

## POSTER PROGRAMME

- P 1 **Dehydration of 2-methyl-1,3-propanediol to isobutyraldehyde in sub- and supercritical water**  
A. Soler, K. Krantchev, H. Vogel, TU Darmstadt/D
- P 2 **The application of molecular modelling in the optimisation of reactive cotton dyeing in supercritical carbon dioxide**  
W. Buijs, V. Fernandez Cid, G-J. Witkamp, TU Delft/NL
- P 3 **Oxidation of alcohols and ketones with peroxyacids in ionic liquids as efficient solvents**  
 S. Baj, A. Chrobok, TU Silesian, Gliwice/PL
- P 4 Cancelled
- P 5 **Deacidification of soybean oil using ionic liquids or Poly(ethyleneglycol)s**  
V. Najdanovic-Visak, M.S. Manic, New University of Lisbon, Caparica/P; Z.P. Visak, Centro de Química Estrutural, Lisbon/P; M. Nunes da Ponte, New University of Lisbon, Caparica/P
- P 6 **Thermodynamic characterisation of an IL synthesis combining online spectroscopy and calorimetry**  
S. Hardy, C. Minnich, L. Greiner, M.A. Liauw, RWTH Aachen/D
- P 7 **Pretreatment of lignocellulosic materials with ionic liquids: which potential?**  
 D. Morvan, C. Vallee, IFP-Lyon, Solaize/F; M. Ropars, IFP, Rueil-Malmaison/F; H. Olivier-Bourbigou, IFP-Lyon, Solaize/F
- P 8 **Enzyme-catalysed C-C bond formation using 2-methyl-THF: efficient and bio-based alternative to DMSO and MTBE**  
S. Shanmuganathan, D. Natalia, A. Wittenboer, W. Leitner, L. Greiner, P. Domínguez de María, RWTH Aachen/D
- P 9 **Effect of higher water content on different ionic liquids**  
M. Ramunno, N. Ebel, P. Wasserscheid, E. Schlücker, University of Erlangen-Nuremberg/D
- P 10 **Catalytic modification of cellulose in ionic liquids**  
A. Osichow, S. Mecking, University of Konstanz/D
- P 11 **Ionic liquids and the NOE: interactions in the liquid phase**  
R. Giernoth, Y. Lingscheid, University of Cologne/D
- P 12 **Special ionic liquids in the synthesis of organised magnetic surfaces**  
P. Dytrych, P. Kluson, Z. Hubicka, H. Pelantova, Academy of Sciences of the Czech Republic, Prague/CZ; M. Vesely, TU Brno/CZ; M. Slater, University of Bangor, Gwynedd/UK
- P 13 **Activity and stability of immobilised cellulase in anhydrous mixtures of ILs containing cellulose**  
P. Lozano, B. Bernal, University of Murcia/E; M. Vaultier, CNRS, Rennes/F

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- P 14 **Selective catalytic hydrogenation of terpenes by nanoparticle catalysts**  
D. Peters, M. Hölscher, W. Leitner, RWTH Aachen/D
- P 15 **Solvent concepts to recycle homogeneous catalysts of the cross-metathesis of methyl oleate with 4-octene**  
A. Behr, J. Pérez-Gomez, H. Witte, TU Dortmund/D
- P 16 **Inline ATR-IR spectroscopy to determine reaction kinetics in multiphase catalysis**  
M. Picard, L. Greiner, W. Leitner, RWTH Aachen/D
- P 17 **Low-viscous ionic liquids including electron-withdrawing groups**  
S. Kitaoka, K. Nobuoka, T. Arima, N. Yoshiwa, Y. Ishikawa, Oita University/J
- P 18 **Ionic liquids for chiral application of DNA**  
K. Nobuoka, S. Kitaoka, A. Nakamura, K. Sumi, Y. Ishikawa, Oita University/J
- P 19 **Light and heavy fluoruous cyclopentadienes – challenging way to a ubiquitous ligand**  
J. Cermak, L. Cervenkova Stastna, Academy of Sciences of the Czech Republic, Prague/CZ
- P 20 **Two phase system of benzaldehyde lyase catalysed reaction in supercritical carbondioxide**  
D. Natalia, C. Kohlmann, RWTH Aachen/D; M. Ansoerge-Schumacher, TU Berlin/D; L. Greiner, RWTH Aachen/D
- P 21 **In-situ monitoring of lignin in ionic liquids by means of a novel ATR-UV probe**  
J. Viell, RWTH Aachen/D; L. Küpper, Infrared fibre sensors/D; W. Marquardt, RWTH Aachen/D
- P 22 **Synthesis of nano-catalysts by chemical fluid deposition (CFD) and their application in the transformation of biomass-derived monomers**  
 K. Yan, F. Qin, R. Weiß, N. Theyssen, Max-Planck-Institute for Coal Research, Mülheim/D; W. Leitner, RWTH Aachen/D
- P 23 **Synthesis of polyvinyl pyridine ferrite nanocomposites in supercritical carbon dioxide**  
N. Bhullar, Maharaja Agrasen Institue of Technology, New Delhi/IND; B. Joshi, Serc Division Department of Science and Technology, New Delhi/IND
- P 24 **Application of supported ionic liquid phase (SILP) catalysis to Monsanto carbonylation reactions**  
C.W. Hanning, R. Fehrmann, A. Riisager, O. Nguyen Van Buu, TU Denmark, Lyngby/DK

