesoporosity
Jin, Hailian; Ansari, Mohd Bismillah; Mo, Yong-Hwan; Park, Sang-Eon

FC-P-015-Mon-157 Asymmetric organocatalytic michael reaction of nitroalkens into trans-chalcone
with mesoporous silica having trans-1,2-diaminocyclohexane
Jeong, Eun-Young; Lim, Cheang-Rae; Park, Sang-Eon

FC-P-016-Mon-158 Synthesis of metalloporphyrin bridged periodic mesoporous organosilica as a
heterogeneous catalyst for Aerobic Baeyer-Villiger oxidation
Jeong, Eun-Young; Park, Sang-Eon.

FC-P-017-Mon-159 Synthesis and characterization of Au supported on carbonaceous materials-based
catalysts for the selective oxidation of glycerol
Gil Villarino, Sonia; Marchena, Miriam; Romero Izquierdo, Amaya; Valverde Palomino, José Luis

FC-P-018-Mon-160 Gas – phase hydrogenation of 2 – tert – butylphenol over Ni – based catalysts
Díaz López, José Antonio; Díaz Moreno, Rebeca; Romero Izquierdo, Amaya; Valverde Palomino, José Luis

FC-P-019-Mon-161 Acidic and catalytic properties of hierarchical zeolites and hybrid ordered
mesoporous materials assembled from MFI protozeolitic units
García, Rafael A.; Serrano, David P.; Vicente, Gemma; Linares, María; Cejka, Jirí; Procházková,
Dana

FC-P-020-Mon-162 Heterometallic Porphyrin-MOF $[Zn_2(ZnCuTCPP)(bpy)_{1.5}]$ (HP-MOF) and its
Application into Catalytic Oxidation
Lee, Seung-Yeop; Jeong, Eun-Young; Park, Sang-Eon

FC-P-021-Mon-163 Preparation and utilization of bifunctional catalyst based on layered double
hydroxides for benzylacetone preparation
Paterová, Iva; Vyskocilová, Eliška; Svacina, Petr; Tumová, Lenka; Cervený, Libor; Kovanda, František

FC-P-022-Mon-164 Cinnamyl alcohol preparation using Meerwein-Ponndorf-Verley reduction
Vyskocilová - Leitmannová, Eliška; Irglová, Dana; Paterová, Iva; Cervený, Libor

FC-P-023-Mon-165 Glucose oxidation using silica- and alumina-supported gold nano-particles
Mrowiec-Bialon, Julita; Odrozek, Klaudia; Gawel, Bartłomiej; Oye, Gisle; Didriksen,
Terje; Stoecker, Michael

FC-P-024-Mon-166 Preparation and utilization of perillyl acetate
Štekrová, Martina; Dudková-Paterová, Iva; Leitmannová-Vyskocilová, Eliška; Cervený, Libor

FC-P-025-Mon-167 Aldol condensation using zeolites
Becharová, Sarah; Vyskocilová-Leitmannová, Eliška; Cervený, Libor

FC-P-026-Mon-168 Metathesis catalyzed by methyltrioxorhenium
Zdenková, Radka; Vyskocilová-Leitmannová, Eliška; Cervený, Libor

FC-P-027-Mon-169 Immersion calorimetry as a tool to evaluate the catalytic performance of titanosilicate materials in the epoxidation of cyclohexene
Vernimmen, Jarian; Guidotti, Matteo; Silvestre-Albero, Joaquin; Jardim, Erika; Van Tendeloo, Gustaaf; Psaro, Rinaldo; Rodríguez-Reinoso, Francisco; Meynen, Vera; Cool, Pegie

SM-P-001-Mon-170 Multi-Component Adsorption of Heavy Metal Ions from Aqueous Solutions onto Nano-Structured Calcium Silicate
Klimsa, Martin; Barassi, Giancarlo; Borrmann, Thomas; Kinkel, Joachim

SM-P-002-Mon-171 Preparation of Silicalite Pervaporation Membrane for Concentrating Ethanol from Ethanol-water Mixture
Negishi, Hideyuki; Ikegami, Toru; Sakaki, Keiji

SM-P-003-Mon-172 Variable-temperature FT-IR studies on the thermodynamics of CO, N₂ and CO₂ adsorption on zeolite H-Beta
Rodríguez Delgado, Montserrat; Otero Arean, Carlos

SM-P-004-Mon-173 Sorption of Cu(II) onto a Nano-Structured Calcium Silicate Hydrate
Barassi, Giancarlo; Klimsa, Martin; Borrmann, Thomas; Kinkel, Joachim

SM-P-005-Mon-174 Synthesis of titanosilicates at a mild condition and post-treatment for selectivity enhancement
Kim, Young-Hun; Jeon, Jongwon

SM-P-006-Mon-175 Olefin Paraffin separation turned on its head. Selective adsorption and separation of short chain paraffins via gate opening effects in the Metal Organic Framework ZIF-7
Gascon, Jorge; Gucuyener, Canan; Van Den Bergh, Johan; Kapteijn, Freek

SM-P-007-Mon-176 DD3R: Challenge with the synthesis, great potential for the separation of small hydrocarbons
Gücüyener, Canan; Van Den Bergh, Johan; Martínez Joaristi, Alberto; Gascon, Jorge; Kapteijn, Freek

SM-P-008-Mon-177 PSA process for CO₂/N₂ separation in real condition on an ultramicroporous MOF (SIM-1)
Aguado, Sonia; Farrusseng, David

SM-P-009-Mon-178 Catalytic conversion of alcohols in packed bed zeolite membrane reactor
Fedosov, Daniil; Smirnov, Andrey; Knyazeva, Elena; Ivanova, Irina; Trusov, Lev

SM-P-010-Mon-179 Influence of Intermetallic Diffusion Barrier on Pd Membranes
Sayyar, Mohammad Hossein; Rasouli, Milad; Chitsazan, Sahar; Yaghoobi, Nakisa

SM-P-011-Mon-180 Influence of structural properties of original mesoporous LTA zeolite generated by using organosilane surfactant on their ion-exchange behaviour
Devautour-Vinot, Sabine; Marchandea, Franck; Prélôt, Bénédicte; Gérardin, Emilie; Zajac, Jureck; Douillard, Jean-Marc; Ryoo, Ryong

SM-P-012-Mon-181 Application of Pd and Cu-supported SBA-15 in the adsorption of benzothiophene
Rodríguez Castellón, Enrique; Vilarrasa-García, Enrique; Azevedo, Diana C.S.; Braos-García, Pilar; Moreno-Tost, Ramón; Infantes Molina, Antonia; Cavalcante Jr., Celio L.; Jiménez López, Antonio

SM-P-013-Mon-182 High flux ZSM-5 membrane in advanced oxidation reactor for treating endocrine disrupting compounds
Chan, Wai Kit; Ng, Tsz Nok; Yeung, King Lun

SM-P-014-Mon-183 Selective CO₂ Separation of an Elastic Layer-structured MOF with a Sorption Column
Song, Chi; Itoh, Tsutomu; Kondo, Atsushi; Kajiro, Hiroshi; Ohba, Tomonori; Kaneko, Katsumi; Kanoh, Hirofumi

SM-P-015-Mon-184 Modeling the regeneration of a silicalite column saturated with liquid ethanol by air purge

Delgado Dobladez, José Antonio; Uguina Zamorano, María Angeles; Agueda Mate, Vicente Ismael; Sotelo Sancho, José Luis; Gómez, Pilar; Hernández, Verónica

SM-P-016-Mon-185 Adsorption and diffusion of nitrogen, methane and carbon dioxide in microwave synthesized ETS-4

Águeda Mate, Vicente Ismael; Delgado Dobladez, José Antonio; Uguina Zamorano, María Ángeles; Doutel, Erica; Hernández, Verónica

SM-P-017-Mon-186 Binary mixture adsorption of methanol and dimethylcarbonate on various zeolites

Oumi, Yasunori; Ueda, Hitoshi; Miyamoto, Manabu; Uemiya, Shigeyuki; Inuzuka, Toshiyasu; Sano, Tsuneji

SM-P-018-Mon-187 Hydrogen adsorption onto exchanged zeolites A and Y

Melouki, Redouane; Boucheffa, Youcef

SM-P-019-Mon-188 Second-Harmonic Generation Imaging of Guest Behaviour in Zeolites

Van Der Veen, Monique; Verbiest, Thierry; De Vos, Dirk

SM-P-020-Mon-189 Adsorption of polar volatile organic compounds on polymer-derived carbon supported on mesoporous alumina and silica

