

<b>Poster Programme</b>
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<b>Poster Session</b>
<b>Sunday 14<sup>th</sup> May 2017, 17:00-18:30</b>

[P001]	<b>Surface plasma resonance tuning chameleonic polymer triggered by temperature and light</b> Y. Yan, X.B. Hu*, <i>Shanghai Jiaotong University, China</i>
[P002]	<b>Valorized zinc oxide from non-ferrous metal waste and validation in industrial catalytic applications</b> E. Añó Montalvá* <sup>1</sup> , R. Beneito Ruiz <sup>1</sup> , J. Fortés Monteiro <sup>1</sup> , A. Alfonso Esteve <sup>1</sup> , L. Rey Martínez <sup>1</sup> , A. Chica Lara <sup>2</sup> , M. Menor Valls <sup>2</sup> , <sup>1</sup> <i>Instituto Tecnológico del Producto Infantil y Ocio, Spain</i> , <sup>2</sup> <i>Instituto de Tecnología Química, Spain</i>
[P003]	<b>A bioinspired catalytic oxidative coupling of primary amines to imines under air for the synthesis of n-heterocycles</b> K.M.H. Nguyen, M. Largeton*, <i>University Paris Descartes, France</i>
[P005]	<b>In-built Tb<sup>4+</sup>/Tb<sup>3+</sup> redox centers engineering of Bi<sub>2</sub>MoO<sub>6</sub> by Tb doping for enhanced visible-light photocatalytic activity</b> H. Li*, W. Li, F. Wang, <i>University of Science and Technology- Beijing, China</i>
[P006]	<b>Sugar based low melting mixtures as green solvents in the hantzsch synthesis of substituted 1,4-dihydropyridines</b> A.K. Jainarayanan* <sup>1</sup> , G. Shridhar <sup>2</sup> , S. Ladage <sup>1</sup> , L. Ravishankar <sup>3</sup> , <sup>1</sup> <i>Homi Bhabha Centre for Science Education (TIFR), India</i> , <sup>2</sup> <i>V. K. Krishna Menon College of Commerce &amp; S. S. Dighe College of Science, India</i> , <sup>3</sup> <i>K.E.T's V. G. Vaze College of Arts, Science and Commerce, India</i>
[P007]	<b>Catalytic effects of MWCNTs decorated with TiO<sub>2</sub> on hydrogen exchange reaction of compacted LiBH<sub>4</sub>-MgH<sub>2</sub> for reversible hydrogen storage materials in fuel cell-powered vehicles</b> R. Utke*, P. Plerdsranoy, S. Chanthee, <i>Suranaree University of Technology, Thailand</i>
[P008]	<b>Microwave-assisted conversion of citronellal in a solvent-less condition over ruthenium complex-immobilized saponite catalyst</b> I. Fatimah* <sup>1</sup> , S. Yudha <sup>1</sup> , S. Wang <sup>2</sup> , <sup>1</sup> <i>Universitas Islam Indonesia, Indonesia</i> , <sup>2</sup> <i>Curtin University, Australia</i>
[P009]	<b>Evaluating the use of organic wastes as collector in copper ore froth flotation</b> L. Reyes-Bozo <sup>1,5</sup> , P. Higuera* <sup>1</sup> , C. Fúnez Guerra <sup>2</sup> , A. Godoy-Faúndez <sup>3</sup> , E. Vyhmeister <sup>4</sup> , H. Valdés-González <sup>5</sup> , J.L. Salazar <sup>6</sup> , R. Herrera-Urbina <sup>7</sup> , <sup>1</sup> <i>Universidad de Castilla-La Mancha, Spain</i> , <sup>2</sup> <i>Centro Nacional del Hidrógeno, Spain</i> , <sup>3</sup> <i>Universidad del Desarrollo, Chile</i> , <sup>4</sup> <i>Universidad de las Fuerzas Armadas - ESPE, Ecuador</i> , <sup>5</sup> <i>Universidad Central de Chile, Chile</i> , <sup>6</sup> <i>Universidad de Santiago de Chile, Chile</i> , <sup>7</sup> <i>Universidad de Sonora, Mexico</i>
[P010]	<b>Simultaneous H<sub>2</sub> production and pollutants degradation from biodiesel wastewater by the photocatalytic oxidation via different crystal structures of TiO<sub>2</sub></b> P. Pansa-Ngat, M. Hunsom*, <i>Chulalongkorn University, Thailand</i>
[P011]	<b>Big-data driven sustainable chemistry identification for industry legislation</b> Y. Liu* <sup>1</sup> , Y. Yu <sup>1</sup> , H. Li <sup>2</sup> , <sup>1</sup> <i>Institute of Semiconductors, Chinese Academy of Sciences, China</i> , <sup>2</sup> <i>Academy of Mathematics and Systems Science, Chinese Academy of Sciences, China</i>
[P012]	<b>Microbial desalination cells as a new technology for salt removal and wastewater treatment</b> S.B. Sevda, <i>Dr B R Ambedkar National Institute of Technology, India</i>
[P013]	<b>Glutathione-directed synthesis of Cr(VI)- and temperature-responsive fluorescent copper nanoclusters and their applications in cellular imaging</b> L. Kong*, W. Liu, P. Zhu, <i>Wuxi Center for Disease Control and Prevention, China</i>
[P014]	<b>Oxidative aerobic NHC catalysis via multistep electron transfer</b> H. Sundén*, A. Axelsson, L. Ta, E. Hammarvid, <i>Chalmers University of Technology, Sweden</i>
