

International Symposium on Homogeneous Catalysis, *ISHC-XVI*

Florence (Italy), July 6-11 2008



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# ISHC-XVI

Florence (Italy), July 6-11, 2008.

Scientific PROGRAM

| 06 July, 2008                           | 07 July, 2008    | 08 July, 2008                   | 09 July, 2008                    | 10 July, 2008                          | 11 July, 2008       |                                 |
|---|------------------|---------------------------------|----------------------------------|--|---------------------|---------------------------------|
| 6 pm-8 pm, Registration & welcome party | 8.30             | Opening & Authorities greetings |                                  |  |                     |                                 |
|   | 9.00             | <b>Session 1</b>                | <b>Session 5</b>                 | <b>Session 8</b>                       | <b>Session 10</b>   | <b>Session 13</b>               |
|   |                  | <i>Chairperson</i>              | <i>Chairperson</i>               | <i>Chairperson</i>                     | <i>Chairperson</i>  | <i>Chairperson</i>              |
|   |                  | I. Tritto                       | R. Jackson                       | G. Giambastiani                        | D. J. Cole-Hamilton | D. Vogt                         |
|   |                  | KL1 M. Brookhart                | KL3 M.T. Reetz                   | KL5 R.R. Schrock                       | KL6 T. Ikariya      | KL8 A. Togni                    |
|   | 9.40             | IL1 D. Milstein                 | IL5 G. Poli                      | IL8 J. Michl                           | IL11 C. Gennari     | IL15 M. Beller                  |
|   | 10.10            | OC1 J.G. de Vries               | OC8 S.P. Nolan                   | OC13 H. Grützmacher                    | OC16 G. Laurencyzy  | OC20 P. Kalck                   |
|   | 10.30            | Coffee break                    |                                  |  |                     |                                 |
|   | 11.00            | <b>Session 2</b>                | <b>Session 6</b>                 | <b>Session 9</b>                       | <b>Session 11</b>   | <b>Session 14</b>               |
|   |                  | <i>Chairperson</i>              | <i>Chairperson</i>               | <i>Chairperson</i>                     | <i>Chairperson</i>  | <i>Chairperson</i>              |
|   |                  | B. R. James                     | T. Sakakura                      | K. J. Cavell                           | A. Haynes           | M. Peruzzini                    |
|   |                  | IL2 M. Green                    | IL6 S. Gibson                    | IL9 I.P. Beletskaya                    | IL12 R.V. Chaudhari | IL16 B. Marciniac               |
|   | 11.30            | OC2 S. Gambarotta               | OC9 W.D. Jones                   | OC14 D.B.G. Williams                   | OC17 A. Trifonov    | OC21 F. De Sarlo                |
|   | 11.50            | OC3 P.J. Pérez                  | OC10 K. Osakada                  | OC15 L. Gonsalvi                       | OC18 M.C.W. Chan    | OC22 J.A. Casares               |
|   | 12.10            | Lunch Break                     |                                  | IL10 P.G. Jessop                       | Lunch Break         |                                 |
|   | 12.40            |                                 |                                  | Lunch Break                            |                     | Poster Awards & Closing Remarks |
|   | 14.00            | <b>Session 3</b>                | <b>Session 7</b>                 | Congress tours in Florence and Tuscany |                     |                                 |
|   |                  | <i>Chairperson</i>              | <i>Chairperson</i>               |  |                     |                                 |
|   |                  | D.G. Gusev                      | M. North                         |  |                     |                                 |
|   |                  | KL2 J.M. Basset                 | KL4 V. Busico                    |  |                     |                                 |
|   | 14.40            | IL3 J.N.H. Reek                 | IL7 J. Cámpora                   |  |                     |                                 |
|   | 15.10            | OC4 A. Caselli                  | OC11 A. Behr                     |  |                     |                                 |
|   | 15.30            | OC5 C.J. Elsevier               | OC12 A.M. Trzeciak               |  |                     |                                 |
|   | 15.50            | Coffee break                    |                                  |  |                     |                                 |
|   | 16.20            | <b>Session 4</b>                | Poster Session 1<br>EVEN NUMBERS |  |                     |                                 |
|   |                  | <i>Chairperson</i>              |                                  |  |                     |                                 |
|   | A. M. Romerosa   |                                 |                                  |  |                     |                                 |
|   | IL4 B. Chaudret  |                                 |                                  |  |                     |                                 |
| 16.50                                   | OC6 G. Britovsek |                                 |                                  |  |                     |                                 |
| 17.10                                   | OC7 H. Doucet    |                                 |                                  |  |                     |                                 |
|   |                  |                                 | <b>Session 12</b>                |  |                     |                                 |
|   |                  |                                 | <i>Chairperson</i>               |  |                     |                                 |
|   |                  |                                 | C. Claver                        |  |                     |                                 |
|   |                  |                                 | KL7 I.T. Horvath                 | 14.00                                  |                     |                                 |
|   |                  |                                 | IL13 A. Macchioni                | 14.40                                  |                     |                                 |
|   |                  |                                 | IL14 M. Tanaka                   | 15.10                                  |                     |                                 |
|   |                  |                                 | OC19 B.K. Muñoz                  | 15.40                                  |                     |                                 |
|   |                  |                                 | Coffee break                     |  | 16.00               |                                 |
|   |                  |                                 | Poster Session 2<br>ODD NUMBERS  |  |                     |                                 |
|   |                  |                                 |                                  |  |                     |                                 |
|   |                  |                                 | Banquet dinner                   |  | 20.00               |                                 |



## KEYNOTE LECTURES

|              |  |
|--------------|--|
| <b>KL 01</b> | CATALYTIC TRANSFORMATIONS BASED ON C-H AND SI-H BOND ACTIVATION REACTIONS BY LATE TRANSITION METALS        |
| <b>KL 02</b> | CATALYSIS BY DESIGN: A PREDICTIVE APPROACH OF HETEROGENEOUS CATALYSIS VIA SURFACE ORGANOMETALLIC CHEMISTRY |
| <b>KL 03</b> | COMBINATORIAL AND EVOLUTIONARY APPROACHES TO SELECTIVE HOMOGENEOUS CATALYSIS                               |
| <b>KL 04</b> | INNOVATION IN OLEFIN POLYMERIZATION CATALYSTS: TOWARDS AN INTEGRATED HTC/HTE APPROACH                      |
| <b>KL 05</b> | THOUSANDS OF CATALYSTS FOR OLEFIN METATHESIS: HIGH TURNOVER, VARIABILITY, AND ASYMMETRY AT THE METAL       |
| <b>KL 06</b> | STEREOSELECTIVE REDUCTIVE AND OXIDATIVE TRANSFORMATION WITH BIFUNCTIONAL MOLECULAR CATALYSTS               |
| <b>KL 07</b> | DESIGNING HOMOGENEOUS CATALYSTS FOR SUSTAINABLE BIOMASS CONVERSION   |
| <b>KL 08</b> | SOME NEW CHEMISTRY WITH OLD LIGANDS  |

## INVITED LECTURES

|              |  |
|--------------|--|
| <b>IL 01</b> | METAL-LIGAND COOPERATION IN NEW CATALYSIS AND BOND ACTIVATION BY PYRIDINE-BASED Pincer SYSTEMS   |
| <b>IL 02</b> | CATALYSIS BY STRONG ACIDS AND BASES  |
| <b>IL 03</b> | SUPRAMOLECULAR LIGANDS IN TRANSITION METAL CATALYSIS: TOOLS FOR CATALYST ENCAPSULATION, COMBINATORIAL CATALYSIS AND CATALYST RECYCLING |
| <b>IL 04</b> | SURFACE CHEMISTRY AND CATALYTIC POTENTIAL OF ORGANOMETALLIC NANOPARTICLES  |
| <b>IL 05</b> | NEW DEVELOPMENTS IN PALLADIUM-CATALYZED PROCESSES: FROM DOMINO SEQUENCES TO ENANTIOSELECTIVE CATALYSIS                                 |
| <b>IL 06</b> | THE ASYMMETRIC PAUSON-KHAND REACTION   |
| <b>IL 07</b> | GROUP 10 ETHYLENE POLYMERIZATION CATALYSTS WITH PYRIDINE-N-OXIDE BASED LIGANDS, CATIONIC ANALOGS OF GRUBBS SALICYLADIMINATE SYSTEM     |
| <b>IL 08</b> | CATALYSIS WITH NAKED $Li^+$ IN HYDROCARBONS AND SIMILAR SOLVENTS   |
| <b>IL 09</b> | NEW TRENDS IN HOMOGENEOUS CATALYSIS  |
| <b>IL 10</b> | CATALYSIS AND SEPARATIONS USING CARBON DIOXIDE   |
| <b>IL 11</b> | LIBRARIES OF MONODENTATE PHOSPHORUS LIGANDS FOR Rh-CATALYZED ASYMMETRIC REACTIONS  |
| <b>IL 12</b> | KINETIC MODELING OF Pd CATALYZED CARBONYLATION OF OLEFINS AND ALCOHOLS   |
| <b>IL 13</b> | NMR STUDIES ON THE SUPRAMOLECULAR STRUCTURE OF TRANSITION METAL CATALYSTS IN SOLUTION  |
| <b>IL 14</b> | ADDITION REACTIONS OF ACID CHLORIDES ACROSS ALKYNES  |
| <b>IL 15</b> | BIO-INSPIRED CATALYSIS – ON THE WAY TO MORE SUSTAINABLE CATALYSTS  |
| <b>IL 16</b> | CATALYTIC ACTIVATION OF CARBON-HYDROGEN AND HETEROATOM-HYDROGEN BONDS BY VINYLMETALLOID (Si, Ge, B) COMPOUNDS                          |
| <b>IL 17</b> | METAL CATALYZED OXIDATION OF ORGANIC COMPOUNDS WITH DIOXYGEN OR HYDROGEN PEROXIDE AS TERMINAL OXIDANT                                  |

## ORAL COMMUNICATIONS

|              |  |
|--------------|--|
| <b>OC 01</b> | DYNAMIC KINETIC RESOLUTION OF HALOALCOHOLS USING A HALOALCOHOL DEHALOGENASE ENZYME AND AN IRIDACYCLE CATALYST                      |
| <b>OC 02</b> | IN SEARCH FOR SINGLE-COMPONENT HOMOGENEOUS CATALYSTS FOR ETHYLENE OLIGO- AND POLYMERIZATION: THE ROLE OF THE METAL OXIDATION STATE |
| <b>OC 03</b> | EASY ALKANE CATALYTIC FUNCTIONALIZATION  |
| <b>OC 04</b> | ALLYLIC AMINATION AND AZIRIDINATION OF OLEFINS BY ARYL AZIDES CATALYZED BY $Co^{II}(TPP)$ : A SYNTHETIC AND MECHANISTIC STUDY      |
| <b>OC 05</b> | PALLADIUM-CATALYZED TRANSFER SEMI-HYDROGENATION OF ALKYNES   |
| <b>OC 06</b> | TOWARDS CATALYTIC ALKANE OXIDATION VIA $O_2$ INSERTION INTO PLATINUM METHYL BONDS  |
| <b>OC 07</b> | PALLADIUM CATALYSED ARYLATIONS OR ALKENYLATIONS OF HETEROMATICS VIA C-H BOND ACTIVATION  |