Kustrowski, Piotr; Janus, Rafal; Dudek, Barbara; Piwowarska, Zofia

SM-P-021-Mon-190 The use of diffusion cell dynamics for diagnostics of microporous membranes

Zikanova, Arlette; Fila, Vlastimil; Hrabanek, Pavel; Bernauer, Bohumil; Brabec, Libor; Jirka, Ivan; Kocirik, Milan

TA-P-001-Mon-191 In vitro controlled - release of nanobiomaterials based on captopril

Alexa, Iuliana Florentina; Ignat, Maria; Sunel, Valeriu; Popovici, Evelini

TA-P-002-Mon-192 Sulfur pigments with zeolite L matrices, the novel ultramarine analogs

Jankowska, Aldona; Koperska, Natalia; Hoffmann, Stanislaw; Goslar, Janina; Kowalak, Stanislaw

TA-P-003-Mon-193 Experimental characterization and technical evaluation on zeolites in different sized sorption thermal energy storage systems

Lass-Seyoum, Asnakech; Blicker, Mike; Borozdenko, Dmitry; Langhof, Timo; Friedrich, Thomas

TA-P-004-Mon-194 Metal-organic framework single crystals as photoactive matrices for the generation of metallic microstructures

Ameloot, Rob; B. J. Roeffaers, Maarten; De Cremer, Gert; Vermoortele, Frederik; Hofkens, Johan; F. Sels, Bert; E. De Vos, Dirk

TA-P-005-Mon-195 Detection of radiation damage on natural zeolite using cathodoluminescence

Nishido, Hirotsugu

TA-P-006-Mon-196 Removal of Toxic Heavy Metals from Water by Magnetic Mesoporous Nanosorbents

Chen, Xinqing; Ng, Tsz Nok; Arruebo, Manuel; Yeung, King Lun

TA-P-007-Mon-197 Double-layered Zeolite-Nafion Composite Membrane for Self-humidifying Micro Fuel Cell

Han, Wei; Cheung, Chun Tung; Poon, Ho Yee; Ng, Tsz Nok; Yeung, King Lun

TA-P-008-Mon-198 Synthesis of Nanoporous Co_3O_4 for VOC gas Sensors Applications

El-Safty, Sherif; Hoa, Nguyen

TA-P-009-Mon-199 Organic Dyes Removal from Water by Mesopore Cage Adsorbents
El-Safty, Sherif; Awual, Md. Rabiul; Khodary, Mohamed

TA-P-010-Mon-200 Design of Metal Organic Frameworks (MOF) for the Encapsulation, Transport and Release of Biological Molecules: a QSAR approach and Experiments
Gaudin, Cédric; Ivanoff, Emilie; Devautour-Vinot, Sabine; Maurin, Guillaume; Paula De Cuhna, Denise; Horcajada, Patricia; Serre, Christian; Chevé, Gwénael; Yasri, Aziz

TA-P-011-Mon-201 High-throughput characterization of porous materials with infraSORB
Wollmann, Philipp; Leistner, Matthias; Throl, Oliver; Grählerl, Wulf; Dreisbach, Frieder; Kaskel, Stefan

TA-P-012-Mon-202 Photocatalytic CO₂ Activation into CH₄ over Titania Dispersed Materials – Catalyst Screening and Mechanistic Evaluation
Yang, Chieh-Chao; Vernimmen, Jarian; Van Der Linden, Bart; Meynen, Vera; Cool, Pegie; Mul, Guido

TA-P-013-Mon-203 Multifunctional Materials with Tailored Properties, Tuneable Reactivity and Compatibility for Gas Sensing Application
Thomas, Sébastien; Bazin, Phillip; Robbes, Diddier; De Waele, Vincent; Mintova, Svetlana

TA-P-014-Mon-204 Hierarchical nanostructured carbon with multimodal porosity as cathode catalyst support in proton exchange membrane fuel cell
Yu, Jong-Sung; Kim, Min-Sik; Kim, Jung Ho; Song, Min Young; Yang, Dae Soo

RRR-02-Mon-205 Synthesis of microporous gallophosphates obtained by in situ decomposition of hexamethylphosphoramide
Tawbi, Khouloud; Simon-Masseron, Angélique; Patarin, Joël

RRR-03-Mon-206 Approaches to introduce zeolites in green/sustainable chemistry at the chemistry department, Addis Ababa University
Mamo, Wondimagegne; Getachew, Negash; Villar-García, Ignacio J.; Chebude, Yonas; Díaz, Isabel

RRR-04-Mon-207 Where are all the Vanadium MOF's?
Carson, Fabian; Wan, Wei; Yun, Yifeng; Zou, Xiaodong

RRR-05-Mon-208 Synthesis of Faujasite with Nanometric Crystals
Chaves, Thiago F.; Pastore, Heloise O.; Cardoso, Dilson

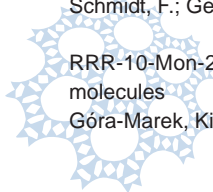
RRR-06-Mon-209 Low-temperature investigation of the zeolite paulingite
A, Bieniok; P, Göttig; U, Brendel

RRR-07-Mon-210
Molecular Dynamics Simulation of Water in IFR and TON Zeosils
G. Bushuev, Yu.; Sastre, G.

RRR-08-Mon-211 Computer-aided modeling of the self-assembly of aluminophosphate zeolites from polyhedral building units
V. Peskov, Maxim; Schwingenschlögl, Udo

RRR-09-Mon-212 Demetalation of ZSM-5 and the influence in the MTO process
Schmidt, F.; Gerds, A.; Kaskel, S.

RRR-10-Mon-213 Activation of CO molecule on Cu⁺ sites in CuZSM-5 – the impact of coadsorbed molecules
Góra-Marek, Kinga; Sadowska, Karolina; Datka, Jerzy



RRR-11-Mon-214 Comparison of IMF and MFI frameworks in the copper-zeolite catalyzed NH₃-SCR reaction

Vennestrøm, Peter N.r; Grill, Marie; Kustov, Arkady; Concepcion, Patricia; Corma, Avelino

RRR-12-Mon-215 FAU zeolites in the alkylation of industrial fractions of isobutane and olefins
Shiriazdanov, Rishat R.; Smirnov, Vladimir K.; Davletshin, Artur R.

RRR-13-Mon-216 A comparative study of high pressure storage of hydrogen and methane in microporous materials

Gil, A.; Korilia, S.a.; Vicente, M.a.; Trujillano, R.; Vallone, A.; García Blanco, A., Sapag, K.

RRR-14-Mon-217 Adsorption of fuel-based pollutants into high silica zeolite Y: An experimental and computational study

Bisio, Chiara; Braschi, Ilaria; Gatti, Giorgio; Sacchetto, Vittoria; Cossi, Maurizio; Marchese, Leonardo

RRR-15-Mon-218 Permeance and selectivity of helium and hydrogen in nanocomposite MFI-alumina hollow fibre for tritium processes

Borisevich, O.; Demange, D.; Parracho, T.; Pera-Titus, M.; Nicolas, C.-H.

RRR-01-Mon-219 Synthesis of the analcime with copper incorporated to the framework?

Palcic', Ana; Bronic', Josip; Subotic', Boris

SC-P-125-Mon-220 A novel reliable route for Li-A [ABW] synthesis

Aprea, P.; Caputo, D.; Gargiulo, N.; Gualtieri, A. F.; Colella, C.