[P016]	<b>Hexamethylenetetramine-mediated growth of nanospine-like CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> for highly reproducible and stable perovskite solar cells</b> Y-Z. Zheng*, X-S. Lai, E-F. Zhao, X. Tao, <i>Beijing University of Chemical Technology, China</i>
[P017]	<b>Towards high catalytic performance - merging homogeneous catalysed reactions via tandem catalysis</b> D. Vogelsang*, K.A. Ostrowski, A.J. Vorholt, <i>TU Dortmund, Germany</i>
[P019]	<b>Organocatalytic alpha-amination of aldehydes: optimizing the nitrogen source to broaden overall functional group tolerance</b> R.J. McGorry <sup>1</sup> , M.D. Pitzen <sup>2</sup> , S.K. Allen <sup>1</sup> , T.C. Coombs* <sup>1</sup> , <sup>1</sup> <i>University of North Carolina Wilmington, USA</i> , <sup>2</sup> <i>Campbell University, USA</i>
[P020]	<b>Optimisation of the eco-friendly extraction of bioactive monomeric phenolics and useful flavour precursors from grape waste</b> R.E. Jelley*, D. Barker, B. Fedrizzi, <i>University of Auckland, New Zealand</i>
[P021]	<b>Imine reductases-new biocatalysts for chiral amine synthesis</b> S. Velikogne* <sup>1</sup> , J. Schrittwieser <sup>2</sup> , W. Kroutil <sup>1,2</sup> , <sup>1</sup> <i>Acib GmbH, Austria</i> , <sup>2</sup> <i>University of Graz, Austria</i>
[P022]	<b>Monitoring and reuse: a way to generating smaller amounts of effluents in mineral flotation systems</b> I. Pedre* <sup>1,2</sup> , L. Méndez de Leo <sup>1,2</sup> , F. Battaglini <sup>1,2</sup> , G.A. González <sup>1,2</sup> , <sup>1</sup> <i>Universidad de Buenos Aires, Argentina</i> , <sup>2</sup> <i>Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina</i>
[P023]	<b>Electrocatalytic upgrading of itaconic acid to methylsuccinic acid using fermentation broth</b> J. Holzhäuser* <sup>1</sup> , J. Artz <sup>1</sup> , S. Palkovits <sup>1,2</sup> , D. Kreyenschulte <sup>3</sup> , J. Büchs <sup>3</sup> , R. Palkovits <sup>1</sup> , <sup>1</sup> <i>RWTH Aachen, ITMC, Germany</i> , <sup>2</sup> <i>RWTH Aachen, CMT, Germany</i> , <sup>3</sup> <i>RWTH Aachen, AVT, Germany</i>

[P025]	<b>Mechanistic studies of the Cu(OH)<sup>+</sup>-catalyzed glucose-fructose-isomerization in water</b> J.B. Mensah*, I. Delidovich, L. Weisgerber, P.J.C. Hausoul, R. Palkovits, <i>RWTH Aachen University, Germany</i>
[P026]	<b>The concept of a sustainable use of biocidal active substances - applied to rodenticides</b> S. Wieck* <sup>1,2</sup> , A. Friesen <sup>2</sup> , O. Olsson <sup>1</sup> , S. Setzer <sup>2</sup> , B. Schwarz-Schulz <sup>2</sup> , I. Nöh <sup>2</sup> , K. Kümmerer <sup>1</sup> , <sup>1</sup> Leuphana University Lüneburg, Germany, <sup>2</sup> Umweltbundesamt, Germany
[P027]	<b>Removal of anionic surfactants by a sustainable porous material</b> A. Zanoletti*, G. Potieri, E. Bontempi, L.E. Depero, <i>University of Brescia, Italy</i>
[P028]	<b>Experimental assessment on replacement of diesel fuel with 20% blend of castor biodiesel in an existing single cylinder CI engine</b> A. Deep*, S.S. Sandhu, S. Chander, <i>Dr. B. R. Ambedkar National Institute of Technology, India</i>
[P029]	<b>Role of water retention value in hot water treatment of biomass</b> S. Sim*, J. Yoon, T. Kim, Y-W. Lee, <i>Seoul National University, Republic of Korea</i>
[P030]	<b>Characteristic of the bio-oil and its chemicals from fast pyrolysis of sugarcane (<i>Saccharum officinarum</i> L) leaves</b> W. Charusiri* <sup>1</sup> , T. Vitidsant <sup>2</sup> , <sup>1</sup> Srinakharinwirot University, Thailand, <sup>2</sup> Chulalongkorn University, Thailand
[P031]	<b>Novel fluorinated tensioactive extractant combined with flotation for decontamination of extractant residual during solvent extraction</b> X. Wu*, Z. Chang, Y. Liu, <i>University of Science and Technology Beijing, China</i>
[P032]	<b>Process innovations towards more sustainable production of large volume chemicals</b> A.M. Bazzanella, <i>DECHEMA e.V., Germany</i>
[P033]	<b>Effectiveness of neem based biopesticide to enhance rice (<i>oryza sativa</i>) productivity</b> P.S.D. Kamarulzaman, S. Yusup*, N.H. Ramli@yusof, B.W.B. Kueh, N. Osman, R. Talib, S. Abdul, M. Mior Hassan, H. Mohamad, S. Mokhtar, <i>Universiti Teknologi Petronas, Malaysia</i>