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|--------------|--|
| <b>OC 08</b> | THE ROLE OF N-HETEROCYCLIC CARBENE IN TRANSITION METAL MEDIATED CATALYSIS  |
| <b>OC 09</b> | ACTIVATION OF C-CN BONDS IN NITRILES USING NICKEL(0)   |
| <b>OC 10</b> | PALLADIUM-CATALYZED CYCLOPOLYMERIZATION OF FUNCTIONALIZED DIENES. NEW POLYMERS WITH CYCLIC MONOMER UNITS   |
| <b>OC 11</b> | HOMOGENEOUS CATALYSIS WITH RENEWABLE RESOURCES   |
| <b>OC 12</b> | PALLADIUM NANOCATALYSTS IN C-C BOND FORMING REACTIONS  |
| <b>OC 13</b> | RHODIUM AMIDO COMPLEXES WITH SAW-HORSE STRUCTURES AS HIGHLY EFFICIENT CATALYSTS  |
| <b>OC 14</b> | ALUMINIUM TRIFLATE-MEDIATED CATALYTIC TRANSFORMATIONS  |
| <b>OC 15</b> | HOW TO TEACH AN OLD DOG NEW TRICKS: THE RENAISSANCE OF THE WATER SOLUBLE PHOSPHINE PTA (1,3,5-TRIAZA-7-PHOSPHAADAMANTANE) AND ITS ANALOGUES                |
| <b>OC 16</b> | HOMOGENEOUS CATALYTIC FORMIC ACID DECOMPOSITION: HYDROGEN STORAGE - HIGH PRESSURE HYDROGEN GENERATION  |
| <b>OC 17</b> | ALKOXIDE AND BOROHYDRIDE COMPLEXES OF LANTHANIDES COORDINATED BY N,N-LIGANDS: SYNTHESIS, STRUCTURE AND USE IN RING-OPENING POLYMERIZATION OF CYCLIC ESTERS |
| <b>OC 18</b> | WEAK ATTRACTIVE LIGAND-POLYMER INTERACTIONS IN OLEFIN POLYMERIZATION CATALYSTS: SYNTHETIC MODELS AND DEVELOPMENTS  |
| <b>OC 19</b> | TOWARDS THE USE OF TRANSITION METALLOENZYMES IN CATALYTIC PROCESSES  |
| <b>OC 20</b> | CYCLOCARBONYLATION OF MONOTERPENES: CRITICAL SOLVENT EFFECT ON THE CHIRAL RECOGNITION OF A CATALYTIC SPECIES BY A CHIRAL SUBSTRATE                         |
| <b>OC 21</b> | ORGANIC AND COPPER(II) CATALYSIS IN THE CONDENSATION OF PRIMARY NITRO COMPOUNDS WITH DIPOLAROPHILES TO ISOXAZOLE DERIVATIVES                               |
| <b>OC 22</b> | PALLADIUM CATALYSED CROSS COUPLING REACTIONS: STUDY OF THE REVERSAL OF THE TRANSMETALATION STEP (RETROMETALATION).   |

## POSTER PRESENTATIONS (EVEN & ODD)

### EVEN (Poster session 1) - ODD (Poster session 2)

|              |   |
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| <b>P 001</b> | THE DISCOVERY AND DEVELOPMENT OF A NEW CLASS OF STEREOSPECIFIC POLYPROPYLENE POLYMERIZATION CATALYSTS USING HIGH-THROUGHPUT TECHNIQUES - AN ORGANIC CHEMIST PERSPECTIVE   |
| <b>P 002</b> | INTERGRATING HOMO AND BIOCATALYSIS: FROM ENANTIOSELECTIVE SYNTHESIS TO UTILIZING RENEWABLES   |
| <b>P 003</b> | MECHANISM BASED DEVELOPMENT OF VANADIUM(SALEN) COMPLEXES FOR ASYMMETRIC CYANOHYDRIN SYNTHESIS   |
| <b>P 004</b> | SYNTHESIS AND KINETIC STUDY OF METALLOCENE-CONTAINING, AS WELL AS FLUORINE-CONTAINING, RHODIUM(I) COMPLEXES   |
| <b>P 005</b> | METAL-MEDIATED TRIFLUOROMETHYLATION OF ORGANIC HALIDES  |
| <b>P 006</b> | NEW CHIRAL BINUCLEAR COMPLEXES AS PRECATALYSTS FOR THE ASYMMETRIC C-C AND C-N BOND FORMATION. UNUSUAL EFFECT ADDITIVES  |
| <b>P 007</b> | HOT STUFF! STRUCTURAL, OPTICAL AND THERMAL PROPERTIES OF A DSC INVESTIGATION OF METAL-CARBOXYLATES  |
| <b>P 008</b> | COMPLEX COMPOUNDS OF Re (V) WITH PHENANTHROLINE   |
| <b>P 009</b> | SYNCHRONICITY OF MONONUCLEAR AND DINUCLEAR EVENTS IN HETERO-BIMETALLIC CATALYTIC BINUCLEAR ELIMINATION. THE MECHANISTIC ORIGIN OF SYNERGISM IN THE HYDROFORMYLATION OF CYCLOPENTENE STARTING WITH RHODIUM AND RHENIUM PRECURSOR |
| <b>P 010</b> | SYNTHESIS, CHARACTERIZATION AND HYDROGENATION CATALYSIS WITH $\text{RuCl}_2(\text{DMSO})_2(\text{NC}_5\text{H}_4(\text{COONa}))_2$ IN BIPHASIC (ORGANIC/ IONIC LIQUID) SYSTEM   |
| <b>P 011</b> | DECOMPOSITION OF HEXACHLOROBENZENE OVER $\text{Al}_2\text{O}_3$ SUPPORTED METAL OXIDE CATALYSTS   |
| <b>P 012</b> | SUBSTRATE DIRECTED 1,3-ASYMMETRIC INDUCTION IN RHODIUM-CATALYZED HYDROFORMYLATION OF CHIRAL VINYL ETHERS: THE OUTSTANDING CASE OF (R)-1-PHENYL-2,2-DIMETHYLPROPYLENE ETHER  |
| <b>P 013</b> | Cu-NHC MEDIATES SELECTIVE CATALYTIC APPROACH TO $\beta$ -BORYL COMPOUNDS  |
| <b>P 014</b> | EFFICIENT C-O AND C-C BOND FORMATION CATALYZED BY $\text{Fe}(\text{OTf})_3$   |
| <b>P 015</b> | $\text{CO}_2$ CONVERSION TO ORGANIC CARBONATES  |
| <b>P 016</b> | EFFICIENT HYDROESTERIFICATION OF STYRENE CATALYZED BY PALLADIUM COMPLEXES   |
| <b>P 017</b> | REACTION OF CARBOXYLATION OF PROPARGYL ALCOHOL TO DIMETHYL ESTER OF ITACONIC ACID   |

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| P 018 | NEW OSCILLATING REACTIONS OF ALKYNES CARBONYLATION CATALYZED WITH Pd COMPLEXES  |
| P 019 | PALLADIUM CATALYSTS FOR ROOM TEMPERATURE ACTIVATION OF ARYL CHLORIDES   |
| P 020 | THEORETICAL STUDIES (DFT AND CAR-PARRINELLO) OF THE H <sub>2</sub> ACTIVATION IN A NEW MODEL COMPLEX OF [Ni-Fe]-HYDROGENASE   |
| P 021 | UNEXPECTED KINETIC BEHAVIOR OF Pd(OAc) <sub>2</sub> -HClO <sub>4</sub> -CH <sub>3</sub> CN-H <sub>2</sub> O-p-BENZOQUINONE SYSTEM IN THE CYCLOHEXENE OXIDATION REACTION   |
| P 022 | STILLE COUPLING OF METHYL-BROMOPROPENOATE UNDER MICROWAVE ACTIVATION: APPLICATION TO THE SYNTHESIS OF DELTA-AMINO ACIDS   |
| P 023 | ENZYME-LIKE CHEMOSELECTIVE o-ACYLATION OF AMINOALCOHOLS CATALYZED BY A ZINC CLUSTER   |
| P 024 | HYDROGENATION OF NITRILE BUTADIENE RUBBER LATEX USING RHODIUM SALTS   |
| P 025 | ENERGETIC SPAN MODEL FOR ASSESSMENT OF CATALYTIC CYCLES   |
| P 026 | ETHYLENE OLIGOMERIZATION CAPABILITY OF Ni(II) COMPLEXES CONTAINING MONOIMINOPYRIDINE-QUINOXALINYL EXTENDED LIGANDS  |
| P 027 | OLEFIN OLIGOMERIZATION USING PALLADIUM COMPLEXES  |
| P 028 | AUTOMATED SYNTHESIS & SCREENING OF SUPRAMOLECULAR CATALYSTS   |
| P 029 | ENANTIOSELECTIVE PHASE TRANSFER ALKYLATION USING CHIRAL ORTHOPALLADATED COMPLEX IN CHIRAL IONIC LIQUID  |
| P 030 | COPOLYMERIZATION OF ETHYLENE AND 7-METHYL-1,6-OCTADIENE WITH Cp <sub>2</sub> ZrCl <sub>2</sub> /MAO OR Me <sub>2</sub> Si[(Me <sub>4</sub> Cp)( <sup>ter</sup> BuN)]TiCl <sub>2</sub> /MAO CATALYTIC SYSTEMS: SYNTHESIS, CHARACTERIZATION AND FUNCTIONALIZATION |
| P 031 | CATALYTIC ENANTIOSELECTIVE CONJUGATE ADDITION TO 2-SUBSTITUTED CYCLIC ENONES: SYNTHESIS OF (-)-MORPHINE   |
| P 032 | INDUSTRIAL CONVERSION OF SO <sub>x</sub> USING NO <sub>2</sub> AS CATALYST IN A COMPACT REACTOR   |
| P 033 | CHIRAL CYCLOPENTADIENYL RUTHENIUM COMPLEXES WITH P,P-LIGANDS DERIVED FROM (R,R)-1,2-DIAMINOCYCLOHEXANE: SYNTHESIS AND APPLICATIONS AS SYMMETRIC CATALYSTS FOR DIELS-ALDER REACTIONS   |
| P 034 | BENZO-FUZED HETERO- AND CARBO-CYCLES: USE OF ISOMERIZATIONS AND RING CLOSING METATHESIS   |
| P 035 | CHIRAL DIENE AND MIXED P-/ALKENE LIGANDS FOR SUBSTRATE-SPECIFIC ASYMMETRIC CONJUGATE ACTIONS  |
| P 036 | SYNTHESIS, CHARACTERIZATION AND ETHYLENE INSERTION REACTIONS OF NHC-Pt(II) AND Pd(II) METALLACYCLOALKANES   |
| P 037 | Pd-CATALYZED OLEFIN INSERTION INTO UNREACTIVE TRANSITION METAL HYDROGEN BOND  |
| P 038 | MATPHOS: A VERSATILE AND HIGHLY EFFICIENT LIGAND FOR ASYMMETRIC HYDROGENATION REACTIONS   |
| P 039 | PALLADIUM-CATALYZED CARBONYLATIVE CYCLIZATION WITH MORITA-BAYLIS-HILLMAN ADDUCTS. A DIRECT APPROACH FOR THE SYNTHESIS OF 3-ALKENYL- AND 3-ALKYL PHTHALIDES  |
| P 040 | NEW FINE CHEMICALS CARDANOL-BASED OBTAINED BY USING METATHESIS REACTIONS  |
| P 041 | ASYMMETRIC AMINOCATALYSIS: NEW REACTIONS AND NEW DIRECTIONS   |
| P 042 | NOVEL TYPE OF TRIFUNCTIONAL CHIRAL N-HETEROCYCLIC CARBENE (NHC) PRECURSORS  |
| P 043 | CYCLOPALLADATED COMPLEXES AS CATALYST PRECURSORS IN ETHYLENE OLIGOMERIZATION REACTIONS  |
| P 044 | NAPHTHA HYDROFORMYLATION WITH Rh AND Mo COMPLEXES IN BIPHASIC ORGANIC/ WATER MEDIUM   |
| P 045 | NOVEL MULTIFUNCTIONAL ORGANIC BRONSTED ACIDS AS CATALYSTS FOR C-C BOND FORMATIONS   |
| P 046 | NOVEL CATALYTIC REACTION INVOLVING N-HETEROCYCLIC CARBENES (NHCS) AS INTERMEDIATES  |
| P 047 | CO- AND TERPOLYMERISATION OF CO-ETHENE AND PROPENE CATALYSED BY Pd(II) COMPLEXES CONTAINING A FLEXIDENTATE TETRAPHOSPHINE LIGAND  |
| P 048 | MODULATING RuN <sub>4</sub> P <sub>2</sub> -COMPLEXES RESULTING IN SOLUBILITY AND REACTIVITY IN WATER   |
| P 049 | THE APPLICATION OF NOVEL MULTINUCLEAR NICKEL CATALYSTS DERIVED FROM DENDRIMERIC LIGANDS IN THE OLIGOMERIZATION OF 1-PENTENE   |
| P 050 | SYNTHESIS OF α-CARBOLINE DERIVATIVES THROUGH A DOMINO AMINATION / C-H DIRECT ARYLATION STRATEGY   |