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- P 25 **Palladium catalysts with ionic liquid layer in Suzuki and Hiyama reactions**  
T. Borkowski, A.M. Trzeciak, University of Wroclaw/PL
- P 26 **Cascade reactions for sustainable conversion of fatty acid methyl esters**  
S.L. Desset, T. Hermanns, J. Klankermayer, W. Leitner, RWTH Aachen/D
- P 27 **Phase equilibria of ionic liquids in petroleum processing**  
M.J. Earle, Queen's University of Belfast/UK; H. Rodríguez, University of Santiago de Compostela/E; K.R. Seddon, Queen's University of Belfast/UK; A. Arce, A. Soto, University of Santiago de Compostela/E
- P 28 **Comparison of CO<sub>2</sub> capture capacity of RTILs and SILs**  
E. Privalova, P. Mäki-Arvela, K. Eränen, D.Yu. Murzin, Åbo Akademi, Turku/FIN; J.-P. Mikkola, Umeå University/S
- P 29 **Ecofriendly oxidation of olefins catalysed by transition-metal porphyrins in ionic liquids media**  
G. Chatel, M. Draye, University of Savoie, Chambéry/F; B. Andrioletti, University of Lyon, Villeurbanne/F; N. Kardos, University of Savoie, Chambéry/F; C. Goux-Henry, University of Lyon, Villeurbanne/F
- P 30 **Mechanical pretreatment of biomass for efficient dissolution in ionic liquids**  
Q. Yan, M. Modigell, RWTH Aachen/D
- P 31 **New tropos-BIPHEP ligands for asymmetric catalysis in chiral ionic liquids**  
P. Oczipka, G. Franciò, J. Klankermayer, W. Leitner, RWTH Aachen/D
- P 32 **Aqueous green synthesis of starch-graft-poly(ethylacrylate)**  
V. Singh, S. Maurya, P.K. Tandon, University of Allahabad/IND
- P 33 **Catalysis by solid supported transition metal ions in the oxidation of hydrocarbons, aromatic aldehydes and phenols in liquid phase and under solvent-less conditions**  
P. Tandon, V. Singh, University of Allahabad/IND
- P 34 **Experimental measurements of electrical conductivity and viscosity of EMIM-CnS ionic liquids and their mixtures with ethanol at four temperatures**  
E. Rilo Siso, J. Vila, L. Segade, University of Coruña/E; L.M. Varela, University of Santiago de Compostela/E; O. Cabeza, University of Coruña/E
- P 35 **Sustainable production of EMIM ClO<sub>4</sub>**  
P. Keil, M. Schmeißer, M. Kick, R. van Eldik, A. König, University of Erlangen-Nuremberg/D