[P035]	<b>Systematic antisolvent selection for diphenhydramine crystallisation in continuous pharmaceutical manufacturing</b> S.A. Diab*, D.I. Gerogiorgis, <i>University of Edinburgh, UK</i>
[P036]	<b>Magnetic nanocomposite as multifunctional material for transparent and conductive coatings</b> M. Jelic* <sup>1</sup> , G. Beck <sup>1</sup> , M. Kirsch <sup>2</sup> , S. Barcikowski <sup>3</sup> , B. Gökce <sup>3</sup> , E. Mühlhausen <sup>3</sup> , <sup>1</sup> Fraunhofer Anwendungszentrum Ressourceneffizienz, Germany, <sup>2</sup> Kirsch Kunststofftechnik GmbH, Germany, <sup>3</sup> University Duisburg-Essen, Germany
[P037]	<b>Porous metal-oxides as stable supports for PEM fuel cells and electrolysis</b> D. Jalalpoor* <sup>1</sup> , J. Knossalla <sup>1</sup> , E. Pizzutilo <sup>2</sup> , S. Geiger <sup>2</sup> , K.J.J. Mayrhofer <sup>3</sup> , F. Schüth <sup>1</sup> , <sup>1</sup> Max-Planck-Institut für Kohlenforschung, Mülheim a. d. Ruhr, Germany, <sup>2</sup> Max-Planck-Institut für Eisenforschung, Düsseldorf, Germany, <sup>3</sup> Forschungszentrum Jülich GmbH - Helmholtz-Institute Erlangen-Nürnberg for Renewable Energy, Germany
[P038]	<b>Mechanochemical friedel-crafts-alkylation - a sustainable pathway towards porous organic polymers</b> E. Troschke*, S. Grätz, L. Borchardt, <i>Technische Universität Dresden, Germany</i>
[P039]	<b>Behaviour of organic and inorganic salts in two base catalyzed reactions; a contribution to the discovery of "greener" and efficient catalysts</b> I. Chiarotto*, M. Di Pilato, M. Feroci, A. Inesi, <i>Sapienza University of Roma, Italy</i>
[P040]	<b>First total synthesis of acortatarin a based on native and metal-doped zeolite-catalyzed steps</b> E. Wimmer, S. Borghèse, A. Blanc, V. Bénétou*, P. Pale, <i>Strasbourg University, France</i>
[P041]	<b>Mechanochemical suzuki polycondensation - from linear to porous carbonaceous polymers</b> S. Grätz*, B. Wulfrum, L. Borchardt, <i>Technische Universität Dresden, Germany</i>
[P042]	<b>Advanced studies on thermal stability and alteration of molten nitrate salts used in thermal energy storage</b> A. Bonk* <sup>1</sup> , T. Bauer <sup>2</sup> , <sup>1</sup> German Aerospace Center, Stuttgart, Germany, <sup>2</sup> German Aerospace Center, Cologne, Germany
[P043]	<b>Coal fly ash waste to useful materials for the removal of ammonia from urine using a greener process</b> B. Makgabutlane*, E.N. Nxumalo, D. Hildebrandt, B. Dladla, S.D. Mhlanga, <i>University of South Africa, South Africa</i>
[P044]	<b>Combining autohydrolysis with ionic liquid pretreatments of pinus radiata to improve enzymatic saccharification yield</b> V. Rigual, T.M. Santos, M. Oliet*, M.V. Alonso, J.C. Domínguez, F. Rodríguez, <i>Complutense University, Spain</i>
[P045]	<b>Preparation in water and antimicrobial properties of 5-substituted aryl 1H-tetrazoles</b> A. Coca*, L. Feinn, J. Dudley, E. Roberts, <i>Southern Connecticut State University, USA</i>
[P046]	<b>Synthesis of cinchona-based squaramide polymer catalysts for sustainable process of asymmetric reactions</b> S. Itsuno*, M.S. Ullah, <i>Toyohashi University of Technology, Japan</i>
[P047]	<b>Development and implementation of new strategies for green synthesis of unprotected N-glycosyl amino acids</b> S. Pinzon*, Z. Rivera, J. Garcia, <i>Universidad Nacional de Colombia - Sede Bogota, Colombia</i>
[P048]	<b>In-situ catalytic pyrolysis of oak wood chips with HZSM-5 catalyst</b> K. Tekin, K. Alper, M.K. Akalin, S. Karagoz*, <i>Karabuk University, Turkey</i>
[P049]	<b>An efficient and green method for the conversion of lignocellulosic waste into value-added chemicals</b> K. Tekin* <sup>1</sup> , M-M. Titirici <sup>2</sup> , <sup>1</sup> Karabuk University, Turkey, <sup>2</sup> Queen Mary University of London, UK
[P050]	<b>A sustainable method for controlled release of silver ions and disinfection of water</b> K. Uthradevi, G. Singhal, P.C. Sabumon, S.M. Maliyekkal*, <i>VIT University, India</i>
[P051]	<b>Optimization of process parameters for the hydrothermal liquefaction of jujuba stones by experimental design approach</b> G.N. Aykaç, M.K. Akalin*, K. Tekin, S. Karagoz, <i>Karabuk University, Turkey</i>
[P052]	<b>Decomposition of lignocellulosic biomass with a water tolerant Lewis acid in hydrothermal and supercritical media</b> M. Akalin, K. Tekin*, K. Alper, S. Karagoz, <i>Karabuk University, Turkey</i>