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| P 051 | CATALYTIC DESULFURIZATION OF DIBENZOTHIOPHENE AND ITS HINDERED ANALOGUES WITH GROUP 10 METALS IN HOMOGENEOUS, HETEROGENEOUS AND HETEROGENIZED MEDIA                                   |
| P 052 | METHYLTRIOXORHENIUM CATALYZED ONE-POT SYNTHESIS OF NITRONES   |
| P 053 | AROMATIC C-H BOND FUNCTIONALISATION WITH CHELATING NHC-Pd(II) CATALYSTS: THE FUJIWARA HYDROARYLATION OF ALKYNES   |
| P 054 | BIS(FLUOROUS-PONYTAILED) 2,2'-BIPYRIDINES AS LIGANDS FOR METHYLTRIOXORHENIUM (CH <sub>3</sub> ReO <sub>3</sub> , MTO)-CATALYZED EPOXIDATION OF OLEFINS WITH HYDROGEN PEROXIDE         |
| P 055 | ATOM ECONOMY FROM THE [Ru(p-CYMENE)Cl <sub>2</sub> ] <sub>2</sub> /AcOH CATALYTIC SYSTEM. SYNTHESIS OF LOW MOLECULAR WEIGHT $\pi$ -CONJUGATED POLYMERS WITH OPTOELECTRONIC PROPERTIES |
| P 056 | MILD CATALYTIC OXIDATION OF SECONDARY AND TERTIARY AMINES TO NITRONES AND N-OXIDES WITH H <sub>2</sub> O <sub>2</sub> MEDIATED BY Pt(II) CATALYSTS                                    |
| P 057 | ELUCIDATION OF THE REACTION MECHANISM FOR THE MOLECULAR OXYGEN INSERTION INTO Pd(II)-HYDRIDE BOND   |
| P 058 | C <sub>3</sub> -SYMMETRIC AMINE TRIPHENOLATE COMPLEXES AS OXIDATION CATALYSTS   |
| P 059 | EFFICIENT CATALYSTS DERIVED FROM TRANSITION METAL COMPLEXES WITH C4-BOUND HETEROCYCLIC CARBENES   |
| P 060 | IONIC LIQUID-TAGGED CATALYST FOR CARBON DIOXIDE FIXATION TO CYCLIC CARBONATES IN ROOM TEMPERATURE IONIC LIQUID  |
| P 061 | SUZUKI-COUPPLING IN W/O-MICROEMULSIONS: REACTION AND CATALYST RECYCLING   |
| P 062 | SELECTIVITY OF CYCLOMETALATED COMPOUNDS AS CATALYST PRECURSORS FOR THE REDUCTION OF C=X BONDS   |
| P 063 | IRON (III) POLYOXOMETALATES AS CATALYSTS IN THE OXIDATION OF ALKYLNAPHTHALENES WITH H <sub>2</sub> O <sub>2</sub>   |
| P 064 | DIMERISATION BEHAVIOUR OF Rh-CARBONYL COMPLEXES   |
| P 065 | SYNTHESIS AND REACTIVITY OF THE METHYLENE ARENIUM FORM OF A BENZYL CATION STABILIZED BY COMPLEXATION  |
| P 066 | GRAFTING OF NHC-Ni COMPLEXES ONTO SILICALITE/SiC FOAM FOR HETEROGENEOUS CATALYSIS OF CROSS COUPLING REACTIONS   |
| P 067 | CATALYTIC ACTIVITY OF THE WATER SOLUBLE RHODIUM COMPLEX HRh(CO)(TPPTS) <sub>3</sub> IN THE BIPHASIC HYDROFORMYLATION REACTION OF OLEFIN PRESENT IN A LIGHT NAPHTA CUT                 |
| P 068 | DESIGN OF A PILOT PLANT FOR THE BIPHASIC HYDROFORMYLATION PROCESS OF REAL NAFTA WITH THE AQUEOUS SOLUBLE COMPLEX HRh(CO)(TPPTS) <sub>3</sub>  |
| P 069 | LIQUID-PHASE ESTERIFICATION OF OLEIC ACID OVER HOMOGENEOUS AND HETEROGENEOUS CATALYSTS: EFFECT OF ALCOHOL NATURE  |
| P 070 | NEODYMIUM - MAGNESIUM TRANSMETALATION: THE FIRST EXAMPLE OF A POLYSTYRENE CATALYZED CHAIN GROWTH.   |
| P 071 | OXIDATIVE CLEAVAGE OF VIC-DIOLS CATALYZED BY MANGANESE(III) COMPLEXES IN IONIC LIQUIDS  |
| P 072 | KINETICS OF 1-OCTENE HYDROFORMYLATION USING IONIC LIQUID-ORGANIC BIPHASIC MEDIA AND RHODIUM/TPPTS COMPLEX CATALYST  |
| P 073 | A GREEN PROTOCOL FOR FIXATION OF CO <sub>2</sub> USING NEW IONIC LIQUID AS THE ROBUST AND RECYCLABLE ORGANOCATALYST AND REACTION MEDIUM   |
| P 074 | A NOVEL RUTHENIUM BINUCLEAR COMPLEX AS A HIGHLY REGIO- AND STEREO-SELECTIVE CATALYST IN ADDITION OF ACETIC ACID TO PHENYLACETYLENE  |
| P 075 | A NOVEL AND SIMPLE CATALYTIC SYSTEM FOR EFFECTIVE EPOXIDATION OF ALIPHATIC TERMINAL ALKENES USING COMMERCIAL MANGANESE SALTS AS THE CATALYST  |
| P 076 | HETEROAROMATIC CATIONS BY RING-CLOSING METATHESIS REACTIONS   |
| P 077 | SELECTIVE ONE-POT ACYLATIONS WITH NON-TRADITIONAL ACYLATION AGENTS  |
| P 078 | COPPER (I) CATALYZED 1,3 DIPOLAR AZIDE-ALKYNE CYCLOADDITION AS A RELIABLE SYNTHETIC TOOL IN MATERIALS CHEMISTRY   |
| P 079 | A NEW CHIRAL Pd(II) COMPLEX HAVING ALKOXY / AMIDATE / CARBENE TRIDENTATE LIGAND: CATALYTIC OXIDATIVE HECK-TYPE REACTION   |
| P 080 | NEW CATALYTIC SYSTEMS FOR THE SONOGASHIRA COUPLING OF ARYL HALIDES  |
| P 081 | PALLADIUM CLUSTERS AS CATALYSTS OF N <sub>2</sub> FORMATION IN REACTION OF LOW-TEMPERATURE NO DISPROPORTIONATION  |