SC-P-063-Wed-001 Nanocomposite materials: synthesis and characterization of self-bonded pellets containing titano silicates and carbon nanotubes

De Luca, Pierantonio; Sergi, Pietro; Vuono, Danilo; Aloise, Alfredo; Nagy, János

SC-P-064-Wed-002 Post-synthesis modification of MIL-101(Fe) with nickel and magnesium cations for hydrogen sorption applications

Zunkovic, Emanuela; Rangus, Mojca; Mazaj, Matjaž; Gabrovšek, Roman; Kaucic, Venceslav; Zabukovec Logar, Nataša

SC-P-065-Wed-003 An investigation of the role of acetone on the synthesis of two porous iron carboxylates

Birsa Celic, Tadeja; Zabukovec Logar, Nataša; Rangus, Mojca; Kaucic, Venceslav

SC-P-066-Wed-004 Synthesis of Hierarchical ZSM-5 Zeolite from Silanized Seeds Employing Silylated Polymers as Organosilanes

Serrano, David; Pinnavaia, Thomas J.; Aguado, José; Peral, Angel; Kim, Seong Su

SC-P-067-Wed-005 Influence of hydrogel "density" on synthesis of zeolite A

Bronic, Josip; Palcic, Ana; Subotic, Boris

SC-P-068-Wed-006 Synthesis of Highly Crystalline Nanosheets of MFI Zeolites under Static Conditions

Machoke, Albert; Selvam, Thangaraj; Schwieger, Wilhelm

SC-P-069-Wed-007 RUB-15 as layered precursor for 3-dimensional Interlayer Expanded Zeolites, IEZ

Grabowski, Sandra; Heinrich, Frances; Gies, Hermann

SC-P-070-Wed-008 IM-17: a new zeolite with an interrupted framework topology

Paillaud, Jean-Louis; Lorgouilloux, Yannick; Dodin, Mathias; Marichal, Claire; Caullet, Philippe; Bats, Nicolas

SC-P-071-Wed-009 Bactericidal action of cancrinite and A-type zeolites

Urbina De Navarro, Caribay; Ocanto, Freddy; Linares, Carlos Felipe; Brikgi, María; Reyes, Dorys; Rojas, Tomas; Martínez, Carlos

SC-P-072-Wed-010 Mesoporous ZSM-5 templated by an amphiphilic organosilane - Catalytic activity in the cyclohexane cracking

Silva, Edilene Da; Carvalho, Kele; Grecco, Saulo; Gonçalves, Alexandre; Urquieta-González, Ernesto Antonio

SC-P-073-Wed-011 Physicochemical characterization of CMK-1, CMK-3, and CMK-8 ordered mesoporous carbons modified with amino groups

Lezanska, Maria; Pietrzyk, Piotr

SC-P-074-Wed-012 Direct Synthesis of Thiol-functionalized Micro/Mesoporous Zeolites

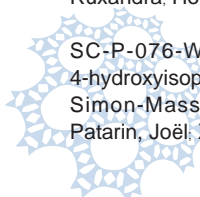
Wong, Ka-Lun; Goupil, Jean-Michel; Ruau, Valérie; Mintova, Svetlana

SC-P-075-Wed-013 A multifunctional iron trimesate MOF

Chang, Jong San; Hwang, Young Kyu; Vimont, Alexandre; Daturi, Marco; Llewellyn, Philip; Gref, Ruxandra; Horcajada, Patricia; Férey, Gérard; Serre, Christian

SC-P-076-Wed-014 Rational design and control of the dimension of MOF's based on 4-hydroxyisophthalate ligand

Simon-Masseron, Angélique; Wu, Lei; Chaplais, Gérald; Marler, Bernd; Graetsch, Heribert; Patarin, Joël; Xue, Ming; Zhu, Guang-Shan; Qiu, Shi-Lun



SC-P-077-Wed-015 Thermodesorption as a new tool to characterize hierarchical micro-/mesoporous materials

Manko, Maria; Makowski, Wacław; Coasne, Benoit; Galarneau, Anne

SC-P-078-Wed-016 Silica/alumina-clay heterostructures

Belver, Carolina; Aranda, Pilar; Ruiz-Hitzky, Eduardo

SC-P-079-Wed-017 Mesopore evaluation of microporous zeolite from N₂ gas adsorption isotherm

Nakai, Kazuyuki; Yoshida, Masayuki; Naono, Hiromitsu; Ueda, Kohtarō; Sekine, Yasushi; Kikuchi, Eiichi; Matsukata, Masahiko

SC-P-081-Wed-018 Influence of synthesis conditions on the generation of intercrystalline mesoporosity in CoAPO-5

Sastre, Enrique; Sánchez-Sánchez, Manuel; Manjón-Sanz, Alicia

SC-P-082-Wed-019 Thermal behaviour of the hybrid organic-inorganic ECS-3 material: an in situ powder diffraction study

Zanardi, Stefano; Millini, Roberto; Montanari, Erica

SC-P-083-Wed-020 diverse mobility of D₂O molecules in faujasite cages: a deuteron nmr investigation

Lalowicz, Zdzisław; Stoch, Grzegorz; Birczynski, Artur; Gora-Marek, Kinga; Datka, Jerzy

SC-P-084-Wed-021 New modification strategy of MFI zeolite membrane in supercritical media

Drobek, Martin; Motuzas, Julius; Durand, Véronique; Hertz, Audrey; Louradour, Eric; del Bianco, Nadine; Julbe, Anne

SC-P-085-Wed-022 The stability of copper species on Cu,Au/SBA-3 mesoporous materials

Florek-Milewska, Justyna; Ziolk, Maria

SC-P-086-Wed-023 Investigation of Adsorption Properties of Natural Zeolite from Yavu Region, Sivas-Turkey

Orhun, Onder; Caliskan, Sevket

SC-P-087-Wed-024 Thermal Investigation of Natural Zeolite from Yavu Region, Sivas-Turkey

Caliskan, Sevket; Orhun, Onder

SC-P-088-Wed-025 Framework and grafted incorporation of cubane-type MO₃S₄ cluster into mesoporous silica materials

Carrillo Gómez, Adela Isabel; Sorribes, Iván; Serrano, Elena; Llusar, Rosa; García-Martínez, Javier

SC-P-089-Wed-026 Reduction of copper, supported on ZSM-5, studied by DRX, UV-Vis-DR, EPR, SEM-EDS and Raman spectroscopy

Fenando, Chávez-Rivas; Rafael, Zamorano-Ulloa; Vitalii, Petranovskii; Inocente, Rodríguez-Iznaga

SC-P-090-Wed-027 Enzyme-containing Liposomes for stable biocatalysts preparation

Macario, Anastasia; Diaz, U.; Corma, A.; Giordano, G.

SC-P-091-Wed-028 Low temperature synthesis of nanosized LTA- and FAU-type zeolite crystals

Dimitrov, Ljubomir; Nihtjanova, D.; Kalvachev, Y.; Valtchev, V.

SC-P-092-Wed-029 Effect of preparation method on metal-support interactions in Ni/ZSM-5+Al₂O₃ catalysts

Masalska, Aleksandra; Grzechowiak R., Jolanta; Jaroszewska, Karolina; Tylus, Włodzimierz

SC-P-093-Wed-030 Effect of different mesoporous networks on the catalytic activity of V-SBA-15 and V-MCF obtained by direct synthesis
Piumetti, Marco; Bonelli, Barbara; Massiani, Pascale; Dzwigaj, Stanislaw; Rossetti, Ilenia; Millot, Yannick; Armandi, Marco; Garrone, Edoardo

SC-P-094-Wed-031 Direct exfoliation of layered zeolite Nu-6
Coronas, Joaquín; Gorgojo, Patricia; Galve, Alejandro; Téllez, Carlos

SC-P-095-Wed-032 Automated electron Diffraction Tomography (ADT) – a new technique for routine structure solution of nano-crystalline zeolites and porous materials
Mugnaioli, Enrico; Kolb, Ute

SC-P-096-Wed-033 n-Butene oligomerization over micro/mesoporous materials based on ferrierite
Khitev, Yuri; Kolyagin, Yuri; Ponomoreva, Olga; Ivanova, Irina; Fajula, Francois

SC-P-097-Wed-034 NMR studies on various cation forms of the natural zeolite natrolite with a complete degree of Si-Al order in hydrated and dehydrated states
Fernández, Christian; Vicente, Aurélie; Park, Min Bum; Hong, Suk Bong

SC-P-098-Wed-035 Particular characteristics of Ag-exchanged LTL zeolite in K and H form
Bartolomeu, Rui; Bértolo, Raquel; Casale, Sandra; Fernandes, Auguste; Henriques, Carlos; Da Costa, Patrick; Ribeiro, Filipa

SC-P-099-Wed-036 Development of porous carbon derived from polybenzoxazine and its applications as an electrode for supercapacitors
Chaisuwan, Thanyalak; Mahingsupan, Nuntiya; Wongkasemjit, Sujitra

SC-P-100-Wed-37 Study of disordered zeolite structures by TEM
Willhammar, Tom; Taborda, Farlán; Oleynikov, Peter; Zou, Xiaodong

SC-P-101-Wed-038 Selectivity of Pt catalysts containing AISBA-15 in 1-methylnaphthalene hydrogenation
Jaroszewska, Karolina; Grzechowiak, Jolanta; Masalska, Aleksandra; Grams, Jacek

SC-P-102-Wed-039 Analysis of Si- and Al- related defects sites in micro- and micro-mesoporous high-silica zeolites. Effect on selectivity and durability in MTH
Sazama, Petr; Wichterlova, Blanka; Dedecek, Jiri; Tvaruzkova, Zdenka; Palumbo, Luisa