[P055]	<b>Efficient synthesis of iminosugars via protecting-group free synthesis</b> A. Hunt-Painter*, B. Stocker, M. Timmer, <i>Victoria University of Wellington, New Zealand</i>

[P056]	<b>Synthesis of Guerbet alcohols by self and cross-condensation reactions of a variety of fatty alcohols and terpenes over Ni/Cu hydrotalcite-derived mixed oxides</b> W.Y. Hernández, K. De Vlieger, P. Van Der Voort, A. Verberckmoes*, <i>University Ghent, Belgium</i>
[P058]	<b>Effectiveness of bio-pesticides against brown planthopper nilaparvata lugens in paddy cultivation</b> N.H. Ramli* <sup>1</sup> , S. Yusup <sup>1</sup> , B. Kueh <sup>1</sup> , P.S.D. Kamarulzaman <sup>1</sup> , N. Osman <sup>1</sup> , M. Rahim <sup>2</sup> , R. Aziz <sup>2</sup> , S. Mokhtar <sup>3</sup> , A.B. Ahmad <sup>3</sup> , <sup>1</sup> <i>Universiti Teknologi PETRONAS, Malaysia</i> , <sup>2</sup> <i>Department of Agriculture of Perak Tengah, Malaysia</i> , <sup>3</sup> <i>Bio-X Techno Sdn. Bhd., Malaysia</i>
[P059]	<b>Hydrogenolysis of sorbitol to produce 1,2-propanediol and ethylene glycol over copper catalysts with fine controlled particle size</b> X. Wang*, P. Hausoul, R. Palkovits, <i>Institut für Technische und Makromolekulare Chemie, Germany</i>
[P060]	<b>Performance of H-infinity and PID controllers in robust control of the horizontal wind turbines with model uncertainties</b> H. Moradi <sup>1</sup> , G. Vossoughi <sup>1</sup> , A. Aboutorabi Fard* <sup>2</sup> , <sup>1</sup> <i>Sharif University of Technology, Iran</i> , <sup>2</sup> <i>Tehran International Campus of Sharif University of Technology, Iran</i>
[P061]	<b>Chemical versus biocatalytic ortho-carboxylation of phenols</b> K. Plasch* <sup>1</sup> , S.M. Glueck <sup>1,2</sup> , K. Faber <sup>1</sup> , <sup>1</sup> <i>University of Graz, Austria</i> , <sup>2</sup> <i>Austrian Centre of Industrial Biotechnology c/o, Austria</i>
[P062]	<b>Nonlinear multivariable control of a wind turbine under various operating modes &amp; uncertainties: A comparison on sliding mode &amp; H-infinity control</b> R. Faraji Nayeh <sup>1</sup> , H. Moradi <sup>1</sup> , G. Vossoughi <sup>1</sup> , A. Aboutorabi Fard* <sup>2</sup> , <sup>1</sup> <i>Sharif University of Technology, Iran</i> , <sup>2</sup> <i>Tehran International Campus of Sharif University of Technology, Iran</i>
[P063]	<b>Syntheses and biophysical and antioxidant properties of bolaform surfactants from L-rhamnose and trans-ferulic acid</b> Y. De Gaetano* <sup>1,3</sup> , F. Obounou Akong <sup>1</sup> , M.N. Nasir <sup>2</sup> , M. Deleu <sup>2</sup> , S. Bouquillon <sup>1</sup> , F. Allais <sup>3</sup> , <sup>1</sup> <i>Université de Reims Champagne-Ardenne, France</i> , <sup>2</sup> <i>Gembloux Agro-Biotech, Belgium</i> , <sup>3</sup> <i>Agro-ParisTech, France</i>
[P064]	<b>Sustainable preparation of immobilized (bio)catalysts for heterogeneous-stereoselective transformations</b> D. Romano* <sup>1</sup> , S. Farris <sup>1</sup> , V. De Vitis <sup>1</sup> , R. Mangayil <sup>2</sup> , C. Damiano <sup>1</sup> , A. Pinto <sup>1</sup> , <sup>1</sup> <i>University of Milan, Italy</i> , <sup>2</sup> <i>Tampere University of Technology, Finland</i>
[P065]	<b>Carboxymethyl cellulose films for active packaging</b> R. Sole, V. Gatto, L. Agostinis, V. Beghetto*, <i>University Ca'Foscari of Venice, Italy</i>
[P066]	<b>Process intensification: new methods for lignin base catalyzed depolymerization</b> X. Erdocia, J. Fernández-Rodríguez*, P.L. de Hoyos, M. González-Alriols, J. Labidi, <i>University of the Basque Country, Spain</i>
[P067]	<b>Synthesis of bio-based methyl ethyl ketone from the decarboxylation of levulinic acid</b> N-I. Guzmán-Barrera*, J. Peydecastaing, P. Behra, C. Sablayrolles, E. Vedrenne, C. Vaca-García, S. Thiebaud-Roux, <i>Institute National Polytechnique de Toulouse, France</i>
[P068]	<b>Comparison of UVA and UVC irradiation of fluoroquinolones and their MICs for sustainable water treatment</b> M. Voigt* <sup>1,2</sup> , I. Bartels <sup>1</sup> , A. Nickisch-Hartfiel <sup>1</sup> , M. Jaeger <sup>1</sup> , <sup>1</sup> <i>Niederrhein University of Applied Sciences, Germany</i> , <sup>2</sup> <i>University Duisburg-Essen, Germany</i>