|       |   |
|-------|---|
| P 082 | TACKLING A 30 YEAR OLD PROBLEM : FAST REACTIONS OF MEDIUM CHAIN-LENGTH ALKENES UNDER AQUEOUS BIPHASIC CONDITIONS WITH RAPID PHASE SEPARATION  |
| P 083 | NHCP-LIGANDS: SYNTHESIS OF CHIRAL N-PHOSPHINOMETHYL FUNCTIONALIZED N-HETEROCYCLIC CARBENES  |
| P 084 | CATALYTIC HYDROGENATIONS IN NONIONIC SURFACTANT SYSTEMS: A WAY OF RECYCLING THE CATALYST  |
| P 085 | GREEN PROCEDURE FOR ACETALIZATION CATALYZED BY TASK-SPECIFIC ROOM TEMPERATURE IONIC LIQUID  |
| P 086 | STRUCTURES AND PROPERTIES OF NON-CHELATED $d^0$ ALKYL ALKENE COMPLEXES OF THE TYPE $[\text{Cp}_2\text{ZrMe}(\text{ALKENE})]^+$ : AN ELUSIVE CLASS OF COMPLEXES HERETOFORE NOT CHARACTERIZED     |
| P 087 | COBALT CARBONYL IONIC LIQUIDS AS EFFECT CATALYSTS FOR ALKOXYCARBONYLATION UNDER LIGAND/PROMOTOR-FREE CONDITION  |
| P 088 | RUTHENIUM-CATALYZED SYNTHESIS OF SECONDARY AND TERTIARY AMINES FROM ALCOHOLS  |
| P 089 | APPLICATION OF ASYMMETRIC CATALYSIS AND DISCOVERY OF NEW CATALYSTS: A CASE STUDY IN HYDROGENATION EN ROUTE TO AN $\alpha_v\beta_3$ INTEGRIN ANTAGONIST  |
| P 090 | THE CARBONYLATIVE SUZUKI-MIYAJIMA COUPLING OF HETEROCYCLIC VINYL TRIFLATES: METHODOLOGY, SCOPE, AND APPLICATIONS  |
| P 091 | MODULAR PHOSPHITE-OXAZOLINE LIGAND LIBRARY FOR ASYMMETRIC Pd-CATALYZED ALLYLIC SUBSTITUTION REACTIONS   |
| P 092 | CHIRAL PYRANOSIDE PHOSPHITE-OXAZOLINES: A NEW CLASS OF LIGAND FOR ASYMMETRIC CATALYTIC HYDROGENATION OF ALKENES   |
| P 093 | MODIFICATION OF TALLOW BIODIESEL BY HOMOGENEOUS CATALYTIC AUTOXIDATION  |
| P 094 | IRON-CATALYZED MICHAEL REACTIONS - FROM EXPERIMENT TO THEORY AND BACK   |
| P 095 | BENZENE HYDROGENATION BY HYBRID SILICA-SUPPORTED Pd-Rh CATALYSTS MADE OF Pd NANOPARTICLES AND ELECTROSTATICALLY IMMOBILIZED Rh SINGLE SITES   |
| P 096 | IMINE-FUNCTIONALISED POLY(PROPYLENE IMINE) DENDRIMERS: SYNTHESIS, COMPLEXATION AND CATALYTIC PROPERTIES   |
| P 097 | ALUMINIUM(III) TRIFLUOROMETHANESULFONATE AS AN EFFICIENT CO-CATALYST IN CARBONYLATION CHEMISTRY   |
| P 098 | LEWIS - OR BRØNSTED ACID: WHICH IS THE CATALYST?  |
| P 099 | USE OF FUNCTIONALISED POLYDIMETHYLSILOXANE PYRIDINE LIGANDS IN CATALYSED MODEL OXIDATION REACTIONS: SOLVENT AND METAL EFFECTS   |
| P 100 | SYNTHESIS, CHARACTERIZATION AND OLEFIN HYDROFORMYLATION CATALYSIS WITH THE <i>mer</i> - $\text{Mo}(\text{CO})_3(\text{p-C}_5\text{H}_4\text{N-CN})_3$ COMPLEX                                   |
| P 101 | REUSABLE SCANDIUM/IONIC LIQUID CATALYST SYSTEM FOR SEQUENTIAL C-C AND C-O BOND FORMATIONS BETWEEN PHENOLS AND DIENES WITH ATOM ECONOMY  |
| P 102 | THE APPLICATION OF POLYCATIONIC PHOSPHINE LIGANDS IN HOMOGENEOUS CATALYSIS AND COORDINATION CHEMISTRY   |
| P 103 | ACTIVATION OF SMALL MOLECULES WITH RHODIUM P,C,P Pincer Complexes   |
| P 104 | Ru-Hbpp BASED WATER OXIDATION CATALYSTS ANCHORED INTO CONDUCTING SOLID SUPPORTS   |
| P 105 | RHODIUM CATALYZED ISOMERIZATION-HYDROFORMYLATION - EMPLOYING NOVEL CHELATING PHOSPHORAMIDATES   |
| P 106 | INDENYL IRIIDIUM(III) COMPLEXES BEARING THE WATER SOLUBLE PHOSPHINE PTA (PTA = 1,3,5-TRIAZA-7-PHOSPHAADAMANTANE)  |
| P 107 | THE SEARCH FOR COPPER(I) NITRENES AS REACTIVE INTERMEDIATES IN COPPER-CATALYZED AZIRIDINATION   |
| P 108 | ORGANONICKEL COMPLEXES AS KEY INTERMEDIATES IN NEW ELECTROCATALYTIC REACTIONS OF FLUOROALKYLATION   |
| P 109 | MODULAR APPROACH TOWARDS N-HETEROCYCLIC CARBENES ON DENDRITIC POLYGLYCEROL SUPPORT  |
| P 110 | Pd-CATALYSED HOMOGENEOUS DEHYDROGENATION REACTIONS  |
| P 111 | SYNTHESIS OF DIASTEREOMERICALLY ENRICHED ANALOGUES OF THE WATER SOLUBLE PHOSPHINE PTA AND USE IN CATALYTIC HYDROGENATIONS   |
| P 112 | TUNEABLE COORDINATION OF DEOXYCHOLIC ACID DERIVED TROPOS PHOSPHITES AS CHIRAL LIGANDS IN ASYMMETRIC Rh CATALYZED ADDITION OF PHENYLBORONIC ACID TO CYCLOHEXENONE: NEW INSIGHT INTO THE REACTION |



|       |   |
|-------|---|
| P 113 | PLATINUM GROUP METAL COMPLEXES WITH NOVEL RUTHENOCENE-BASED Pincer Ligands  |
| P 114 | CATALYTIC ACTIVITY OF NOVEL N,N',N''-TRISUBSTITUTED GUANIDINE DERIVATIVES   |
| P 115 | CHEMICAL AND EPR SPECTROSCOPIC EVIDENCE FOR THE FORMATION OF OXOIRON(V) ACTIVE INTERMEDIATES IN NON-HEME IRON-BASED SYSTEMS FOR SELECTIVE OXIDATION                         |
| P 116 | FIRST HETEROGENEOUSLY PALLADIUM-CATALYSED SYNTHESIS OF ANTIMICROBIAL 2-SUBSTITUTED-3-ARYL-INDOLES   |
| P 117 | EPR STUDY OF VANADIUM SPECIES FORMED UPON INTERACTION OF VANADIUM(V) AND VANADIUM(IV) PROCATALYSTS WITH $AlEt_3$ AND $AlEt_2Cl$   |
| P 118 | ONE-POT HETEROGENEOUS Pd-CATALYSED SYNTHESIS OF STILBENE DERIVATIVES  |
| P 119 | TRIFLUOROACETIC ACID: A MORE EFFECTIVE AND EFFICIENT CATALYST FOR THE ONE-POT SYNTHESIS OF TETRASUBSTITUTED IMIDAZOLES  |
| P 120 | (R)- AND (S)-(5-ISOPROPYL-1,5-DIMETHYL-4,5-DIHYDRO-1H-IMIDAZOL-4-ON-2-YL) PYRIDINES - LIGANDS FOR ALLYLIC OXIDATION   |
| P 121 | SYNTHESIS OF ENANTIOMERICALLY PURE $\alpha$ -AMINO ACIDS USING Ni(II) COMPLEXES OF SCHIFF BASES OF (S)-N-(2-BENZOYLPHENYL)-1-BENZYLPIRROLIDINE-2-CARBOXAMIDE                |
| P 122 | SYNTHESIS AND CHARACTERIZATION OF COPPER (I) COMPLEXES WITH NITROGEN DONOR MACROCYCLIC LIGANDS: THEIR USE AS HOMOGENEOUS CATALYSTS IN STEREOSELECTIVE SYNTHESSES            |
| P 123 | ENERGY & CHEMICALS FROM RENEWABLES BY ELECTROCATALYSIS  |
| P 124 | CONTROLLED RADICAL POLYMERIZATION MEDIATED BY 1,3-BIS(2-PYRIDYLIMINO)ISOINDOLATO COBALT COMPLEXES   |
| P 125 | COORDINATION COMPOUNDS BASED ON 1,2,3,4-TETRAHYDROISOQUINOLINE-3-CARBOXYLIC ACID  |
| P 126 | ANNULATION REACTIONS BASED ON C-H BOND ACTIVATION WITH A Rhenium CATALYST   |
| P 127 | CONFINEMENT EFFECT ON CATALYTIC HYDROGENATIONS USING RUTHENIUM NANOPARTICLES SUPPORTED ON MULTI-WALL CARBON NANOTUBES   |
| P 128 | METHYLENE AND CARBONYL LINKER (PYRAZOL-1-YL)BENZENE NICKEL AND PALLADIUM ETHYLENE OLIGOMERIZATION CATALYSTS: UNIQUE EXAMPLES OF ODD NUMBERED OLEFIN FORMATION FROM ETHYLENE |
| P 129 | HYDROAMINOMETHYLATION OF n-ALKENES IN A BIPHASIC IONIC LIQUID SYSTEM  |
| P 130 | MODIFIED OLIGONUCLEOTIDES AS LIGANDS FOR ASYMMETRIC CATALYTIC REACTIONS   |
| P 131 | SUPPORTED PALLADIUM MATERIALS: HIDDEN HOMOGENEOUS Pd-CATALYSTS FOR FINE CHEMICAL SYNTHESSES   |
| P 132 | METALLIC NANOPARTICLES STABILIZED BY FUNCTIONALIZED POLYMERS: EFFECT ON CATALYTIC HYDROGENATIONS  |
| P 133 | HETEROGENEOUSLY Pd-CATALYSED "ONE POT" SYNTHESIS OF BIBENZYL  |
| P 134 | THE ACTIVE SPECIES OF POLYMERIZATION CATALYSTS BASED ON TITANIUM AND ZIRCONIUM BIS(PHENOXYIMINE) COMPLEXES  |
| P 135 | SELECTIVE AEROBIC OXIDATION BY DIOXYGEN OF TERPENIC ALCOHOLS IN $Pd(OAc)_2$ /PYRIDINE/ $K_2CO_3$ CATALYTIC SYSTEM   |
| P 136 | NEW RUTHENIUM COMPLEXES AS CATALYST FOR SELECTIVE EPOXIDATION. STUDIES IN HOMOGENEOUS AND HETEROGENEOUS SYSTEMS AND ITS REACTION MECHANISMS                                 |
| P 137 | COBALT(I)-CATALYSED [4+2]- AND [4+2+2]- CYCLOADDITIONS  |
| P 138 | IMPROVEMENTS IN COBALT(I) CATALYSIS OF [4+2] AND [2+2+2] CYCLOADDITIONS   |
| P 139 | ASYMMETRIC HYDROGENATION OF KETONES CATALYZED BY IRIIDIUM COMPLEXES OF FERROCENYL P,S LIGANDS   |
| P 140 | NEW PERFLUORINATED 2,2'-BIPYRIDINE LIGAND USED FOR CO/TERT-BUTYLSTYRENE COPOLYMERIZATION IN SUPERCRITICAL CARBON DIOXIDE  |
| P 141 | PHOSPHOTUNGSTIC ACID AS A VERSATILE CATALYST FOR THE SYNTHESIS OF FRAGRANCE COMPOUNDS VIA $\alpha$ -PINENE OXIDE ISOMERISATION: A SOLVENT-INDUCED CHEMOSELECTIVITY          |
| P 142 | AEROBIC Pd(II)/Cu(II) CATALYZED OXIDATION OF LINALOOL UNDER CHLORIDE-FREE NON-ACIDIC CONDITIONS   |
| P 143 | RHODIUM-CATALYZED HYDROFORMYLATION OF CONJUGATED DIENES: UNUSUAL ACCELERATING EFFECTS OF PHOSPHORUS LIGANDS AND GAS PRESSURE  |
| P 144 | IRON-CATALYZED SYNTHESIS OF TETRAHYDROFURANES AND TETRAHYDROPYRANES   |
| P 145 | RHODIUM-COMPLEX CATALYZED CO-RETNETIVE ADDITION REACTIONS OF $\alpha$ -KETO ACID CHLORIDES TOWARD FOR TERMINAL ALKYNES  |