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- P 36 **Continuous-flow (bio)catalytic processes for the transformation of 1,3-propanediol**  
V. Sans Sangorrin, M. Sotenko, A. Lapkin, University of Warwick, Coventry/UK
- P 37 **Oxadiazoline and ketoimine Pd(II) complexes as highly efficient catalysts for Suzuki-Miyaura cross-couplings in scCO<sub>2</sub>**  
R.R. Fernandes, J. Lasri, TU Lisbon/P; M.F.C. Guedes da Silva, Lusophone University of Humanities and Technology, Lisbon/P; A.M.F. Palavra, J.A.L. Silva, A.J.L. Pombeiro, TU Lisbon/P
- P 38 **Physicochemical and solvent properties of morpholinium dicyanamide ionic liquids**  
C. Chiappe, C.S. Pomelli, S. Rajamani, University of Pisa/I
- P 39 **Homogeneously catalysed Suzuki coupling and hydrogenation reaction as tandem in three phase microemulsions**  
H. Nowothnick, K. Seifert, R. Schomäcker, TU Berlin/D
- P 40 **Highly recyclable, low antimicrobial and antifungal toxicity ionic liquids: a new strategy for Brønsted acid catalysed reaction**  
R. Gore, Dublin City University/IRL; L. Myles, University of Dublin/IRL; M. Špulák, M. Pour, KAOCH, Hradec Kralove/CZ; S. Connon, University of Dublin/IRL; N. Gathergood, Dublin City University/IRL
- P 41 **Tungstate and molybdate based ionic liquids for the extractive and oxidative desulfurization (EODS) of fuel oils**  
T. Gloeckner, A. Jess, University of Bayreuth/D
- P 42 **Rhodium-catalysed hydroformylation in aqueous – multiphase systems**  
A. Rost, T. Hamerla, R. Schomäcker, TU Berlin/D
- P 43 Cancelled
- P 44 **Design, synthesis and application of novel chiral ionic liquids from amino acids**  
S. Leder, K. Bica, P. Gaertner, TU Vienna/A
- P 45 **Carbon dioxide as a building block for production of polymers**  
G. Erre, Y. Dienes, J. Barruet, W. Offermans, B. Köhler, W. Leitner, C. Gürtler, T.E. Müller, RWTH Aachen/D
- P 46 **Di-alkyl and tetra-alkyl pyrazolium ionic liquids: synthesis, characterisation and properties**  
A. Sanzone, C. Chiappe, C. Brocchetta, University of Pisa/I
- P 47 **The Wacker oxidation in ionic liquids**  
A. Sanzone, C. Chiappe, University of Pisa/I

## POSTER PROGRAMME

- P 48 **Synthesis of novel bimetallic redox catalysts for sustainable chemistry**  
A. Prokofieva, F. Doro, S. Soomro, W. Leitner, C. Gürtler, T. Müller, RWTH Aachen/D
- P 49 **Synthesis, characterisation and use of copper nanoparticles/ montmorillonite composite to accelerate the oxidation of various organic functionalities by sodium ferrate**  
V. Singh, S.B. Singh, P.K. Tandon, University of Allahabad/IND
- P 50 **Dielectric characterisation of ion jelly films**  
T. Carvalho, A.R. Brás, N. Correia, R. Igreja, C.J. Dias, New University of Lisbon, Caparica/P; N.M.T. Lourenço, C.A.M. Afonso, Instituto Superior Técnico, Lisbon/P; S. Barreiros, P. Vidinha, M. Dionísio, New University of Lisbon, Caparica/P
- P 51 **Development and characterisation of ionic nucleotides for different bioapplications**  
D. Garcia, S. Barreiros, I. Sá-Nogueira, P. Vidinha, New University of Lisbon, Caparica/P
- P 52 **Asymmetric hydrogenation of alpha- and beta-keto esters in continuous gas-phase applications using supported ionic liquid phase (SILP) catalysts**  
M.J. Schneider, E. Öchsner, M. Haumann, P. Wasserscheid, University of Erlangen-Nuremberg/D
- P 53 **Synthesis, properties, and utilization of 1-ethyl-3-methylimidazolium alkylbenzene sulfonate ionic liquids**  
D. Raynie, K. Shen, South Dakota State University, Brookings, SD/USA
- P 54 **Selective hydrogenation of aromatic amines over heterogeneous catalysts**  
E. Gebauer-Henke, L. Blumenthal, W. Leitner, A. Sim, G. Voss, T.E. Müller, RWTH Aachen/D
- P 55 **Acido-base equilibrium in room temperature ionic liquids: the role of different solvation contributions**  
M. Malvaldi, C. Chiappe, University of Pisa/I
- P 56 **Continuous gas-phase hydroformylation using supported ionic liquid phase (SILP) catalysts - importance of type and amount of ionic liquid**  
A. Schönweiz, A. Buchele, W. Arlt, M. Haumann, P. Wasserscheid, University of Erlangen-Nuremberg/D