[P070]	<b>Lithium recovery from simulated waste lithium battery</b> B. Wang, X. Wu*, Z. Chang, Z. Yao, W. Li, <i>University of Science and Technology Beijing, China</i>
[P071]	<b>Highly efficient CO<sub>2</sub> reforming of methane over Ni catalyst in a spark plasma reactor</b> D. Lašič Jurkovič* <sup>1</sup> , H. Puliyalil <sup>1</sup> , J.L. Liu <sup>1,2</sup> , A. Pohar <sup>1</sup> , B. Likozar <sup>1</sup> , <sup>1</sup> <i>National Institute of Chemistry, Slovenia</i> , <sup>2</sup> <i>Dalian University of Technology, China</i>
[P072]	<b>One-pot laser-assisted production of platinum-cobalt bimetallic nanoalloys encased within a carbon framework and their evaluation as efficient oxygen reduction electrocatalysts</b> G. Martínez <sup>1,2</sup> , A. Malumbres <sup>1,2</sup> , J.C. Calderon <sup>3</sup> , R. Mallada <sup>1,2</sup> , J.L. Hueso* <sup>1,2</sup> , J. Santamaria <sup>1,2</sup> , <sup>1</sup> <i>Institute of Nanoscience of Aragon, Spain</i> , <sup>2</sup> <i>Networking Research Center on Bioengineering, Spain</i> , <sup>3</sup> <i>Instituto de Carboquímica de Aragon, Spain</i>
[P074]	<b>Greening the esterification of bio-based isosorbide</b> A. Inayat*, T.J. Farmer, J.H. Clark, <i>Green Chemistry Centre of Excellence, UK</i>
[P075]	<b>Solvent-free preparation of ethyl esters using immobilized fungal resting cells</b> E. Yara-Varón*, M. Balcells, M. Torres, R. Canela-Garayoa, <i>University of Lleida, Spain</i>
[P076]	<b>Microwave-assisted bamboo fractionation using a novel acid-catalysed organosolv process</b> T. Li, J. Remón*, V.L. Budarin, J.H. Clark, <i>University of York, UK</i>
[P077]	<b>Production of bio-oil and bio-char by doping-free, microwave-assisted, pressurised pyrolysis of hemicellulose</b> T. Li <sup>1</sup> , J. Remón* <sup>1</sup> , P.S. Shuttleworth <sup>2</sup> , Z. Jiang <sup>1,3</sup> , V.L. Budarin <sup>1</sup> , J.H. Clark <sup>1</sup> , <sup>1</sup> <i>University of York, UK</i> , <sup>2</sup> <i>Instituto de Ciencia y Tecnología de Polímeros, Spain</i> , <sup>3</sup> <i>Sichuan University, China</i>
[P080]	<b>Towards the visible-NIR driven photocatalytic degradation of organic contaminants assisted by carbon nanosensitizers</b> M.C. Ortega-Liebana <sup>1,2</sup> , J.L. Hueso* <sup>1,2</sup> , N. Mas <sup>1</sup> , A. Larrea <sup>1,2</sup> , V. Sebastian <sup>1,2</sup> , C. Bueno-Alejo <sup>1,2</sup> , R. Mallada <sup>1,2</sup> , G. Martínez <sup>1,2</sup> , K.L. Yeung <sup>3</sup> , J. Santamaria <sup>1,2</sup> , <sup>1</sup> <i>Networking Research Center on Bioengineering, Spain</i> , <sup>2</sup> <i>Department of Chemical Engineering and Environmental Technology and Institute of Nanoscience of Aragon, Spain</i> , <sup>3</sup> <i>The Hong Kong University of Science and Technology, Hong Kong</i>
[P081]	<b>Efficacy of the Fenton reaction in a greywater reuse treatment system for a hair salon</b> C. Edge <sup>1</sup> , J.B. Houser* <sup>1</sup> , M.S. Hamburger <sup>1</sup> , B. Raichle <sup>1</sup> , E. Bandala <sup>2</sup> , <sup>1</sup> <i>Appalachian State University, USA</i> , <sup>2</sup> <i>UDLAP, Mexico</i>
[P082]	<b>Processing of Betula pendula with ionic liquids focusing on polymer chemistry</b> V. Strehmel* <sup>1</sup> , D. Strunk <sup>1</sup> , H. Wetzel <sup>2</sup> , N. Strehmel <sup>3</sup> , <sup>1</sup> <i>Niederrhein University of Applied Sciences, Germany</i> , <sup>2</sup> <i>Fraunhofer Institute for Applied Polymer Research, Germany</i> , <sup>3</sup> <i>Leibniz Institute of Plant Biochemistry, Germany</i>
[P083]	<b>Influence of autohydrolysis pretreatment on lignin purity from lignocellulosic waste streams</b> J. Fernández-Rodríguez*, E. Robles, X. Erdocia, M. González Alriols, J. Labidi, <i>University of the Basque Country, Spain</i>

[P084]	<b>Preparation of metal-free electrocatalysts from starch-derived residues</b> C.J. Mena-Duran* <sup>1</sup> , D.P. Cetina-Arenas <sup>1</sup> , P. Quintana <sup>2</sup> , B. Escobar <sup>1</sup> , <sup>1</sup> Centro de Investigación Científica de Yucatán, Mexico, <sup>2</sup> CINVESTAV - Mérida, Mexico