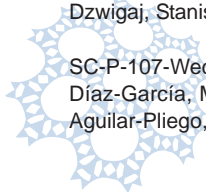
SC-P-103-Wed-040 The kinetics of TPA+ decomposition in thermogravimetric arrangement
Prokopova, Olga; Hrabanek, Pavel; Zikanova, Arlette; Bernauer, Bohumil; Kocirik, Milan

SC-P-104-Wed-041 Inert Gas Confinement in Sub-nano Alveoli Molecularly Imprinted into the surface of mesostructured porous silica
Younes, Bouzid; Mohamad, El Eter; Kun, Zhang; Belén, Albela; Ming-Yuan, He; Marie-Anne, Springel-Huet; Antoine, Gédéon; Laurent, Bonneviot

SC-P-105-Wed-042 Meso-macroporous material for Acid Catalysis in Biorefinery
Ma, Hao; Bairo, Francesco; Fiorilli, Sonia; Mortera, Renato; Vitale-Brovarene, Chiara; Onida, Barbara

SC-P-106-Wed-043 Different Kinds of Vanadium Species in Vanadium Containing Zeolites Evidenced by Experimental and Theoretical Investigations
Chalupka, Karolina; Lewandowska, Anna; Banares, Miguel; Millot, Yannick; Tielens, Frederik; Che, Michel; Dzwigaj, Stanislaw

SC-P-107-Wed-044 Characterization of Al and Ga substituted MCM-41
Díaz-García, Manuel; Pérez, Joaquín; Sastre, Enrique; Márquez-Álvarez, Carlos; Herrera-Pérez, Gabriel; Aguilar-Pliego, Julia; Gutierrez, Mirella



SC-P-108-Wed-045 Synthesis of zeolites from coal fly ash using mine waters (circum-neutral and acid mine drainage) as a substitute for pure water

Musyoka, Nicholas; Petrik, Leslie; Akinyeye, Richard; Madzivire, Godfrey; Hums, Eric

SC-P-109-Wed-046 The induction period in MFI synthesis studied by ESI-MS spectrometry

Schüth, Ferdi; Lim, Ivy Hwee; Schaack, Bernd Bastian; Schrader, Wolfgang

SC-P-110-Wed-047 Structure and morphology of red pigments based on sepiolite

Atanes, Evangelina; Vela, María Mercedes; Carrillo, Isabel; Cambra, Alberto; Fernández-Martínez, Francisco

SC-P-111-Wed-048 A sweeter route to titanium zeolite catalysts

Smith, Andy; Sankar, Gopinathan

SC-P-112-Wed-049 Platelets of zeolites with isometric structure formed by oriented aggregation of nanoparticles

Benabdallah, Rachida; Arletti, Rossella; Hamidi, Fatiha; Bengueddach, Abdelkader; Di Renzo, Francesco

SC-P-113-Wed-050 A New Trend Predicting the Organic Template Effects in the Hydrothermal Synthesis of A-type Zeolite

Enferadi Kerenkan, Amir; Babaluo, Ali Akbar; Bayati, Behruz

SC-P-114-Wed-051 New Insights on the Immobilization of TiO₂ on Porous Silicate Supports - an Efficient Photocatalytic system for decomposition of VOC

Novak Tušar, Nataša; Tasbihi, Minoo; Kaucic, Venceslav; Lavrencic Štangar, Urška

SC-P-115-Wed-052 Lamellar silicates are still valid precursor to mesoporous materials with controlled pores sizes and distribution

M. Moura, Hipassia; A. Bonk, Fabio; O. Pastore, Heloise

SC-P-116-Wed-053 Surface and pore structure assessment of hierarchical zeolites by advanced water and argon sorption studies

Thommes, Matthias; Mitchell, Sharon; Pérez-Ramírez, Javier

SC-P-117-Wed-054 The Structure and Properties of Micro/mesoporous Fe-silicalite-1/SBA-15 Composite Material

Lázár, Károly; Kollár, Márton; Károly, Zoltán; R Mihályi, Magdolna; Valyon, József

SC-P-118-Wed-055 Effect of pH on the mesopore structure and Al incorporation on a disordered mesoporous material

González, Gema; Sazo, Virginia; Gomes, María Elena

SC-P-119Wed-056 Insights on the pore topology of ITQ-28 zeolite by means of adsorption measurements and catalytic testing

Valencia, Susana; Corma, Avelino; Martínez-Triguero, Joaquín; Palomino, Miguel; Rey, Fernando; Sabater, M. José

SC-P-120-Wed-057 Ultrasound irradiation as suitable tool for the preparation of high active acid catalysts of HPA/Al-MCM-48 type

Hornáček, Michal; Hudec, Pavol; Kumar, Narendra; Smiešková, Agáta; Murzin, Dmitry Yu.; Salmi, Tapio

SC-P-121-Wed-058 Effect of washing on properties of phosphorous modified HZSM-5 zeolite

Derewinski, Miroslaw; Sarv, Priit

SC-P-122-Wed-059 RTH-type aluminosilicate zeolites synthesized using phosphorous containing structure directing agents

Vidal-Moya, J.A; Simancas, R.; Hernández-Rodríguez, M.; Navarro, M. T.; Cantín, A.; Darí, D.; Velamazán, N.; Jordá, J. L.; Blasco, T.; Rey, F.

SC-P-123-Wed-060 New synthesis of Pure silica and Ge-containing SSZ-73 zeolites
Hernández-Rodríguez, M.; Vidal, J. A.; Jordá, J. L.; Sastre, G.; Blasco, T.; Rey, F.

SC-P-124-Wed-061 A New Phosphazene based Route for Synthesis of UTD-1
Simancas, R.; Navarro, M. T.; Cantín, A.; Dari, D.; Velamazán, N.; Vidal-Moya, J. A.; Jordá, J. L.; Blasco, T.; Rey, F.

SC-P-126-Wed-063 Elaboration of Metallic Oxides Nanoparticles Prepared by the Hydrolytic Route with Maize Starch Stabilization
Kochkar, Hafeedh; Berhault, Gilles; Ghorbel, Abdelhamid

SC-P-127-Wed-064 Synthesis and characterization of vanadium incorporated Al-PILCs
Balci, Suna; Tecimer, Aylin

NM-P-029-Wed-065 Alkaline metal exchange optimization of SOD-ZMOF materials for potentially improved hydrogen adsorption
Calleja, Guillermo; Martos, Carmen; Botas, J. Ángel; Orcajo, M. Gisela; Villajos, José A.

NM-P-030-Wed-066 Desilicated MOR zeolite as bifunctional catalyst in n-hexane hidroisomerization
Carvalho, Ana Paula; Monteiro, Rita; Paixão, Viviana; Rocha, João; Martins, Angela

NM-P-031-Wed-067 Adsorption of α -tocopherol on clinoptilolite tuff from ethanol, ethyl acetate, n-hexane
Vasilyeva, Svetlana; Borodina, E.V.; Kotova, D.I.; Selemenev, V.F.

NM-P-032-Wed-068 Chiral ordered mesoporous silica obtained using amino acids
Coronas, Joaquin; Sebastian, Victor; Casado, Clara; Mayoral, Alvaro; Romero, Pilar; Larrea, Angel; Vispe, Eugenio; López-Ram-De-Viu, Pilar; Uriel, Santiago

NM-P-033-Wed-069 Recycling of silicate waste from nanocasting into microporous zeolites
Yu, Jong-Sung; Kim, Jung Ho; Kim, Yun Kyung; Song, Min Young; Park, Jin Sol

NM-P-034-Wed-070 Hybrid Biocatalysts: PMO as stabilizer for lipase in methanol
González, Beatriz; Blanco, Rosa M; Diaz, Isabel

NM-P-035-Wed-071 Synthesis and Characterisations of Novel Alloy Supported Catalysts
Al-Rubaye, Rana; Garforth, Arthur

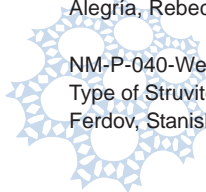
NM-P-036-Wed-072 Synthesis and catalytic performance of CHA-type SAPO materials
Sastre, Enrique; Álvaro-Muñoz, Teresa; Márquez-Álvarez, Carlos; Díaz, Isabel; Valtech, Valentin; El Fallah, Jaafar

NM-P-037-Wed-073 Titanosilicate delaminated material UZAR-S2 obtained from AM-4
Casado, Clara; Ambroj, Diego; Mayoral, Álvaro; Vispe, Eugenio; Téllez, Carlos; Coronas, Joaquín

NM-P-038-Wed-074 Quantitative and qualitative studies of MOF's properties by IR spectroscopy
Gil, Barbara; Marszalek, Bartosz; Ragon, Florence; Devic, Thomas; Serre, Christian

NM-P-039-Wed-075 Alkylation of Benzene with propylene with zeolite membrane
Torres Rodríguez, Miguel; Gutiérrez Arsaluz, Mirella; Aguilar Pliego, Julia; Múgica Álvarez, Violeta; Rayón Alegría, Rebeca.