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- P 57 **Advanced supported ionic liquid phase (SILP) materials for catalysis**  
M. Haumann, University of Erlangen-Nuremberg/D; R. Franke, Evonik Oxeno GmbH, Marl/D; P. Wasserscheid, University of Erlangen-Nuremberg/D
- P 58 **Gas-phase dimethyl carbonate synthesis using novel supported ionic liquid phase (SILP) catalysts**  
M. Haumann, University of Erlangen-Nuremberg/D; M. Stricker, J. Sundermeyer, University of Marburg/D; B. Melcher, P. Wasserscheid, University of Erlangen-Nuremberg/D
- P 59 **Enzymatic production of eicosapentaenoic acid (EPA) ethyl esters from microalgae with supercritical fluids**  
A. Seibert, University of Stuttgart/D; U. Schmid-Staiger, W. Trösch, Fraunhofer IGB, Stuttgart/D; T. Hirth, University of Stuttgart/D
- P 60 **A COSMO-RS based guide to analyse/quantify the polarity of ionic liquid media**  
J. Palomar, Autonomous University of Madrid/E; J.S. Torrecilla, Complutense University, Madrid/E; J. Lemus, V.R. Ferro, Autonomous University of Madrid/E; F. Rodríguez, Complutense University, Madrid/E
- P 61 **SILP-sCO<sub>2</sub> system for continuous flow asymmetric hydrogenation**  
A. Badoiu, U. Hintermair, G. Franciò, J. Klankermayer, W. Leitner, RWTH Aachen/D
- P 62 **From CO<sub>2</sub> to aialkyl carbonates with organometallic and heterogeneous catalysts**  
D. Ballivet-Tkatchenko, CNRS, Dijon/F; S. Chambrey, S. Vasireddy, University of Bourgogne/F; M. Poor Kalhor, H. Chermette, University of Lyon/F
- P 63 **Phosphonium nitrate ionic liquid catalysed electrophilic aromatic oxy-chlorination**  
M. Noè, A. Perosa, M. Selva, University of Venice/I; L. Zambelli, Galentis S.r.L., Marcon/I
- P 64 **The metathesis of 1-olefins over supported Re-catalysts in supercritical CO<sub>2</sub>**  
M. Fabris, A. Perosa, M. Selva, University of Venice/I; P. Licence, University of Nottingham/UK
- P 65 **Effective n-octane isomerization under exceptionally mild conditions using a novel class of superacidic ionic liquids**  
C. Meyer, M. Haumann, P. Wasserscheid, University of Erlangen-Nuremberg/D

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- P 66 **Continuous gas-phase absorption using supported ionic liquid phase (SILP) materials**  
D. Roth, F. Kohler, M. Haumann, P. Wasserscheid, University of Erlangen-Nuremberg/D
- P 67 **Designing multifunctional ionic liquids for biomass processing**  
A.J. Kunov-Kruse, A. Riisager, R. Fehrmann, TU Denmark, Lyngby/DK
- P 68 **SILP catalysts for the asymmetric hydrogenation**  
 I. Podolean, S.M. Coman, V.I. Parvulescu, University of Bucharest/RO; W. Leitner, RWTH Aachen/D; C. Hardacre, Queen's University of Belfast/UK
- P 69 **Thermoregulated biphasic complex catalysis in polyether modified quaternary ammonium salts ionic liquids**  
 D. Wu, B. Tan, Y.L. Li, Y.H. Wang, J.Y. Jiang, Z.L. Jin, TU Dalian/PRC
- P 70 **Preferential solvation in mixtures of ionic liquids**  
H. Niedermeyer, J. Hallett, P. Hunt, T. Welton, Imperial College, London/UK
- P 71 **Production of biodiesel from the fat of poultry leftovers using the high-temperature pressurized methanol (HTPM) process**  
K. Elst, T. De Baerdemaeker, L. Van Ginneken, VITO, Mol/B
- P 72 **Alkaline ionic liquids applied in supported ionic liquid catalysts (SILCA) for selective hydrogenation of citral**  
P. Virtanen, Åbo Akademi, Turku/FIN; E. Salminen, University of Turku/FIN; T. Salmi, J.-P. Mikkola, Åbo Akademi, Turku/FIN
- P 73 **Do ion pairs exist in ionic liquids?**  
J. Hallett, H. Niedermeyer, M. Lui, T. Welton, Imperial College, London/UK
- P 74 Cancelled