|       |  |
|-------|--|
| P 146 | A NOVEL ONE POT CATALYZED SYNTHESIS OF POTENTIAL ANTI-TUMOUR METHY-2,4-DIMETHOXYALICYCLATE AND OTHER NEW DERIVATIVES OF SALICYLIC ACID   |
| P 147 | BENZIMIDAZOLE-SUPPORTING N-HETEROCYCLIC CARBENE COMPLEXES OF Pd(II) AND Ag(I): FORMATION AND CATALYTIC APPLICATION   |
| P 148 | SYNTHESIS OF O-HETEROCYCLIC COMPOUNDS VIA ENE-YNE METATHESIS AND PAUSON-KHAND REACTIONS  |
| P 149 | POLYHEDRAL OLIGOMERIC SILSESQUIOXANE (POSS) CORED DENDRIMERS IN ETHENE METHOXYCARBONYLATION AND ASYMMETRIC HYDROFORMYLATION  |
| P 150 | ORTHO -AMINOARENETHIOLATO-COPPER(I) CATALYZED N-ARYLATION WITH ARYL BROMIDES: A MECHANISTIC INSIGHT  |
| P 151 | PALLADIUM-CATALYZED ADDITION-CYCLIZATION REACTION OF DIPHENYLPHOSPHINE OXIDE WITH DIYNES IN THE PRESENCE OF PHOSPHINIC ACID  |
| P 152 | THE MECHANISM OF OXIDATION WITH HYDROGEN PEROXIDE CATALYZED BY VANADATE OR VANADATRANE AND PCA   |
| P 153 | ACTIVATION OF C <sub>5</sub> -SYMMETRIC HAFNOCENES WITH MAO: BEWARE OF "FREE" TRIMETHYLALUMINUM !  |
| P 154 | HYDROGEN PEROXIDE OXIDATION OF ALKANES TO ALKYL HYDROPEROXIDES CATALYZED BY COPPER COMPLEXES   |
| P 155 | SYNTHESIS OF N-HETEROCYCLIC COMPOUNDS VIA RCM, ENE-YNE METATHESIS AND CROSS-COUPPLING REACTIONS  |
| P 156 | SYNTHESIS OF MIXED DONOR SCORPIONATE LIGANDS   |
| P 157 | METHYLTRIOXORHENIUM CATALYZED OXIDATIONS OF NITROGEN AND OXYGEN CONTAINING COMPOUNDS   |
| P 158 | ETHYLENE TETRAMERIZATION: STRUCTURAL INVESTIGATION OF THE CHROMIUM-BASED CATALYST PRECURSORS.  |
| P 159 | HIGHLY REGIOSELECTIVE IRIIDIUM-CATALYZED OXIDATION OF ALCOHOLS   |
| P 160 | SCREENING OF P,N-BIDENTATE PHOSPHITE LIGANDS IN Pd-CALATYZED ASYMETRIC ALLYLIC SUBSTITUTION  |
| P 161 | FIRST CHIRAL PHOSPHOROAMIDITE-PHOSPHITE LIGANDS FOR HIGHLY ENANTIOSELECTIVE AND VERSATILE Pd-CATALYZED ASYMMETRIC ALLYLIC SUBSTITUTION REACTIONS   |
| P 162 | LOW TEMPERATURE WATER-GAS SHIFT REACTION WITH SUPPORTED IONIC LIQUID PHASE (SILP) CATALYSTS  |
| P 163 | A HIGHLY EFFICIENT AND ENVIROMETALLY FRIENDLY PROTOCOL FOR THE SYNTHESIS OF METHYLTRIOXORHENIUM (MTO)  |
| P 164 | A NEW AND GENERAL SYNTHESIS OF ENANTIOPURE <i>N</i> -FUNCTIONALISED 1,4-AMINOALCOHOLS AS LIGANDS IN ASYMMETRIC SYNTHESIS   |
| P 165 | IRON-CATALYSED ARYLATION AND HYDROALKOXYLATION OF ALKYNES  |
| P 166 | IRON-CATALYZED ARYLATION REACTIONS   |
| P 167 | EFFICIENT SYNTHESIS AND HERBICIDAL ACTIVITY OF NEW THIAZOLE BASED TRIKETONE ANALOGUES  |
| P 168 | TRANSFORMATIONS OF BRIDGING VINYLIMINIUM DIIRON COMPLEXES: UNCONVENTIONAL ROUTES TO NEW FUNCTIONALIZED BRIDGING LIGANDS  |
| P 169 | PALLADIUM NANOPARTICLES IN IONIC LIQUIDS: EVIDENCES FOR "DUAL" CATALYTIC BEHAVIOUR   |
| P 170 | INFLUENCE OF THE ADDITION OF THIOPHENES ON THE CATALYTIC ACTIVITY OF THE RHODIUM BINUCLEAR COMPLEX [Rh(CO)(μ-Pz)(TPPTS)] <sub>2</sub> DURING THE BIPHASIC HYDROFORMYLATION OF 1-HEXENE.        |
| P 171 | RHODIUM CATALYZED HYDROFORMYLATION OF LINALOOL   |
| P 172 | DISCRIMINATING BETWEEN <i>NORMAL</i> , <i>ABNORMAL</i> AND <i>REMOTE</i> N <sup>1</sup> HC <sup>6</sup> COMPLEXES  |
| P 173 | ASYMMETRIC AMINOCATALYSIS WITH CYCLIC DIAMINES   |
| P 174 | THE CATALYTIC ACTIVITY OF NOVEL Co(II) AND Pd(II)-PERFLUOROALKYLPHTHALOCYANINE IN FLUOROUS BIPHASIC SYSTEM; BENZYL ALCOHOL OXIDATION AND FIRST TIME HYDROGENATION OF OLEFINS BY PHTHALOCYANINE |
| P 175 | NEW FUNCTIONALIZED VINYL MONOMERS BY Co(II) CATALYZED ETHYLENE-(FUNCTIONALIZED)NORBORNENE HETERO-TRIMERIZATION REACTION  |
| P 176 | NEW EFFICIENT RUTHENIUM COMPLEXES FOR THE CATALYTIC MURAI REACTION   |
| P 177 | EVALUATION OF THE HETEROGENIZATION OF HYDROSILYLATION REACTION   |

|              |   |
|--------------|---|
| <b>P 178</b> | NEW APPROACHES TO OXYGENATED PRODUCTS VIA CROSS-METATHESIS OF MALEATES AND OLEFINS  |
| <b>P 179</b> | PICRIC ACID AS A NEW, HIGHLY EFFICIENT AND MILD CATALYST FOR THE SYNTHESIS OF BIS(INDOLYLMETHANES) IN AQUEOUS MEDIA   |
| <b>P 180</b> | CATALYSIS IN PROPYLENE CARBONATE - DOUBLE BENEFIT TO SUSTAINABILITY   |
| <b>P 181</b> | ORGANIC CARBONATES AS ALTERNATIVE SOLVENTS  |
| <b>P 182</b> | HIGHLY VARIABLE REMOTE N-HETEROCYCLIC CARBENES: PYRIDYLIDENES IN CROSS-COUPLING REACTIONS.  |
| <b>P 183</b> | SYNTHESIS AND EVALUATION OF NOVEL RUTHENIUM COMPLEXES FOR ASYMMETRIC EPOXIDATION OF OLEFINS   |
| <b>P 184</b> | GROUP 4 AND 6 OLEFIN ISOMERISATION CATALYSTS  |
| <b>P 185</b> | TOWARDS AN UNDERSTANDING OF THE ENANTIOWITCHABILITY IN THE Rh-CATALYZED ATH-REACTION  |
| <b>P 186</b> | HEMISPHERICAL CHELATORS BASED ON A CALIX[4]ARENE PLATFORM. NEW, HIGHLY REGIOSELECTIVE HYDROFORMYLATION CATALYSTS.   |
| <b>P 187</b> | SUZUKI COUPLING CATALYZED BY PALLADIUM COMPLEXES OF FERROCENE -BASED N-HETEROCYCLIC CARBENES  |
| <b>P 188</b> | ZINC-CATALYZED AND -MEDIATED SYNTHESIS OF AMINES AND N-HETEROCYCLES VIA HYDROAMINATION OF ALKYNES   |
| <b>P 189</b> | SYNTHESIS OF CHIRAL $\beta$ -AMINOPHOSPHONATES VIA RHODIUM-CATALYZED ASYMMETRIC HYDROGENATION   |
| <b>P 190</b> | SYNTHESIS OF CHIRAL C <sub>4</sub> -BUILDING BLOCKS BY RHODIUM-CATALYZED ENANTIOSELECTIVE HYDROGENATION OF ALKYL 2-HYDROXYMETHYL-ACRYLATES  |
| <b>P 191</b> | INDOLPHOS Rh-CATALYZED ASYMMETRIC HYDROGENATION: SUBSTRATE SCOPE AND MECHANISTIC ASPECTS  |
| <b>P 192</b> | MONODENTATE BINAPHTHOPHOSPHINES IN ASYMMETRIC HYDROFORMYLATION  |
| <b>P 193</b> | NOVEL ENANTIOSELECTIVE REACTIONS CATALYZED BY PALLADIUM(II)-SPIRO BIS(ISOXAZOLINE) COMPLEX  |
| <b>P 194</b> | FIRST EXAMPLE OF HETEROHELICENES AS CHIRAL PHOSPHANE LIGANDS FOR ASYMMETRIC CATALYSIS   |
| <b>P 195</b> | MECHANISTIC ASPECTS OF ELECTROPHILIC FLUORINATION MEDIATED BY TITANIUM TADDOLATE COMPLEXES  |
| <b>P 196</b> | USING NON-COVALENT INTERACTIONS TO CONTROL SELECTIVITY IN ASYMMETRIC CATALYSIS  |
| <b>P 197</b> | REVERSIBLE CARBOXYLATION OF NICKEL AND PALLADIUM MONONUCLEAR HYDROXO AND ALKOXO COMPLEXES   |
| <b>P 198</b> | LEWIS ACID ACTIVATED OSMIUM CATALYZED OXIDATION OF ALCOHOLS BY HYDROGEN PEROXIDE  |
| <b>P 199</b> | C <sub>2</sub> AND C <sub>5</sub> PARAMAGNETIC IRON(II) 2,6-BIS( <i>N</i> -ARYLIMINO) PYRIDINE COMPLEXES AND THEIR BEHAVIOUR AS CATALYSTS IN $\alpha$ -OLEFIN POLYMERIZATION  |
| <b>P 200</b> | TOWARDS ARTIFICIAL PHOTOSYNTHESIS: A NOVEL RUTHENIUM POLYOXOTUNGSTATE THAT CATALYZES WATER OXIDATION TO O <sub>2</sub>  |
| <b>P 201</b> | ENANTIOSELECTIVE REACTIONS OF CARBENE INSERTION IN C-H BONDS WITH HOMOGENEOUS AND SUPPORTED COPPER COMPLEXES  |
| <b>P 202</b> | SYNTHESIS, CHARACTERIZATION AND HECK REACTION APPLICATION OF NEW PALLADIUM(II) COMPLEXES: Pd( $\eta^2$ -Ph <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub> ) <sub>2</sub> AND Pd( $\eta^1$ -Ph <sub>2</sub> PCH <sub>2</sub> CH <sub>2</sub> OCH <sub>3</sub> ) <sub>2</sub> DIAMINE |
| <b>P 203</b> | SYNTHESIS OF PHOSPHOROUS BASED LIGANDS FOR THE DEVELOPMENT OF TRANSITION METALLOENZYMES   |
| <b>P 204</b> | SYNTHESIS OF NEW BULKY CHIRAL MONOPHOSPHITE LIGANDS: THEIR EVALUATION ON ASYMMETRIC HYDROFORMYLATION OF SUBSTRATES WITH POTENTIAL BIOLOGICAL ACTIVITY   |
| <b>P 205</b> | NICKEL COMPLEXES OF AN NN <sub>2</sub> PINCER LIGAND FOR CATALYTIC CARBON-CARBON BOND FORMATION   |
| <b>P 206</b> | TANDEM ACTION OF EARLY-LATE TRANSITION METAL COMPLEXES FOR THE LLPE SURFACE COATING OF MWCNTs   |
| <b>P 207</b> | DISSOCIATION AND ION-PAIR FORMATION IN IONIC LIQUID SOLUTIONS, THE INFLUENCE ON ASYMMETRIC HYDROGENATION  |
| <b>P 208</b> | HYDROGEN AND Si-H BOND ACTIVATION BY HIGH-VALENT OXO AND IMIDO COMPLEXES OF VANADIUM, MOLYBDENUM AND RHENIUM  |