NM-P-040-Wed-076 Selective Detection of Cs⁺ in Water Solutions via One-Step Formation of a New Type of Struvite-Like Phosphate
Ferdov, Stanislav



NM-P-041-Wed-077 Modified sulfonic acid-functionalised SBA-15 as robust catalyst for the processing of FFA/water-containing feedstocks for biodiesel production
Bautista, L. Fernando; Melero, Juan A.; Morales, Gabriel; Iglesias, José; Sánchez-Vázquez, Rebeca

NM-P-042-Wed-078 Liquid phase allylic oxidation over Cu-containing MOF's
Luz, Ignacio; Llabrés I Xamena, Francesc X.; Corma, Avelino; Boronat, Mercedes; León, Adela

NM-P-043-Wed-079 Organic-bridged low silicon content Faujasite X zeolites ZOF-LSX
Vause, Kevin; Yang, Xiao-Yu; Su, Bao-Lian

NM-P-044-Wed-080 Hierarchically Micro-Meso-Macro Porous Aluminosilicates Constructed from Zeolites Nanocrystals with Strong Acidity and Highly Catalytic activity
Su, Bao-Lian; Yang, Xiao-Yu; Li, Yu; Lemaire, Arnaud; Wei, Ying-Yu; Liu, Zhong-Min; Van Tendeloo, Gustaaf

NM-P-045-Wed-081 Hybrid organic/inorganic nanotubes of imogolite type
Zanzottera, Cristina; Bonelli, Barbara; Garrone, Edoardo; Fernández, Christian; Vicente, Aurelie

NM-P-046-Wed-082 Mesoporous Materials Containing Cu(II) and Ni(II) Complexes in Their Framework
Linares, Noemi; Carrillo, Adela I.; Serrano, Elena; García-Martínez, Javier.

NM-P-047-Wed-083 Structural transition of MIL-53 under pressure
Boulhout, Mohammed

NM-P-048-Wed-084 Dynamic behaviour of a new open framework calcium terephthalate
Zabukovec Logar, Nataša; Mazaj, Matjaž; Mali, Gregor; Rangus, Mojca; Kaucic, Venceslav

NM-P-049-Wed-085 Incorporation of Titanium (IV) on a Partially Hydrophobized MCM-41 with a Dipodal Silane and Application to Cyclohexane Epoxidation
Fang, Lin; Albela, Belén; Wu, Peng; He, Ming Yuan; Bonnevot, Laurent

NM-P-050-Wed-086 Carbon Nanotube Membranes by Templated Growth in Porous Media
Karanikolos, Georgios; Vermisoglou, Eleni; Pilatos, Georgios; Romanos, Georgios; Kanellopoulos, Nick

NM-P-051-Wed-087 ITQ-39: A new molecular sieve with a system of pores between those of ZSM-5 and Beta zeolite
Moliner, Manuel; González, Jorge; Portilla, M. Teresa; Rey, Fernando; Llopis, Francisco J.; Corma, Avelino

NM-P-052-Wed-088 Develop of new Ruthenium(II) Materials and Their Application in Selective Hydrogenation
Warad, Ismail; Al-Othman, Zeid; Al-Resayes, Saud I

NM-P-053-Wed-089 Copper-silver-zinc trimetallic system on mordenite: effect of order of ion-exchange on Cu²⁺ and Ag⁺ thermal reduction
Petranovskii, Vitalii; Rodríguez-Iznaga, Inocente; Lugo-Medina, Eder; Chávez-Rivas, Fernando; Castillón-Barrasa, Felipe

NM-P-056-Wed-090 Hydrogen Storage on modified materials type Ni/Carbon
Salmones Blásquez, José

NM-P-055-Wed-091 Zeolite structures synthesized from waste fly ash
María, Visa; Anca, Duta

Th-P-018-Wed-092 Population balance of seed-induced, SDA-free crystallization of sub-micrometer zeolite ZSM-5
Subotic', Boris; Ren, Nan; Bronic, Josip

Th-P-019-Wed-093 A Simulation Study of Water and Hydrogen Sulfide in Cu-BTC
Gutiérrez-Sevillano, Juan José; García-Montalbán, Luz; Caballero-Rivero, Estefanía; Hamad, Said; Martín-Calvo, Ana; Calero, Sofía

Th-P-020-Wed-094 Flexibility Effect in Zeolites
Bueno-Pérez, Rocío; Calero, Sofía; Dubbeldam, David; Merklung, Patrick Jacques

Th-P-021-Wed-095 The role and peculiar properties of a-sites in N₂O decomposition over FeMFI
Pirutko, Larisa; Chernyavsky, Valery; Starokon, Evgeny; Kharitonov, Aleksandr; Panov, Gennady

Th-P-022-Wed-096 Flexibility window in zeolites: pressure behavior and phase transitions
Sartbaeva, Asel; Wells, Stephen Anthony; Gatta, Diego

Th-P-023-Wed-097 Molecular Simulation of Adsorption of n-hexane and benzene in Na-MFI zeolites
García-Pérez, Elena; Calero, Sofía

Th-P-024-Wed-098 Molecular modeling of enantioselective catalysis in chiral MOF's
Bogaerts, Thomas; Vandichel, Matthias; Waroquier, Michel; Van Der Voort, Pascal; Van Speybroeck, Veronique

Th-P-025-Wed-099 Ab initio study on the deactivation of zeolite and zeotype catalysts during the MTO process
De Wispelaere, Kristof; Van Der Mynsbrugge, Jeroen; De Sterck, Bart; Hemelsoet, Karen; Waroquier, Michel; Van Speybroeck, Veronique.

Th-P-026-Wed-100 Red Shift in CO IR-Spectra Evidencing Di- and Tri-carbonyl Capture on Microporous NaY Zeolite
Hazar, Guesmi

Th-P-027-Wed-101 Cu(II) sorption on natural clinoptilolite: experiments and kinetics modeling
Jovanovic, Mina; Rajic, Nevenka; Obradovic, Bojana.

Th-P-028-Wed-102 A theoretical and experimental spectroscopy study on methanol and ethanol conversion over H-SAPO-34
Hemelsoet, Karen; Ghysels, An; Mores, Davide; De Wispelaere, Kristof; Van Speybroeck, Veronique; Weckhuysen, Bert; Waroquier, Michel

Th-P-029-Wed-103 Computational study of zeolite dealumination and formation of silanol nests
Svelle, Stian; Malola, Sami; Bleken, Francesca; Swang, Ole

Th-P-030-Wed-104 Dynamic Model of Breathing Transitions in MOF's
Triguero, Carlos; Coudert, François-Xavier; Boutin, Anne; Fuchs, Alain; Neimark, Alexander

Th-P-031-Wed-105 Molecular Simulation Characterization and Adsorption Studies of a Challenging New MOF
de Toni, Marta; Pullumbi, Pluton; Coudert, François-Xavier; Fuchs, Alain

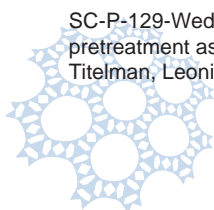
Th-P-032-Wed-106 Understanding Type V Isotherms for H₂O and CO₂ Adsorption in MOF's
Coudert, François-Xavier; Paranthaman, Selvarengan; De Toni, Marta; Fuchs, Alain

Th-P-033-Wed-107 Vibrational spectra of polysiloxane and bridged polysilsesquioxane xerogels – a theoretical investigation
Borowski, Piotr; Barczak, Mariusz; Pilorz, Karol

Th-P-034-Wed-108 Prediction of adsorption of odor compounds in zeolites by molecular modeling studies
Constantin, Cristian; Castillo Sánchez, Juan Manuel; Vlught, Thijs J.H.; Kramer, Herman J.M.