[P085]	<b>Gold nanotriangles decorating aluminium/magnesium oxides as novel photocatalysts in the selective hydrogenation of nitro aromatics</b> J. Graus <sup>1</sup> , C. Bueno-Alejo <sup>1,2</sup> , J.L. Hueso* <sup>1,2</sup> , S. Irusta <sup>1,2</sup> , R. Mallada <sup>1,2</sup> , J. Santamaria <sup>1,2</sup> , <sup>1</sup> Department of Chemical Engineering and Environmental Technology and Institute of Nanoscience of Aragon, Spain, <sup>2</sup> Networking Research Center on Bioengineering, Biomaterials and Nanomedicine, Spain
[P086]	<b>Heterogeneously catalysed amination of alcohols in the aqueous phase</b> J. Niemeier* <sup>1</sup> , R. Engel <sup>1,2</sup> , M. Rose <sup>1</sup> , <sup>1</sup> RWTH Aachen University, Germany, <sup>2</sup> Cardiff University, UK
[P087]	<b>Oxoclusters-based hybrid polymers as heterogeneous oxydesulfurization catalysts</b> M. Carraro* <sup>1</sup> , S. Gross <sup>1,2</sup> , <sup>1</sup> University of Padova, Italy, <sup>2</sup> Institute of Condensed Matter Chemistry and Technologies for Energy, Italy
[P088]	<b>Innovation in an alternative to methyl bromide or phosphine on grain fumigation</b> C. Zhang*, L.M. Tao, B. Jiang, S.T. Zhang, <i>Shanghai Institute of Organic Chemistry, Chinese academy of science, China</i>
[P089]	<b>Study of the solvent-free sucrose esters production by transesterification of sucrose and methyl palmitate</b> M. Gutierrez, J. Rivera, A. Suaza, A. Orjuela*, <i>Universidad Nacional de Colombia, Colombia</i>
[P090]	<b>Combined multi-stage 4D QSAR approach for prediction and design of compounds with necessary industrial/biological function and low toxicity at www.chemosophia.com</b> M.A. Grishina*, V.A. Potemkin, <i>South Ural State University, Russia</i>
[P091]	<b>Formulation and modeling of paraffin substitutes references</b> K. Dunchych*, A. Arhaliass, C. Loisel, <i>University of Nantes, France</i>
[P092]	<b>Sugar based low melting mixtures - An emerging alternative green media in organic transformations</b> A.K. Jainarayanan* <sup>1</sup> , G. Shridhar <sup>2</sup> , S. Ladage <sup>3</sup> , L. Ravishankar <sup>4</sup> , <sup>1</sup> Homi Bhabha Centre for Science Education (TIFR), IISER Mohali, India, <sup>2</sup> V. K. Krishna Menon College of Commerce & S. S. Dighe College of Science, India, <sup>3</sup> Homi Bhabha Centre for Science Education, India, <sup>4</sup> K.E.T's V. G. Vaze College of Arts, Science and Commerce, India
[P093]	<b>Permethrin biodegradation pathway in Acinetobacter baumannii strain ZH-14</b> S.H. Chen*, Y.M. Feng, X.H. Fan, H. Zhan, S.Y. Teng, F. Yang, <i>South China Agricultural University, China</i>
[P094]	<b>Removal of a textile dye using photovoltaic electrocoagulation</b> B. Khemila <sup>1</sup> , B. Merzouk* <sup>2</sup> , K. Madani <sup>1</sup> , A. Chouder <sup>2</sup> , J-P. Leclerc <sup>3</sup> , F. Lapique <sup>3</sup> , <sup>1</sup> University of Bejaia, Algeria, <sup>2</sup> University of M'sila, Algeria, <sup>3</sup> University of Lorraine, France
[P095]	<b>Pyrolysis and kinetics studies of de-oiled castor seed cake (ricinus cumunis) using thermogravimetry</b> M.A. Sokoto* <sup>1</sup> , R. Sign <sup>2</sup> , J. Kumar <sup>2</sup> , B. Bhoavia <sup>2</sup> , <sup>1</sup> Usmanu Danfodiyo University, Nigeria, <sup>2</sup> Indian Institute of Petroleum - Dehradun, India
[P096]	<b>Natural materials for the removal of pharmaceuticals micro-pollutants from water: Clay versus chitosan - Comparison of their adsorption capacity</b> L. Mahouachi* <sup>1,2</sup> , T. Rastogi <sup>1</sup> , I. Ghorbel-Abid <sup>2</sup> , D. Ben Hassen Chehimi <sup>2</sup> , K. Kümmerer <sup>1</sup> , <sup>1</sup> Leuphana University Lüneburg, Germany, <sup>2</sup> Carthage University, Tunisia
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[P098]	<b>Application of FT-IR to evaluate sugar cane wax extraction using limonene</b> E.M. Reis, R.M.A. Oliveira, M.A.B. Esteves, P.F.M. Martinez*, <i>University of Campinas, Brazil</i>
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[P101]	<b>Changes of chemical structure of Populus by alkali pre-treatment</b> M. Zborowska* <sup>1</sup> , H. Waliszewska <sup>1</sup> , B. Waliszewska <sup>1</sup> , P. Boruszewski <sup>2</sup> , <sup>1</sup> Poznan University of Life Sciences, Poland, <sup>2</sup> Warsaw University of Life Sciences, Poland