|       |  |
|-------|--|
| P 209 | FREE-RADICAL SYNTHESIS OF $\alpha,\beta$ -AMINO ALCOHOLS PROMOTED BY AQUEOUS $TiCl_3$  |
| P 210 | CATALYTIC FUNCTIONALISATION OF ELEMENTAL PHOSPHORUS AND SULFUR   |
| P 211 | RATIONALIZATION OF THE RECENTLY OBSERVED FACILE NUCLEOPHILIC ATTACK BY WATER ON A ( $\eta$ -ALLYL)PALLADIUM INTERMEDIATE                                     |
| P 212 | THE CATALYTIC OXIDATION OF CYCLOHEXENE USING METALLODENDRIMERS DERIVED FROM PHERIPERAL FUNCTIONALISED SALICYLALDIMINE POLY(PROPYLENEIMINE) DENDRIMERS.       |
| P 213 | AN NMR METHOD FOR THE STUDY OF FAST GAS-LIQUID "HOMOGENEOUSLY" CATALYSED REACTIONS   |
| P 214 | APPLICATION OF HOMOBIMETALLIC RUTHENIUM-ARENE COMPLEXES BEARING VINYLIDENE LIGANDS IN ATOM TRANSFER RADICAL REACTIONS  |
| P 215 | THE SYNTHESIS, STRUCTURE AND AEROBIC OXIDATION CATALYSIS OF SALICYLALDIMINATO COMPLEXES  |
| P 216 | HIGHLY ACTIVE (PYRAZOL-1-YLMETHYL)PYRIDINE NICKEL $\alpha$ -OLEFIN OLIGOMERIZATION CATALYSTS.  |
| P 217 | MVS-DERIVED PALLADIUM NANOPARTICLES DEPOSITED ON POLYMERS AS RECYCLABLE CATALYSTS FOR HECK REACTIONS   |
| P 218 | A COMPARATIVE KINETIC AND MECHANISTIC STUDY OF THE HYDROFORMYLATION OF 1-HEXENE CATALYZED BY RHODIUM SYSTEMS CONTAINING EITHER BI- OR TRIDENTATED PHOSPHINES |
| P 219 | THE WAYS OF HOMOGENEOUS OR HETEROGENEOUS ELECTRON TRANSFER ON WHITE PHOSPHORUS   |
| P 220 | REACTIONS OF ETHOXYCARBONYLCARBENE-BRIDGED DICOBALT CARBONYL TRIPHENYLPHOSPHANE COMPLEXES  |
| P 221 | REACTION OF $^{13}CO$ WITH ETHOXYCARBONYLCARBENE-BRIDGED DICOBALT CARBONYL COMPLEXES   |
| P 222 | COMPETITIVE C-I VS C-CN REDUCTIVE ELIMINATION FROM A [(PNP)Rh(CH <sub>3</sub> )(CN)] <sup>+</sup> COMPLEX. SELECTIVITY IS CONTROLLED BY THE SOLVENT.         |
| P 223 | $\beta$ -D-GLUCOPYRANOSYL-MODIFIED THIOSEMICARBAZONES AS HYBRID LIGANDS FOR ASYMMETRIC PALLADIUM-CATALYZED ALLYLIC SUBSTITUTIONS                             |
| P 224 | NEW PORPHYRINS AS LIGANDS IN TRANSITION-METAL HOMOGENEOUS CATALYSIS, IN PARTICULAR IN WATER  |
| P 225 | FLUOROUS BIPHASIC CATALYSIS: FLUOROALKYLTHIOETHER-ARYLPHOSPHINES IN RHODIUM CATALYZED HYDROFORMYLATION OF 1-OCTENE.  |
| P 226 | SILVER-CATALYZED ALKANE AMIDATION  |
| P 227 | A VERY ACTIVE PREFLUORO-Tp <sup>F</sup> Ag CATALYST FOR ALKANE FUNCTIONALIZATION   |
| P 228 | ENANTIOSELECTIVE SYNTHESIS BY THERMOSTABLE NADH-DEPENDENT DEHYDROGENASE/REDUCTASE FROM <i>THERMUS THERMOPHILUS</i>   |
| P 229 | HYDROGEN PEROXIDE OXIDATION OF BENZENE CATALYZED BY RHODIUM CARBONYL CLUSTER Rh <sub>8</sub> (CO) <sub>16</sub>  |
| P 230 | STERIC VS. ELECTRONIC: SPATIAL VARIATION OF LIGANDS AFFECTING RHODIUM CATALYTIC REACTIONS  |
| P 231 | OXIDATION OF HYDROCARBONS WITH H <sub>2</sub> O <sub>2</sub> CATALYZED BY SOLID AND SOLUBLE ALUMINUM-CONTAINING COMPOUNDS                                    |
| P 232 | PALLADIUM-CATALYZED ENANTIOSELECTIVE ALLYLIC PHOSPHINATION   |
| P 233 | POTASSIUM AND SILVER CHIRAL COBALTATE(III) COMPLEXES AS PRECATALYSTS FOR ASYMMETRIC C-C BOND FORMATION   |
| P 234 | ABNORMAL NHC COMPLEXES OF RHODIUM: SYNTHESIS AND CATALYTIC ACTIVITY IN TRANSFER HYDROGENATION  |
| P 235 | RHODIUM AND IRIIDIUM PHOSPHORAMIDITE COMPLEXES AS CYCLOPROPANATION CATALYSTS   |
| P 236 | PALLADIUM-CATALYZED AMINATION OF THE 4-DEAZAANALOGUE DERIVATIVE OF ANTIBIOTIC FERVENULIN   |
| P 237 | GOLD(I) CATALYZED ADDITION OF AMINES AND ALCOHOLS TO ALQUENES: MECHANISTIC IMPLICATIONS  |
| P 238 | DINUCLER Ru COMPLEXES AS OXIDATIVE CATALYST FOR THE OXIDATION OF H <sub>2</sub> O TO O <sub>2</sub>  |
| P 239 | SELECTIVE CATALYTIC HYDROCARBOXYLATION OF ALLYL CYANIDE WITH MONODENTATE AND BIDENTATE SYSTEMS. DETERMINATION AND ANALYSIS OF DEUTERATION PATTERNS.          |
| P 240 | LIPIDIC AMINO ACIDS: SEQUENTIAL HYDROFORMYLATION - STRECKER REACTION   |

|       |  |
|-------|--|
| P 241 | PALLADIUM CATALYZED METHOXYCARBONYLATION: IMPROVING THE REGIOSELECTIVITY AND THE RECOVERY OF THE CATALYST  |
| P 242 | AMINES WITH POTENTIAL BIOACTIVITY PRODUCED DIRECTLY FROM MONOTERPENES THROUGH HYDROAMINOMETHYLATION  |
| P 243 | RHODIUM(I) COMPLEXES BASED ON A HIGHLY ELECTRON ACCEPTING PCP-TYPE Pincer Ligand: COORDINATION CHEMISTRY AND REACTIVITY                                |
| P 244 | CYCLOISOMERIZATION REACTIONS OF ENYNS DERIVED FROM PERILLYL ALCOHOL, ISOPULEGOL, GERANIOL AND LINALOOL CATALYSED BY Pt, Rh AND Au                      |
| P 245 | ZIRCONOCEN/MAO OLEFIN POLYMERIZATION, INVESTIGATION OF THE RATE CONSTANTS THROUGH OLIGOMER DISTRIBUTION IN ESI-MS                                      |
| P 246 | ENANTIOMERICALLY PURE DIPHOSPHINE SULFIDES DERIVED FROM 2,2'-BIPHOSPHOLE AS A NEW CLASS OF S,S,LIGANDS.  |
| P 247 | IONIC $\pi$ -ACIDIC ALKENE-LIGANDS IN Pd(0) CATALYSED CROSS-COUPPLINGS   |
| P 248 | NEW MODULAR P-O-P LIGANDS FOR ASYMMETRIC CATALYSIS   |
| P 249 | CHEMIO- AND STEREOSELECTIVE Pd-CATALYSED METHOXYCARBONYLATION OF NORBORNENE USING MONODENTATE AND BIDENTATE PHOSPHINE LIGANDS                          |
| P 250 | ORGANOCATALYSIS OF THE CARBONYL ENE REACTION   |
| P 251 | Rh-PHOSPHINE-PHOSPHONATE COMPLEXES: SYNTHESIS, IMMOBILIZATION AND APPLICATION IN ALKYNE HYDROGENATIO   |
| P 252 | ASSISTED CATALYSIS: A NEW PARADIGM IN METAL CATALYZED HYDROBORATIONS   |
| P 253 | CHIRAL C <sub>2</sub> -SYMMETRY DIPHOSPHITE LIGANDS FOR THE STABILIZATION OF Pd NANOPARTICLES. APPLICATIONS IN ENANTIOSELECTIVE ALLYLIC SUBSTITUTION   |
| P 254 | PHOSPHINO-IMIDAZOLINE MODIFIED LIGANDS. SYNTHESIS AND APPLICATION IN IRIIDIUM CATALYSED HYDROGENATION REACTIONS.                                       |
| P 255 | TANDEM CATALYSIS WITH HETERO-BIMETALLIC COMPLEXES WITH TRIAZOLYL-DI-YLIDENE LIGANDS  |
| P 256 | AN UNUSUAL EXAMPLE OF BASE-FREE CATALYSED REDUCTION OF C=O AND C=NR BONDS BY TRANSFER HYDROGENATION AND SOME USEFUL IMPLICATIONS                       |
| P 257 | TRIAZOLATO RUTHENIUM COMPLEXES FROM METAL AZIDE ALKYNE CYCLOADDITIONS  |
| P 258 | TUNABLE PHOSPHINES   |
| P 259 | HYDROFORMYLATION OF OLEFINS WITH COBALT CATALYST IN IONIC LIQUIDS: NEW CONCEPT FOR CATALYST RECYCLING  |
| P 260 | PHOTOCHEMICAL BEHAVIOR OF RUTHENIUM COMPLEXES CONTAINING PTA AND METHYLATED PTA DERIVATIVES (PTA=1,3,5-TRIAZA-7-PHOSPHATRICYCLE[3.3.1.13,7]DECANE).    |
| P 261 | SELF-SUPPORTED ENANTIOSELECTIVE CATALYSTS BASED ON NEW AZA-BISOXAZOLINE LIGANDS  |
| P 262 | NICKEL (II) PHTHALOCYANINE AS EFFICIENT CATALYST FOR THE C-S CROSS COUPLING REACTIONS OF DISULFIDES WITH IODOBENZENE                                   |
| P 263 | ELECTROCHEMICAL POLYMERIZATION OF THIOPHENE-SALEN COMPLEXES : EASY ACCESS TO EFFICIENT RECYCLABLE CHIRAL CATALYSTS                                     |
| P 264 | CHEMOSELECTIVE SYNTHESIS OF AMINES BASED ON HYDROGENATION OF NITRILES AND DIRECT REDUCTIVE AMINATION OF ALDEHYDES CATALYZED BY WATER-SOLUBLE CATALYSTS |
| P 265 | C-C BOND COUPLING ON VINYL ESTERS CATALYZED BY M(acac) <sub>2</sub> (M = Ni, Co) PRECURSORS  |
| P 266 | PROCESS INTENSIFICATION. TWO-PHASE CATALYTIC REACTIONS IN A TABLE-TOP CENTRIFUGAL CONTACT SEPARATOR.   |
| P 267 | FUNCTIONALYZED METHYLATED XANTHINES AND Pd(OAc) <sub>2</sub> FOR CATALYTIC HECK CROSS-COUPPLING REACTIONS  |
| P 268 | INCONVENIENT C-H ACTIVATION IN CATALYTIC HYDROGENATION OF IMINES AND ALDEHYDES USING Rh AND Ir PRECURSORS.   |
| P 269 | NOVEL PHOSPHORUS-NITROGEN LIGANDS FOR HOMOGENEOUS CATALYSTS  |
| P 270 | NEW PLATINUM(II) AND PLATINUM(0) COMPLEXES OF BULKY IMINOPHOSPHINE LIGANDS   |
| P 271 | STRUCTURES AND REACTIONS OF NEW OSMIUM POLYHYDRIDE COMPLEXES   |
| P 272 | ELECTRON WITHDRAWING PCP Pincer Ligands for C-H Activation   |
| P 273 | NOVEL Si,P HYBRID LIGANDS  |
| P 274 | ALKENE AND DIENE COMPLEXES WITH [(C <sub>5</sub> Me <sub>4</sub> C <sub>n</sub> F <sub>2n+1</sub> )Rh] FRAGMENT FOR FLUOROUS BIPHASE CATALYSIS         |
| P 275 | UV/VIS SPECTROSCOPICAL INVESTIGATIONS IN HOMOGENEOUS CATALYSIS   |