Th-P-035-Wed-109 Structural and dynamics properties of hydrogen confined phases in Silicalite-I zeolite
Coulomb, Jean - Paul; Floquet, Nicole; Llewellyn, Philippe; André, Gilles

SC-P-129-Wed-110 High crystallinity faujasite from fly ash – control of silica solubility by acid-base pretreatment as efficient tool determining zeolitization
Titelman, Leonid; Shein, Olga; Landau, Miron; Metzger, Ariel; Herskowitz, Moti



PE-P-035-Wed-111 Methanol conversion into olefins over silicoaluminophosphates with intergrown CHA/AEI structures

Knyazeva, Elena; Aranovich, Ilia; Konnov, Stanislav; Shutkina, Olga; Ponomareva, Olga; Ivanova, Irina

PE-P-036-Wed-112 Conversion of methanol over TNU-9, IM-5, ZSM-11 and ZSM-5. Intersection volumes of 10-ring influence selectivity towards coke and the importance of aromatics in the alkene-forming reaction mechanism

Bleken, Francesca; Skistad, Wegard; Barbera, Katia; Kustova, Marina; Bordiga, Silvia; Beato, Pablo; Lillerud, Karl Petter; Svelle, Stian; Olsbye, Unni

PE-P-037-Wed-113 The influence of Co content on the catalytic activity of Co_xSiBEA zeolites in CO oxidation

Chalupka, Karolina; Jozwiak, Wojciech; Dzwigaj, Stanislaw

PE-P-038-Wed-114 Structure analysis of vanadium species in micro- and meso-porous catalysts

Botková, Šárka; Capek, Libor; Bulánek, Roman; Cicmanec, Pavel; Mayerová, Jana; Zukal, Arnošt; Pouzar, Miloslav

PE-P-039-Wed-115 Biomimetic catalitical oxidation methane to methanol on zeolite NaM

Nagiev, Tofik; Nagieva, Inara

PE-P-040-Wed-116 Pyrrole HDN by Tungsten Disulfide Catalysts

Luque, Priscy; Olivas, Amelia; Lugo, Eder

PE-P-041-Wed-117 Hydroreforming of the LDPE thermal cracking product over Ni supported hierarchical and commercial HZSM-5

Aguado, José; Escola, José; Serrano, David; García, Alicia; Briones, Laura; Peral, Angel; Calvo, Rogelio; Fernández, Eduardo

PE-P-042-Wed-118 Framework Mn in Mesostructured Silicate as Catalyst for the Decomposition of Organic Dye

Maucec, Darja; Novak Tušar, Nataša; Cotman, Magda; Pintar, Albin; Kaucic, Venceslav

PE-P-043-Wed-119 Methyl Mercaptan and Carbonyl Sulfide Traces Removal through Adsorption and Catalysis on Zeolites and Layered Double Hydroxides

Trens, Philippe; Ryzhikov, Andrey; Hulea, Vasile; Tichit, Didier; Leroi, Catherine; Anglerot, Didier; Coq, Bernard

PE-P-044-Wed-120 Catalytic performance of a CVD modified HZSM-5 for p-diethylbenzene production

Sotelo, José Luis; Rodríguez, Araceli; Agueda, V. Ismael; Gómez, Pilar

PE-P-045-Wed-121 m-Xylene and mesitylene transformations over EUO zeolite: Effect of the sodium exchange and location of the active acid sites

Martins, João; Laforge, Sébastien; Magnoux, Patrick; Guillon, Emmanuelle; Lemos, Francisco; Ramôa Ribeiro, Fernando

PE-P-046-Wed-122 Use of microwaves for the synthesis of sulfonic acid-functionalized mesoporous silica. Application as catalyst in glycerol etherification

González, María Dolores; Cesteros, Yolanda; Salagre, Pilar

PE-P-047-Wed-123 Pd-Co/HBEA catalysts with enhanced activity for the Selective Catalytic Reduction of NO_x with methane

Pereira, Joana; Ferreira, Ana Paula; Capela, Sandra; Fernandes, Auguste; Da Costa, Patrick; Ribeiro, Filipa; Henriques, Carlos

PE-P-048-Wed-124 Characterization of Pd and In species in PdInH-mordenite for the SCR of NO_x with methane

Decolatti, Hernán; Lónyi, Ferenc; Solt, Hanna; Miró, Eduardo; Gutierrez, Laura

PE-P-049-Wed-125 An investigation of activities and selectivities of HZSM-5 and H-Ferrierite zeolites modified by different methods in N-butene isomerization

Kiliç, Emre; Yilmaz, Selahattin

PE-P-050-Wed-126 Development of template assistant one-pot synthesis Ni-ZrO₂ composites for catalysis application

Golubina, Elena; Turakulova, Anara; Otorozhenko, Tatyana; Lokteva, Ekaterina; Lobanov, Maxim; Lunin, Valery

PE-P-051-Wed-127 Ca²⁺-exchanged ferrierite: an excellent catalyst for selective formation of light alkenes in catalytic cracking of n-octane

Wang, Lixia; Ozawa, Kenichi; Komatsu, Takayuki; Ikeda, Takuji

PE-P-052-Wed-128 Mesoporous, microporous and delaminated supports for Pd-Sn catalysts in the water nitrates hydrogenation

Franch, Cristina; Palomares, Antonio Eduardo; Corma, Avelino

PE-P-053-Wed-129 Towards an Optimal Ethylene Oligomerization Catalyst based on Single-Event MicroKinetic Modelling

Toch, Kenneth; Thybaut, Joris W.; Marin, Guy B.

PE-P-054-Wed-130 Introduction of bioethanol in gasoline via alkylation reaction

Roldán, Rafael; Ribas, Íñigo; Gómez, Juan Pedro

PE-P-055-Wed-131 Insights into the role of ZSM-5 acidity in the syngas-to-DME reaction

Martínez, Agustín; García-Trenco, Andrés

PE-P-056-Wed-132 Gasoline or diesel fuel production by the selective oligomerization of isobutene catalyzed by mesoporous MSU-S aluminosilicates

Valente, Jaime S.; Pinnavaia, Thomas J.; Park, Dongho; Kim, Seong-Su; Tzompantzi, Francisco; Prince, Julia

PE-P-057-Wed-133 Hydrodeoxygenation of methyl esters over Ni-Beta zeolite with hierarchical porosity

Ochoa, Cristina; Yang, Yongxing; Coronado, Juan M.; de la Peña, Víctor A.; Serrano, David P.

PE-P-058-Wed-134 Oxygen Free Conversion Of Natural Gas to useful Hydrocarbons and Hydrogen using Monometallic Mo and Bimetallic Mo-Fe, Mo-Co or Mo-Ni/HZSM-5 Catalysts Prepared by Mechanical Mixing

Awadallah, Ahmed; El-Masry, Mohamed; Aboul-Gheit, Ahmed

PE-P-059-Wed-135 study of PdIn-Zeolite catalysts by XPS and TEM-EDX

Decolatti, Hernán; Lónyi, Ferenc; Mihályi, R. Magdolna; Valyon, József; Boix, Alicia; Gutierrez, Laura

PE-P-060-Wed-136 Comparison of dealumination and desilication of mordenite in alkylation of benzene with 1-alkene

Hudec, Pavol; Hornáček, Michal; Smiešková, Agata; Jorík, Vladimír

PE-P-061-Wed-137 Brønsted acidic zeolites and molecular sieves for the synthesis of precursors for high quality diesel

Renz, Michael; de la Torre, Olalla; Corma, Avelino

PE-P-062-Wed-138 Catalytic degradation of pure and waste polymers in the presence of zeolite and mesoporous catalysts

Halász, János

PE-P-063-Wed-139 Bioethanol Steam Reforming on Modified Mordenite zeolite
Chica, Antonio; Da Costa-Serra, Javier Francisco; Navarro, María Teresa; Rey, Fernando

PE-P-064-Wed-140 p-hydroxybenzoic acid degradation by CWAO over ruthenium supported on
CeO₂-Al₂O₃ mixed oxides

Triki, Mohamed; Ksibi, Zouhaier; Ghorbel, Abdelhamid; Medina, Francisco

PE-P-065-Wed-141 A-Type zeolite membrane synthesis for production of methanol with CO₂
hydrogenation

Tugba, Çelik; Çigdem Güldür

PE-P-066-Wed-142 Steam dealumination of MFI zeolite: Compensation effect

Corma, A.; Mengual, J.; Miguel, P.J.

FC-P-028-Wed-143 Asymmetric reduction of imines using immobilized chiral catalyst

Luštická, Ivana; O. Kysilka; Cervený, Libor; Kocovský, Pavel

FC-P-029-Wed-144 Novel basic catalysts based on porous coordination polymers with MIL-101
structure

Hartmann, Martin; Fischer, Marcus

FC-P-030-Wed-145 Chiral periodic mesoporous organosilicas synthesized by a facile one-pot
approach

Morales, Victoria; Garcia, Rafael A.; Van Grieken, Rafael; Villajos, José A.