[P102]	<b>Changes of sorghum cellulose structure after methane fermentation</b> H. Waliszewska <sup>1</sup> , M. Zborowska* <sup>1</sup> , B. Waliszewska <sup>1</sup> , S. Borysiak <sup>2</sup> , A. Antczak <sup>3</sup> , W. Czekala <sup>1</sup> , <sup>1</sup> Poznan University of Life Sciences, Poland, <sup>2</sup> Poznan University of Technology, Poland, <sup>3</sup> Warsaw University of Life Sciences, Poland
[P104]	<b>Non-conventional methods for extraction of algal oil</b> S. Vinjamuri, C.K. Chandrababu, K. Sweekrity*, B. Rajiv, R. Anish, <i>BMSCE, India</i>
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[P106]	<b>Low cost heterogeneous catalyst from Achatina fulica snail shell and its application for biodiesel conversion under Microwave Irradiation</b> E.A. Kurniawati*, I. Anggita, A. Akbari, I. Fatimah, <i>Universitas Islam Indonesia, Indonesia</i>
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[P109]	<b>Microwave-assisted conversion of citronellal in a solvent-less condition over ruthenium complex-immobilized saponite catalyst</b> S. Yudha* <sup>1</sup> , S.Y. Leng <sup>2</sup> , <sup>1</sup> Universitas Islam Indonesia, Indonesia, <sup>2</sup> Universiti Tunjku Abdur Rahman, Malaysia
[P110]	<b>Microwaveassisted conversion of citronellal in a solventless condition over rutheniumcompleximmobilized saponite catalyst</b> I. Fatimah* <sup>1</sup> , S.P. Yudha <sup>1</sup> , S. Wag <sup>2</sup> , <sup>1</sup> Universitas Islam Indonesia, Indonesia, <sup>2</sup> Curtin University, Australia
[P111]	<b>KF-modified CaO catalyst derived from snail (pomacea canaliculata l) shell as low cost catalyst in biodiesel conversion</b> I. Fatimah*, R. Pujiarti, S. Ardianti, H. Fatmawati, W. Puspitasari, Universitas Islam Indonesia, Indonesia
[P112]	<b>Highly versatile and controllable ruthenium metathesis catalysts</b> K. Song, K. Kim, D. Hong, S.H. Hong*, Seoul National University, Republic of Korea
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[P114]	<b>Valorization of glycerol using rhenium-based catalysts</b> M. Lupacchini* <sup>1</sup> , N. d'Alessandro <sup>1</sup> , L. Tonucci <sup>1</sup> , E. Colacino <sup>2</sup> , <sup>1</sup> Università degli Studi "G.d'Annunzio, Italy, <sup>2</sup> Université de Montpellier, France
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[P121]	<b>Chemical and spectroscopic analyses for grasses characterization, as potential raw materials for 2G ethanol production</b> W.T.L. da Silva* <sup>1</sup> , F.H. Martelli <sup>1,2</sup> , <sup>1</sup> Embrapa Instrumentação, Brazil, <sup>2</sup> Institute of Chemistry of São Carlos - University of São Paulo, Brazil
[P122]	<b>Deep eutectic solvents: Sustainable extraction solvents in the petrochemical industry?</b> J. García* <sup>1</sup> , M. Larriba <sup>2</sup> , M. Ayuso <sup>1</sup> , P. Navarro <sup>1</sup> , N. Delgado-Mellado <sup>1</sup> , F. Rodríguez <sup>1</sup> , <sup>1</sup> Universidad Complutense de Madrid, Spain, <sup>2</sup> Universidad Autónoma de Madrid, Spain
[P123]	<b>Production of liquid hydrocarbon from millet husk</b> M.A. Sokoto* <sup>1</sup> , I. Muduru <sup>1</sup> , S.M. Dangoggo <sup>1</sup> , N.A. Garba <sup>2</sup> , L.G. Hassan <sup>1</sup> , <sup>1</sup> Usmanu Danfodiyo University, Nigeria, <sup>2</sup> Federal University Gusau, Nigeria
[P124]	<b>Pyrolytic lignin upgrading via ozonolysis</b> M.B. Figueirêdo* <sup>1</sup> , R.H. Venderbosch <sup>2</sup> , H.J. Heeres <sup>1</sup> , <sup>1</sup> University of Groningen, The Netherlands, <sup>2</sup> Biomass Technology Group, The Netherlands
[P125]	<b>Enhanced cobalt rejection by a low energy consumption macrofiltration membrane through Donnan exclusion</b> Y-L. Wu*, S. Xu, T.H. Wang, Y.K. Hsieh, C.F. Wang, National Tsing Hua University, Taiwan
[P126]	<b>High yield biodiesel production using modified red mud catalyst</b> A. Wahyudi* <sup>1,2</sup> , W. Kurniawan <sup>1</sup> , H. Hinode <sup>1</sup> , <sup>1</sup> Tokyo Institute of Technology, Japan, <sup>2</sup> Ministry of Energy and Mineral Resources, Indonesia
[P127]	<b>Quantification of surface state of hematite by using zn(ii) and cr(iii) as ion probes</b> C. Lin*, S. Xu, T.H. Wang, Y-K. Hsieh, C-F. Wang, National Tsing Hua University, Taiwan
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[P129]	<b>Replacing toxic solvent for filtration membrane fabrication</b> F. Prézélus*, L. Barna, C. Guigui, J-C. Remigy, Université de Toulouse, France