|       |   |
|-------|---|
| P 276 | SOLVENT-FREE ALCOHOL OXIDATION IN THE BALL-MILL   |
| P 277 | SOLVATE COMPLEXES AND THEIR ROLE IN HOMOGENEOUS CATALYSIS   |
| P 278 | NEW LIGHT ON INTRIGUING PHOSPHORUS LIGANDS: DESIGN, SYNTHESIS AND APPLICATION OF FUNCTIONALIZED PHOSPHABENZENES   |
| P 279 | BIMETALLIC CATALYSTS IN METHANOL CARBONYLATION  |
| P 280 | HIGHLY SELECTIVE HYDROCYANATION OF BUTADIENE TOWARD 3-PENTENENITRILE  |
| P 281 | HOMOGENEOUS CARBONYLATION OF ETHYLENE BY PALLADIUM COMPLEXES: PROPIONIC ACID AND COPOLYMERS SYNTHESIS   |
| P 282 | SOLVENT EFFECTS ON HOMOGENEOUS CATALYSIS VIA ATOM TRANSFER RADICAL POLYMERIZATION OF ACRYLATES  |
| P 283 | CONTROLLED SYNTHESIS AND APPLICATION OF WATER SOLUBLE ALKYLDIARYL- AND DIALKYLARYL-PHOSPHANES   |
| P 284 | SYNTHESIS OF THE FIRST CHIRAL CHELATING NITROGEN LIGAND OF THE ALKYL-BIAN FAMILY  |
| P 285 | PALLADIUM NANOPARTICLES STABILIZED BY POLYMER MICELLES AS CATALYST FOR SUZUKI-MIYAUURA REACTION IN NEAT WATER, "GRINDING" PALLADIUM NANOPARTICLES UNDER ARYL IODIDE ACTION  |
| P 286 | FORMATION AND CLEAVAGE OF DICHRONIUM(III) COMPOUNDS CONTAINING BRIDGING CHLORINES WITH RESPECT TO ETHYLENE TRI- AND TETRAMERISATION   |
| P 287 | THE SUBSTITUTION OF N AND P BIDENTATE LIGANDS IN $[\text{CrCl}_3(\text{THF})_3]$ TO GAIN FURTHER INSIGHT INTO THE STUDY OF ETHYLENE TRI- AND TETRAMERISATION REACTIONS      |
| P 288 | DIMERISATION OF BUTENES IN ACIDIC IONIC LIQUIDS: CONCEPTS FOR INFLUENCING THE SELECTIVITY   |
| P 289 | HYDROGEN PEROXIDE-BASED CYCLOHEXENE OXIDATION CATALYZED BY DI-TITANIUM-19-TUNGSTODIARSENATE(III)  |
| P 290 | TOWARDS DNA BASED TRANSITION METAL CATALYSTS  |
| P 291 | TUNGSTEN COMPLEXES SUPPORTED ON OXIDES: SYNTHESIS, CHARACTERIZATION AND CATALYTIC PROPERTIES IN METATHESIS OF ISOBUTANE TO HIGH ADDED VALUE ALKANES                         |
| P 292 | TANTALUM HYDRIDES SUPPORTED ON SILICA AND MCM-41 MESOPOROUS SILICA: CATALYTIC PROPERTIES IN METHANE NON OXIDATIVE COUPLING REACTION.  |
| P 293 | DIRECT TRANSFORMATION OF ETHYLENE TO PROPYLENE, CATALYZED BY A TUNGSTEN HYDRIDE SUPPORTED ON ALUMINA, W-H/ $\text{Al}_2\text{O}_3$ : A TRI-FUNCTIONAL SINGLE SITE CATALYSIS |
| P 294 | PALLADIUM-CATALYZED SEQUENTIAL REACTIONS: SYNTHESIS OF HETEROCYCLES   |
| P 295 | OLIGOMERIZATION AND POLYMERIZATION OF STYRENES MEDIATED BY CATIONIC ALLYL NICKEL COMPLEXES BEARING $\text{SbPh}_3$ OR $\text{AsPh}_3$ LIGANDS                               |
| P 296 | PHOSPHATRIAZAADAMANTANE DERIVATIVES AND THEIR RU-COMPLEXES IN CATALYSIS   |
| P 297 | SYNTHESIS AND CATALYTIC PROPERTIES OF WATER-SOLUBLE TRANSITION METAL-N-HETEROCYCLIC CARBENE COMPLEXES   |
| P 298 | SYNTHESIS OF NHC-BASED RUTHENIUM COMPLEXES AND THEIR APPLICATION IN $\beta$ -ALKYLATION OF ALCOHOLS AND DIMERIZATION OF TERMINAL ALKYNES                                    |
| P 299 | CATALYTIC CONVERSION OF GLYCEROL TO VALUE-ADDED CHEMICALS   |
| P 300 | NOVEL LATE TRANSITION METAL COMPLEXES WITH A "NEUTRAL" PNP LIGAND AND SELECTED REACTIVITY STUDIES   |
| P 301 | A SPECTROSCOPIC AND THEORETICAL INVESTIGATION OF FISCHER CARBENE METAL CLUSTERS   |
| P 302 | NUCLEOPHILIC HOMOGENEOUS HYDROGENATION BY Ir-COMPLEXES  |
| P 303 | Rh-MEDIATED CARBENE INSERTION POLYMERISATION: HIGHLY FUNCTIONALISED POLYMERS FROM DIAZOESTERS   |
| P 304 | MODELLING AND SYNTHESIS OF GRUBBS-TYPE COMPLEXES WITH IMINE LIGANDS   |
| P 305 | BIMETALLIC LIGANDS FOR HYDROFORMYLATION   |
| P 306 | ENANTIOSELECTIVE HYDROGENATION OF BULKY KETONES CATALYSED BY A RUTHENIUM COMPLEX OF A CHIRAL TRIDENTATE LIGAND  |
| P 307 | INTRAMOLECULAR ASYMMETRIC ALLYLIC ALKYLATIONS: SYNTHESIS OF ENANTIOENRICHED GAMMA- AND DELTA- LACTAMS   |
| P 308 | KINETIC ANALYSIS OF THE HOMOGENEOUSLY CATALYSED HYDROFORMYLATION OF 1-OCTENE AND METHOXYCARBONYLATION OF 1-OCTENE   |
| P 309 | MODELLING OF METATHESIS PATHWAYS WITH BULKY GRUBBS-TYPE PRECATALYSTS  |
| P 310 | ISOTOPOMERIC DIOLS FROM RUTHENIUM-CATALYSED HYDROGENATION OF DICARBOXYLIC ACIDS   |

|       |   |
|-------|---|
| P 311 | KETONES AND FURANS SYNTHESIS THROUGH CARBOXYLATIVE ADDITION REACTIONS   |
| P 312 | ALLENE FUNCTIONALIZATION VIA A PALLADIUM-CATALYZED DOMINO SEQUENCE: A NEW ROUTE TO 4-(ALPHA-STYRYL)-GAMMA-LACTAMS                                     |
| P 313 | CATALYST IMMOBILIZATION ON POLYSTYRENE-BASED SUPPORTS VIA ELECTROSTATIC INTERACTIONS  |
| P 314 | ELECTROCHEMICAL SYNTHESIS OF ORGANONICKEL SIGMA-COMPLEXES FOR CATALYTIC APPLICATION   |
| P 315 | SYNTHESIS AND APPLICATION OF NEUTRAL RHODIUM(I) COMPLEXES CONTAINING A RIGID (P-O) LIGAND AS CATALYST PRECURSORS FOR THE HYDROFORMYLATION OF 1-HEXENE |
| P 316 | RHODIUM-CATALYZED STEREOREGULAR POLYMERIZATION OF PHENYLACETYLENE LEADING TO HIGH MOLECULAR WEIGHT POLYMERS   |
| P 317 | THE MECHANISM OF THE ZIEGLER-NATTA SYNDIOSPECIFIC CATALYSIS AT AB-INITIO LEVEL  |
| P 318 | ELECTRONIC EFFECTS IN OXO-TRANSFER REACTIONS CATALYSED BY MOLYBDENUM(VI) CIS-DIOXO SALAN COMPLEXES  |
| P 319 | HIGHLY SELECTIVE COBALT-CATALYZED HYDROVINYLATION   |
| P 320 | ALTERNATING COPOLYMERIZATION OF POLAR VINYL MONOMERS WITH CARBON MONOXIDE   |
| P 321 | TOWARDS CHIRAL TRIFLUOROMETHYLPHOSPHINES FOR ASYMMETRIC CATALYSIS   |
| P 322 | NEW CATALYSTS FOR THE CARBOXYLATION OF METHANOL   |
| P 323 | HYDROGENATIONS CATALYZED BY RHODIUM AND IRIIDIUM BASED CATALYSTS MODIFIED WITH WATER SOLUBLE BIOLIGANDS   |
| P 324 | RHODIUM AND IRIIDIUM CATALYSIS IN MULTIPHASIC IONIC LIQUID SYSTEMS  |
| P 325 | SULFENATE ANIONS IN PALLADIUM CATALYSIS: A NEW TOOL FOR THE PREPARATION OF SULFOXIDES   |
| P 326 | ASYMMETRIC SYNTHESIS OF GALIPEA ALKALOIDS BY AZA-MICHAEL REACTIONS  |
| P 327 | DEVELOPMENT OF FUJIWARA-MORITANI REACTION   |
| P 328 | CATALYTIC ASYMMETRIC HYDROXYLATION OF $\beta$ -KETOESTERS WITH OXAZIRIDINES   |
| P 329 | NEW X-RAY ABSORPTION SPECTROSCOPY TECHNIQUES PROVIDING DETAILED ELECTRONIC INSIGHTS IN HOMOGENEOUS CATALYSTS  |
| P 330 | CATALYST IMMOBILIZATION ON SOLUBLE SUPPORTS VIA "CLICK" CHEMISTRY   |
| P 331 | DNA-BASED LIGANDS FOR HOMOGENEOUS CATALYSIS   |
| P 332 | CONVENIENT METHOD FOR THE RAPID GENERATION OF HIGHLY ACTIVE AND ENANTIOSELECTIVE YTTRIUM CATALYSTS FOR ASYMMETRIC INTRAMOLECULAR HYDROAMINATION       |
| P 333 | SELECTIVE HYDROFORMYLATION OF 2,2'-DISUBSTITUTED ALKENES USING CHIRAL DIPHOSPHITES  |
| P 334 | DESIGN AND EVALUATION OF HEMILABILE GRUBBS-TYPE PRECATALYSTS FOR ALKENE METATHESIS  |
| P 335 | H-BONDING EFFECTS IN THE OXIDATION OF Pt(II) ALKYL COMPLEXES: TOWARDS A SHILOV CYCLE USING BENIGN OXIDANTS  |
| P 336 | THEORETICAL STUDY OF CATALYZED INTRAMOLECULAR [4C+3C] CYCLOADDITION BETWEEN DIENES AND ALLENES.   |
| P 337 | CATALYTIC ENANTIOSELECTIVE INTRAMOLECULAR HYDROXYALKOXYLATION OF ALLENES  |
| P 338 | SYNTHESIS OF 2,2'-BIS-BINOL ETHERS. INFLUENCE OF THE ALKYL ETHER LINK ON THE ASYMMETRIC ADDITION OF DIETHYLZINC TO AROMATIC ALDEHYDES                 |
| P 339 | SYNTHESIS AND CHARACTERIZATION OF RU CATALYSTS BEARING A CHELATING 2-(3-BUTENYL)-5-METHYLTHIOPHENE LIGAND   |
| P 340 | OLEFIN EPOXIDATION CATALYZED BY CYCLOPENTADIENYLOXIDOMOLYBDENUM(VI) COMPLEXES: A THEORETICAL OVERVIEW   |
| P 341 | RHODIUM CATALYZED ASYMMETRIC HYDROGENATION OF FUNCTIONALIZED PROCHIRAL OLEFINS: EFFECT OF THE REACTION MEDIUM   |
| P 342 | NEW FLUORINATED RHODIUM-PHOSPHINE COMPLEXES FOR HYDROGENATION OF STYRENE IN SUPERCRITICAL CARBON DIOXIDE  |
| P 343 | EFFICIENCY OF Pd AND Pt CAMPHORIMINE COMPLEXES FOR 4-PENTYN-1-OL CYCLIZATION: A COMPARATIVE STUDY   |
| P 344 | TUNING THE REACTIVITY OF NON-HEME IRON CATALYSTS FOR THE OXIDATION OF ALKANES   |
| P 345 | MECHANISTIC STUDY OF RHODIUM-XANTPHOS CATALYSED METHANOL CARBOXYLATION  |
| P 346 | REACTIVITY OF RHODIUM-SPANPHOS COMPLEXES RELATED TO CATALYTIC METHANOL CARBOXYLATION  |