## LAST MINUTE POSTER

- LMP 1 **Preparation of platinum catalysts on ordered mesoporous silica supports by supercritical fluid reactive deposition**  
P.C. With, University of Leipzig/D; A. Feldhoff, University of Hanover/D; G. Upper, M. Türk, Karlsruhe Institute of Technology (KIT)/D; R. Gläser, University of Leipzig/D
- LMP 2 Cancelled
- LMP 3 **What the Heck? Heterogeneous catalytic cross-coupling reactions in supercritical carbon dioxide**  
P.L. Lau, University of Nottingham Malaysia Campus, Semenyih/MAL; P. Styring, R.W.K. Allen, University of Sheffield/UK
- LMP 4 **Good fellows: algae and supercritical CO<sub>2</sub>**  
 A. Wuzik, J. Schultmeyr, N. Igl-Schmid, Nateco<sub>2</sub> GmbH & Co. KG, Wolnzach/D
- LMP 5 **Studies on the interaction of cyclodextrins and ionic liquids**  
K. Zalewska, L. Branco, R. Costa, ew University of Lisbon, Caparica/P
- LMP 6 **Lewis acidic ionic liquids: estimation of their acidity**  
J. Estager, A. Oliferenko, K.R. Seddon, M. Swadzba-Kwasny, Queen's University of Belfast/UK
- LMP 7 **Solvent selection for wax extraction**  
E.H.K Sin, J.H. Clark, R. Marriott, J.R. Sherwood, University of York/UK
- LMP 8 **A methodology for green solvent selection**  
 J. H. Clark, D. J. Macquarrie, J. R. Sherwood, University of York/UK
- LMP 9 **Promotional effect of CO<sub>2</sub> in the oxidation of alcohols and cyclic olefins over carbon nitrides**  
S.E. Park, M.B. Ansari, Inha University, Incheon/ROK
- LMP 10 **Eco-friendly Knoevenagel condensation in aqueous phase over amino-imidazolyl ionic liquid mesostructured silica**  
H. Jin, S.E. Park, Inha University, Incheon/ROK; T. Satyanarayana, A. Chakradhar, Hyderabad University/IND
- LMP 11 **Green reaction media for asymmetric Henry reaction by recyclable chiral Cu(II) complexes**  
N. Khan, S.E. Park, Inha University, Incheon/ROK
- LMP 12 **Butyl lactate production by esterification in ionic liquids using microwave irradiation**  
T. Banyai, University of Pannonia, Veszprem/H; S. Kavcic, University of Maribor/SLO; K. Belafi-Bako, University of Pannonia, Veszprem/H; Z. Knez, M. Habulin, University of Maribor/SLO; L. Gubicza, University of Pannonia, Veszprem/H

## LAST MINUTE POSTER

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- LMP 13 **Production of aromatic and quinonoid molecules by depolymerisation of lignin in ionic liquids**  
K. Stärk, A. Bösmann, P. Wasserscheid, University of Erlangen-Nuremberg/D
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- LMP 14 **Production of hydroxide ionic liquid precursors based on imidazolium, ammonium and pyrrolidinium cations via bipolar membrane electrodialysis**  
Y. Wang, Chinese Academy of Sciences, Dalian/PRC;  
A. König, P. Keil, University of Erlangen-Nuremberg/D;  
U. Welz-Biermann, Chinese Academy of Sciences, Dalian/PRC
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- LMP 15 **Superhydrophobic surfaces by sustainable technology**  
O. Werner, Uppsala University/S; I. Rodriguez, Lund University/S; L. Wågberg, Royal Institute of Technology, Stockholm/S; C. Turner, Lund University/S
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- LMP 16 **Long-term stability of ionic liquids at temperatures over 180 °C**  
M. Götz, F. Ortloff, Karlsruhe Institute of Technology/D;  
M. Taige, T.J.S. Schubert, IoLiTec GmbH, Heilbronn/D
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- LMP 17 **Pyrrolidinium salts used as solvents in Diels-Alder reaction between cyclopentadiene and  $\alpha,\beta$ -unsaturated dienophiles**  
W. Stefaniak, B. Bittner, E. Milchert, West Pomeranian University of Technology Szczecin/PL
- 
- LMP 18 **Electron microscopy study on sol-gel derived double metal cyanide catalysts for the copolymerisation of epoxides and CO<sub>2</sub>**  
T. Reier, Y. Dienes, G.J. Müller, W.K. Offermans, A. Reinholdt, T.E. Weirich, T.E. Müller, RWTH Aachen/D
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- LMP 19 **Oxidative carbonylation of aliphatic polyols**  
F. Doro, P. Winnertz, W. Leitner, T.E. Müller, RWTH Aachen/D
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- LMP 20 **Carbon dioxide as C1 building block for polymers**  
S. Elmas, W. Leitner, W. Offermans, T.E. Müller, RWTH Aachen/D
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