FC-P-031-Wed-146 Catalytic activity of Co₃O₄ nanoparticles supported on aluminosilicate materials

Luque, Rafael; Pineda, Antonio; Balu, Alina M.; Campelo, Juan M.; Luna, Diego; Marinas, José M.;
Romero, Antonio

FC-P-032-Wed-147 Activity of Zr-SBA-15 materials in the Friedel-Crafts acylation of anisole with
benzoyl chloride

Campelo, Juan Manuel; Gracia, María Dolores; Losada, Elia; Luna, Diego; Luque, Rafael; Marinas, José
María; Romero, Antonio Ángel

FC-P-033-Wed-148 Friedel-Crafts alkylation of anisole with benzyl alcohol. Microporous vs
mesoporous materials

Romero, Antonio Angel; Losada, Elia; Gracia, María Dolores; Campelo, Juan Manuel; Luna, Diego; Luque,
Rafael; Marinas, José María.

FC-P-034-Wed-149 Selectivity in Sorption and Hydrogenation of FAMES and Triglycerides on MFI
Zeolites

Philippaerts, An; Paulussen, Sabine; Turner, Stuart; Van Tendeloo, Gustaaf; Jacobs, Pierre; Sels, Bert

FC-P-035-Wed-150 Heterogeneously Catalyzed Epoxidation of Unsaturated Fatty Acid Methyl Esters
with Hydrogen Peroxide

Wilde, Nicole; Worch, Christian; Suprun, Wladimir; Gläser, Roger.

FC-P-036-Wed-151 Mesoporous Titania as Catalysts Support for Fine-Chemical Synthesis

Linares Pérez, Noemi; Hartmann, Sarah; Galarneau, Ann; Barbaro, Pierluigi

FC-P-037-Wed-152 Strained Surface Siloxanes as Source of Synthetically Important Radicals

Maschmeyer, Thomas; Ward, Antony; Lesic, Rebecca; Fabos, Viktoria; Masters, Anthony

FC-P-038-Wed-153 Synthesis of [Al]-SSZ-60 and its catalytic properties in alkylation of biphenyl

Sugi, Yoshihiro; Naiki, Hiroaki; Komura, Kenichi

FC-P-039-Wed-154 Pd nanoparticle-doped mesoporous silicates for the selective aerobic oxidation of allylic alcohols
Parlett, Christopher M A; Lee, Adam F; Wilson, Karen; Wainwright, Steve; Bruce, Duncan W.

FC-P-040-Wed-155 MnS-1 as a selective catalyst for the solvent-free oxidation of alkyl aromatics to aromatic ketones with molecular oxygen
Cecowski, Saša; Novak Tušar, Nataša; Kaucic, Venceslav; Gläser, Roger; Laha, Subhash Chandra

FC-P-041-Wed-156 Al (III) and Ce (IV) Incorporation into Helical Mesoporous Silica
Carrillo Gómez, Adela Isabel; Serrano, Elena; Gracia, María Dolores; Luque, Rafael; García-Martínez, Javier

FC-P-042-Wed-157 Chemicals from biomass: acid zeolites as catalysts for the one-pot synthesis of long chain alkyl acetals of 5-hydroxymethyl furfural derivatives with potential surfactant applications
Arias, Karen; Climent, María José; Corma, Avelino; Iborra, Sara

FC-P-043-Wed-158 Mesoporous aluminosilicates as efficient and reusable catalysts for chemoselective formation of 1,5-benzothiazepines
Climent, María José; Corma, Avelino; Iborra, Sara; López, Ana; Martí, Laura.

FC-P-044-Wed-159 Mesoporous 1,3,5-benzene tribenzoate (BTB) based MOF's and their application in gas storage and catalysis
Nickerl, Georg; Gedrich, Kristina; Klein, Nicole; Heitbaum, Maja; Notzon, Andreas; Stoeck, Ulrich; Senkovska, Irena; Glorius, Frank; Kaskel, Stefan

FC-P-045-Wed-160 Gold Nanoparticles on Nanometric Ce and Ti Oxides catalyze the N-Monoalkylation of Amines with Alcohols through a One-pot Process
Sabater, María José; Corma, Avelino; Navas, Javier

FC-P-046-Wed-161 Catalytic pyrolysis of lignin for the production of high added value chemicals and fuels
Stöcker, M.; Kalogiannis, K.; Stefanidis, S.; Lappas, A. A.; Hannevold, L.; Spjelkavik, A.i.; Öhman, F.

FC-P-047-Wed-162 Catalytic sulphonated PVA membranes for the synthesis of isoborneol from camphene
Machado, Angela; Castanheiro, José; Vital, Joaquim; Ramos, Ana; Casimiro, María; Pinto, Joana

FC-P-048-Wed-163 Gold (III) stabilized over ionic liquid grafted in MCM-41 for highly efficient three-component coupling reactions
Bobadilla, Luis F.; Odriozola, José Antonio; Blasco, Teresa

FC-P-049-Wed-164 Surface selective silylation of MCM-41 with trimethylsilyltriflate: quantitative characterization and catalytic application
Hara, Kenji; Akahane, Saiko; Wiench, Jerzy; Pruski, Marek; Lin, Victor; Fukuoka, Atsushi

FC-P-050-Wed-165 Alkyl lactates and Lactic Acid Prepared From Sugars Using Silica-Carbon Composite Materials
de Clippel, Filip; Dusselier, Michiel; Peng, Li; Ooms, Roosje; Giebelers, Lars; Oswald, Steffen; Pescarmona, Paolo; Jacobs, Pierre A.; Sels, Bert F.

FC-P-051-Wed-166 [V,Al]-ITQ-18: The novel delaminated catalyst obtained from [V,Al]-Nu-6 zeolite
K. De Pietre, Mendelssolm; O. Pastore, Heloise

FC-P-052-Wed-167 Selective oxidation of tetralin over Cr-containing mesoporous catalysts
Bangó, Adrienn; Halász, János

FC-P-053-Wed-168 Hydrogenation of light unsaturated nitriles over Pt and Rh nanoparticles supported on mesoporous materials
Hannus, István; Bangó, Adrienn; Halász, János

FC-P-054-Wed-169 Post-functionalization of IRMOF-3 with Chiral “Pincer” Transition Metal Complexes. New Recyclable Enantioselective Catalysts on Hydrogenation of Alkenes
Ananz, A.; del Pozo-Ochoa, C.; Villaverde-Cantizano, G.; Iglesias, M.; Sánchez, F.

SM-P-022-Wed-170 Effects of air humidity on the removal of carbon tetrachloride from air using Cu-BTC metal-organic frameworks
Martín-Calvo, Ana; García-Pérez, Elena; García-Sánchez, Almudena; Bueno-Pérez, Rocío; Hamad, Said; Calero, Sofía

SM-P-023-Wed-171 TGA investigation of propene adsorption over Ag- and Cu- exchanged X zeolites
Benaliouche, Fouad; Boucheffa, Youcef; Ayrault, Philip; Mignard, Samuel; Magnoux, Patrick

SM-P-024-Wed-172 Improved amine-functionalized hexagonal mesoporous silica for CO₂ adsorption
Calleja, Guillermo; Raúl, Sanz; Arencibia, Amaya; Sanz, Eloy

SM-P-025-Wed-173 Isotherms construction from nanoscale FTIR understanding of gas adsorption on microporous: CO adsorbed on NaY zeolite as a case study
Cairon, Olivier

SM-P-026-Wed-174 Highly oriented neutral and cation-free AlPO₄ LTA: from seed crystal monolayer to molecular sieve membrane
Huang, Aisheng; Caro, Jürgen

SM-P-027-Wed-175 Characterization of Zeolite 5A by Ethylene and Ethane Adsorption
Mofarahi, Masoud; Salehi, Seyyed Milad

SM-P-028-Wed-176 Pure and Multicomponent Equilibrium Adsorption Isotherms of Carbon Dioxide, Nitrogen and Oxygen over Zeolite 13X
Mofarahi, Masoud; Sayah, Seyyed Masoud

SM-P-029-Wed-177 Packing density of adsorbates inside the micropores of zeolites. Studies by nitrogen postadsorption
Guil-López, Rut; Guil, José M.; Perdigon-Melon, José A.