[P130]	<b>Enhanced microbial hydrocarbon biodegradation as stimulated during field-scale landfarming of crude oil-impacted soil</b> C.B. Chikere* <sup>1</sup> , M. Tekere <sup>2</sup> , R.A. Adeleke <sup>3</sup> , <sup>1</sup> University of Port Harcourt, Nigeria, <sup>2</sup> University of South Africa, South Africa, <sup>3</sup> Agricultural Research Council-Institute of Soil, Climate and Water, South Africa
[P131]	<b>A novel approach for virtual design of safer prospective materials and drugs</b> M.A. Grishina, V.A. Potemkin*, South Ural State University, Russia
[P132]	<b>Effects of medium ph in the fermentation of oil palm liquid extract for solvent production using clostridium acetobutylicum (atcc4259)</b> A. Abdul Aziz*, A.S. Aliyu, A. Yahaya, Z. Abdul Latiff, Universiti Teknologi Malaysia, Malaysia
[P133]	<b>Catalytic conversion of CO2 to formate mediated by an aliphatic Pd-PCP pincer complex</b> L. Federer*, C. Adlhart, C. Frech, Zurich University of Applied Sciences, Switzerland

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[P136]	<b>Natural polyelectrolytes from fresh and saline wastewaters</b> V.O. Ajao* <sup>1,2</sup> , H. Bruning <sup>2</sup> , H.H.M. Rijnaarts <sup>2</sup> , H. Temmink <sup>1,2</sup> , <sup>1</sup> Wetsus, <i>The Netherlands</i> , <sup>2</sup> Wageningen University, <i>The Netherlands</i>
[P137]	<b>Comparative study for the synthesis of biodiesel from the abundant animal (Chicken fat) and plant (Taramera: Eruca sativa, Sesame: sesame indicum) sources of Pakistan</b> S. Bibi <sup>1</sup> , A. Aziz* <sup>2</sup> , M.H. Bhatti <sup>1</sup> , K.S. Kim <sup>2,3</sup> , <sup>1</sup> Allama Iqbal Open University, <i>Pakistan</i> , <sup>2</sup> University of Science and Technology, <i>Republic of Korea</i> , <sup>3</sup> Korea Institute of Civil Engineering and Building Technology, <i>Republic of Korea</i>
[P138]	<b>Selective alkylation of m-cresol with isopropyl alcohol under solvent-free conditions</b> F. Teodorescu*, A. Enache, M. Sandulescu, <i>University of Bucharest, Romania</i>
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[P140]	<b>Synthesis and heme polymerization inhibition activity (hpia) assay of 1,3,6-trihydroxyxanthone as antimalarial compound</b> D. Fitriastuti* <sup>1</sup> , J. Jumina <sup>2</sup> , P. Priatmoko <sup>2</sup> , <sup>1</sup> Islamic University of Indonesia, <i>Indonesia</i> , <sup>2</sup> Universitas Gadjah Mada, <i>Indonesia</i>
[P141]	<b>Synthesis and characterization of biodegradable film chitosan and carboxymethyl chitosan to substitute silver wound healer plaster.</b> A. Setyawati* <sup>1</sup> , D. Pranowo <sup>2</sup> , I. Kartini <sup>2</sup> , L.J. Muiz <sup>3</sup> , S. Hasyati <sup>2</sup> , <sup>1</sup> Universitas Islam Indonesia, <i>Indonesia</i> , <sup>2</sup> Universitas Gadjah Mada, <i>Indonesia</i> , <sup>3</sup> Universitas Matha'ul Anwar, <i>Indonesia</i>
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[P144]	<b>Waste-derived carbons for nox removal</b> A.S. Al-Rahbi*, P.T. Williams, <i>University of Leeds, UK</i>
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[P146]	<b>Production of the total organic acids from potato peels by trichoderma reesei under solid state fermentation</b> R. El-Shishtawy*, S. Mohamed, A. Asiri, A. Gomaa, I. Ibrahim, H. Al-Talhi, <i>King Abdulaziz University, Saudi Arabia</i>
[P147]	<b>A new biorefinery approach: application of various sulfur-free delignification treatments to different types of lignocellulosic biomass in order to obtain high purity lignin</b> X. Erdocia, J. Fernández-Rodríguez*, P.L. de Hoyos, M. González-Alriols, J. Labidi, <i>University of the Basque Country (UPV/EHU), Spain</i>
[P148]	<b>Solvent free isomerization of 3-carene to 2-carene using Na/o-chlorotoluene catalyst in trans-isolimone production</b> T.S. Julianto*, J. Jumina, M. Mustofa, H. Sastrohamidjojo, <i>Gadjah Mada University, Indonesia</i>
[P149]	<b>Green synthesis of gold nanoparticles using paper beetle leaf extract and its electrochemical behavior on boron-doped diamond electrode</b> W.P. Wicaksono* <sup>1</sup> , A. Hamidah <sup>1</sup> , T.A. Ivandini <sup>2</sup> , <sup>1</sup> Universitas Islam, <i>Indonesia</i> , <sup>2</sup> Universitas Indonesia, <i>Indonesia</i>
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