SM-P-030-Wed-178 Study of the adsorption of sterols by mesoporous material MCM-41, modified by organosilanes
Borodina, Elena; Krizhanovskaya, Oksana; Karpov, Sergey; Selemenev, Vladimir; Roessner, Frank

SM-P-031-Wed-179 Potential of metal-modified MFI zeolite membranes and role of the support
Motuzas, Julius; Drobek, Martin; Louradour, Eric; Del Bianco, Nadine; Julbe, Anne

SM-P-032-Wed-180 Selective adsorption of phenolic compounds onto SBA-15 mesoporous molecular sieve
Luchian, Camelia Elena; Niculaua, Marius; Bilba, Nicolae; Vasile, Aurelia; Cotea, Valeriu V.

SM-P-033-Wed-181 Selective adsorption of a pollutant (Mesosulfuron) on modified mesoporous silicas
Mignard, Samuel; Gener, Isabelle; Trouve, Adeline

SM-P-034-Wed-182 CO₂-adsorption at room temperature over PtKL catalysts modified by rare earths cations
Álvarez-Rodríguez, Jesús; Guerrero-Ruiz, Antonio; Rodríguez-Ramos, Inmaculada; Arcoya, Adolfo

SM-P-035-Wed-183 Permeation and separation properties of TS-1 membrane for hydrocarbon mixtures
Cong, Dung Tien; Fila, Vlastimil; Hrabanek, Pavel; Bernauer, Bohumil

SM-P-036-Wed-184 A comparative study for arsenic behavior sorption in zeolites applying cyclic voltammetry
Luna- Quiroz, Marcos; Luna Sánchez, Rosa María; Aguilar-Pliego, Julia; Rodríguez-Trejo, Rosa

SM-P-037-Wed-185 Adsorption of the Ethane and Ethylene on Natural Mordenite and Mordenite exchanged with K⁺

Vargas Hernández, Diana; Hernández Huesca, Rosario; Pérez Cruz, María Ana

SM-P-038-Wed-186 Calcium-impregnated MCM-48: creation of basic sites

J. Quites, Fernando; O. Pastore, Heloise

SM-P-039-Wed-187 SAPO-34 mixed matrix membranes based on PIM-1 and polyimides polymers: study of the role of zeolite surface properties and morphology

Buonomenna, M.G.; Golemme, G.; Budd, P.M.; Mason, C.R.; Starannikova, L.; Starannikova, L.; Belov, N.; Yampolskii, Y.

SM-P-040-Wed-188 Efficient CO₂ and CH₄ adsorption and separation utilizing the open metal sites of the CPO-27 coordination polymers

Dietzel, Pascal D. C.; Schuricht, Falk; Andreassen, Kari Anne; Blom, Richard

SM-P-041-Wed-189 Influence of Germanium in the propane/propylene separation performance using ITQ-29 zeolite as adsorbent

Palomino, Miguel; Corma, Avelino; Jordá, José Luis; Rey, Fernando; Valencia, Susana

FC-P-055 - Wed- 190 Zeolites: An efficient catalyst for the synthesis of coumarin derivatives

Teimouri, Abbas; Najafi Chermahini, Alireza

TA-P-015-Wed-191 Zeolites and Related Mesoporous Materials for Multi-talented Environmental Solutions

Perego, Carlo; Bagatin, Roberto; Tagliabue, Marco; Vignola, Rodolfo

TA-P-016-Wed-192 Adsorption of 2-methylbenzoic acid onto MCM-41 materials: a kinetic study

Aiello, Daniela; Mirabelli, Ilaria; Testa, Flaviano; Aiello, Rosario

TA-P-017-Wed-193 Encoding silver exchanged zeolites by 3D photoactivation

de Cremer, Gert; Coutino-González, Eduardo; Roefsaers, Maarten; De Vos, Dirk; Hofkens, Johan; Vosch, Tom; Sels, Bert

TA-P-018-Wed-194 Polyamide fibers with α -tocopheryl acetate encapsulated into zeolite Y

Rubio, Cesar; Liédana, Nuria; Pérez, Eduardo; Piera, Elena; Caballero, Miguel Angel; Coronas, Joaquín; Téllez, Carlos

TA-P-019-Wed-195 Inclusion of antioxidants in MCM-41: physico-chemical properties and activity

Iliade, Patrizia; Gastaldi, Lucia; Ugazio, Elena; Sapino, Simona; Carlotti, María Eugenia; Coluccia, Salvatore; Berlier, Gloria

TA-P-020-Wed-196 The progression of Metal-Organic Frameworks - From academic research to industrial production and applications

Gaab, Manuela; Trukhan, Natalia; Maurer, Stefan; Müller, Ulrich.

TA-P-021-Wed-197 Inclusion of dye molecules within MgAPO-5

García, Raquel; Martínez-Martínez, Virginia; Corcóstegui, Cecilia; López-Arbeloa, Iñigo; Pérez-Pariente, Joaquín

TA-P-022-Wed-198 Cisplatin-loaded Folic Acid Functionalized Mesoporous Silica Selectively Enters and Kills Folate Receptor Expressing Cancer Cells

Pasqua, Luigi; Morelli, Catia; Maris, Pamela; Sisci, Diego; Perrotta, Enrico; Perrotta, Ida; Versace, Carlo; Testa, Flaviano; B. Nagy, Janos

TA-P-023-Wed-199 Drug delivery based on mesoporous silica: A functioning device tested in vivo

Behrens, Peter; Ehlert, Nina; Lensing, Rebecca; Bleich, Andre; Mueller, Peter P.; Lenarz, Thomas; Stieve, Martin



TA-P-024-Wed-200 In vitro evaluation of surface-modified silica nanoparticles for the delivery of camptothecin

Muniesa, Carlos; Miranda, Sonia; Fernández, Yolanda; Quesada, Manuel; Ruiz, Jorge; Schwartz Jr., Simo; Corma, Avelino; Abasolo, Ibane; Botella, Pablo

TA-P-025-Wed-201 Functional bio-gated silica mesoporous supports for controlled delivery applications

Marcos, María Dolores; Bernardos, Andrea; Climent, Estela; Mondragón, Laura; Aznar, Elena; Sancenón, Felix; Amorós, Pedro; Martínez-Máñez, Ramón

TA-P-026-Wed-202 Effect of pH on the mesopore structure and Al incorporation of disorder mesoporous materials

González, Gema; Sazo, V.; Gomes, M.E.

SC-P-128-Wed-204 H₂S-Temperature Programmed Reduction and XRD studies for characterization of CoMo/γ-alumina+xAgY sulphided catalysts: influence of silver zeolite loading
Boukoberine, Yamina; Hamada, Boudjemaa

RRR-16-Wed-205 Identification of preferred Al sites in industrial ZSM-5 catalyst

Cepak, Alexander; Schmidt, Wolfgang; Weidenthaler, Claudia

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Ken Inge, A.; Willhammar, Tom; Baerlocher, Christian; B. Mccusker, Lynne; Zou, Xiaodong

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Bouchiba, N.

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M. Stevens, Sam

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Xie, Dan; B. Mccusker, Lynne; Baerlocher, Christian

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St. Petkov, Petko; A. Aleksandrov, Hristiyan; Valtchev, Valentin; N. Vayssilov, Georgi

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Castellà-Ventura, M.; Akacem, Y.; Kassab, E.

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G. Bell, Robert; Shrestha Kanu, Sapna; Varyani, Lavni

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Demange, D.; Bekris, N.; Besserer, U.; Le, T.I.; Kramer, F.; Parracho, A.; Wagner, R.

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Albuquerque, M.C.G.; Quintella, S. A.; Saboya, R.M.A.; Cavalcante, C.I.

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Troussard, Ekaterina; Ma, Zhiqiang; Van Bokhoven, Jeroen A.

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Buljan, Iva; Kosanovic', Cleo; Maduna Valkaj, Karolina; Wittine, Ozren; Zrnzevic', Stanka

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Lalowicz, Z.T.; Stoch, G.; Birczynski, A.; Punkkinen, M.; Ylinen, E.; Góra-Marek, K.; Datka, J.

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Rakic, Vesna

RRR-30-Wed-219 Influence of Intermetallic diffusion barrier on Pd Membrane

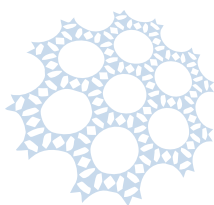
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López-Pérez, L.; Heeres, H.J.; Melián-Cabrera, I.

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Pérez-Romo, Patricia; Guzmán-Castillo, M. de Lourdes; Armendáriz-Herrera, Héctor; Fripiat, José Navarrete-Bolaños, Juan



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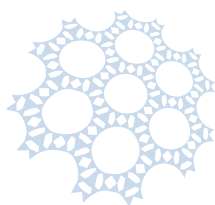


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