|              |   |
|--------------|---|
| <b>P 347</b> | THE APPLICATION OF HYDROFORMYLATION FOR THE SYNTHESIS OF PHARMACEUTICAL INTERMEDIATES   |
| <b>P 348</b> | QUANTITATIVE MECHANISTIC STUDIES OF COBALT/PHOSPHINE CATALYSED HYDROFORMYLATION   |
| <b>P 349</b> | DIPHOSPHANES AS A ROUTE TO NEW DIPHOSPHINE LIGANDS  |
| <b>P 350</b> | HECK REACTION WITH Pd-PVP NANOPARTICLES: AN EFFECTIVE HOMOGENEOUS CATALYTIC SYSTEM  |
| <b>P 351</b> | P-STEREOGENIC RUTHENIUM TETHERED COMPLEXES: IMPROVING CATALYTIC BEHAVIOUR IN RADICAL ADDITIONS?   |
| <b>P 352</b> | ONE-POT HECK REACTION BETWEEN p-AMINOPHENOL AND SEVERAL OLEFINS PROMOTED BY THERMAL HEATING AND ULTRASOUND IRRADIATION  |
| <b>P 353</b> | SYNTHESIS AND COORDINATION PROPERTIES OF NOVEL PHOSPHONITES   |
| <b>P 354</b> | IONIC LIQUIDS. SYNTHESIS AND APPLICATION IN HOMOGENEOUS CATALYSIS   |
| <b>P 355</b> | IONIC INTERACTION AS A POWERFUL DRIVING FORCE FOR THE FORMATION OF HETEROBIDENTATE ASSEMBLY LIGANDS   |
| <b>P 356</b> | APPLICATION OF MONO-NUCLEAR HETERO-BIS(PHOSPHINE) Ru (II) COMPLEXES IN THE HOMOGENEOUS HYDROGENATION OF C=N AND C≡N FUNCTIONAL GROUPS   |
| <b>P 357</b> | NEW CHIRAL Mn AND Ru COMPLEXES CONTAINING PINENE LIGANDS. POTENTIAL CATALYSTS FOR OXIDATION REACTIONS.  |
| <b>P 358</b> | AQUEOUS EMULSION CO-POLYMERIZATION OF STYRENE WITH SUBSTITUTED STYRENES OR 1,3-BUTADIENE  |
| <b>P 359</b> | SYNTHESIS AND PROPERTIES OF POLYETHENE CONTAINING HIGH AMOUNT OF CYCLOPROPANE RINGS   |
| <b>P 360</b> | NICKEL-CATALYZED DIMERIZATION AND POLYMERIZATION OF 1,6-DIYNES  |
| <b>P 361</b> | SYNTHESIS AND PROPERTIES OF NICKEL(II) AND COPPER(II) HEXAAZA MACROCYCLIC WITH POLYCARBOXYLATE LIGANDS  |
| <b>P 362</b> | SYNTHESIS AND CHARACTERIZATION OF TRANSITION METAL COMPLEXES CONTAINING TETRAAZA MACROCYCLES AND POLYCARBOXYLATE LIGANDS  |
| <b>P 363</b> | REACTION OF ZEROVALENT PLATINUM COMPLEX WITH 1,2-DIHYDRODIMETALLANE AND THEIR BEHAVIOR  |
| <b>P 364</b> | SPECTROSCOPIC AND STRUCTURAL CHARACTERIZATION OF REACTION INTERMEDIATES IN THE REACTION OF [Pt(PPh <sub>3</sub> ) <sub>2</sub> (η <sup>2</sup> -C <sub>2</sub> H <sub>4</sub> )] WITH 1,1,2,2-TETRAMETHYLDISILANE |
| <b>P 365</b> | WELL-DEFINED SILICA-SUPPORTED LANTHANIDE AMIDES: THEIR SYNTHESIS, CHARACTERIZATION AND USE AS VERSATILE CATALYSTS.  |
| <b>P 366</b> | EFFICIENT CATALYTIC TRANSFER HYDROGENATION OF LEVULINIC ACID TO GAMMA-VALEROLACTONE   |
| <b>P 367</b> | INVESTIGATION OF THE ELECTRONICAL BINDING SITUATION IN Rh(I)/ Rh(0) COMPLEXES WITH RIGID CARBENE OLEFINE CHELATE  |
| <b>P 368</b> | HIGH THROUGHPUT SCREENING FOR THE OPTIMISATION OF HYDROGENATION AND C-C/ C-N COUPLING REACTIONS   |
| <b>P 369</b> | HIGHLY EFFICIENT SUZUKI-MIYAUURA CROSS COUPLING IN AQUEOUS MEDIA CATALYZED BY TRANS-[Pd{NH(CH <sub>2</sub> CH <sub>2</sub> OH) <sub>2</sub> (Cl) <sub>2</sub> }(1) COMPLEX  |
| <b>P 370</b> | HIGHLY REGIOSELECTIVE METHOXYCARBONYLATION OF ALKYNES: SYNTHESIS OF CINNAMATES  |
| <b>P 371</b> | MARKET POTENTIAL OF CHIRAL TECHNOLOGY   |
| <b>P 372</b> | A SUPRAMOLECULAR APPROACH: REGIOSELECTIVE HYDROFORMYLATION OF ALKENES   |
| <b>P 373</b> | APPLYING HOMOGENOUS CATALYSIS TO THE SYNTHESIS OF PEPTIDMIMETICS  |
| <b>P 374</b> | METATHESIS ASSISTED SYNTHESIS OF CYCLIC PEPTIDES  |
| <b>P 375</b> | USING CROSS METATHESIS TO GENERATE PEPTIDE-POLYMER HYBRIDS  |
| <b>P 376</b> | COPOLYMERIZATION OF EPOXIDES WITH CARBON DIOXIDE CATALYZED BY COBALT COMPLEXES  |
| <b>P 377</b> | HYPERBRANCHED POLYGLYCEROL AS SUPPORT FOR METAL-SALEN COMPLEXES IN ASYMMETRIC CATALYSIS   |
| <b>P 378</b> | A METATHESIS ROUTE TO SPIROCYCLIC ALKALOID PRECURSORS   |
| <b>P 379</b> | NEW DIRECTIONS IN TRANSITION METAL CATALYSED CARBONYLATION  |
| <b>P 380</b> | PARALLEL KINETIC STUDIES OF CATALYTIC OLEFIN POLYMERIZATION IN MINI-SCALE: SMALL IS BEAUTIFUL!  |
| <b>P 381</b> | YTTRIUM AND TITANIUM COMPLEXES WITH A DIAMINO-BISPHENOLATE LIGAND AND THEIR APPLICATION IN THE ROP OF ε-CAPROLACTONE  |



|       |  |
|-------|--|
| P 382 | ASYMMETRIC HYDROFORMYLATION: A POWERFUL TOOL FOR THE SYNTHESIS OF PHARMACEUTICAL INTERMEDIATES   |
| P 383 | ASYMETRIC OXIDATION OF THIOANISOLE WITH REDUCED SCHIFF BASE OXOVANADIUM(IV) AND TITANIUM(IV) COMPLEXES   |
| P 384 | MODELING OF CHAIN DYNAMICS IMPACT UPON POLYMER SYNTHESIS BY COORDINATION CATALYSTS IN SOLUTION   |
| P 385 | PALLADIUM-CATALYZED TRANSFORMATIONS OF ORTHO-HALOGENOBENZALDEHYDES-A DOMINO KECK-HECK PROCESS  |
| P 386 | NEUTRAL INDENYL NICKEL(II) COMPLEXES CONTAINING ARSINE AND STIBINE LIGANDS AND THEIR USE IN STYRENE OLIGOMERISATION  |
| P 387 | SYNTHESIS AND CHARACTERIZATION OF NEW WATER SOLUBLE $RuCl_2(DMSO)_x(PySO_3Na)_y$ COMPLEXES AND 1-HEXENE AND REAL NAPHTHA BIPHASIC HYDROFORMYLATION CATALYTIC ACTIVITY            |
| P 388 | A POLYMER-SUPPORTED PHOSPHORAMIDE AS A LEWIS-BASE CATALYST FOR THE CATALYTIC ALDOL REACTION  |
| P 389 | CHROMIUM CATALYSTS WHICH SWITCH SELECTIVITY FROM NON-SELECTIVE ETHYLENE OLIGOMERIZATION TO TRIMERIZATION AND POLYMERIZATION.   |
| P 390 | OLEFIN (EP)OXIDATION REACTIONS USING $MoO_2L_2$ COMPLEXES IN SOLVENT-FREE CONDITIONS: GREEN CONCEPT AND RESULTS  |
| P 391 | TOWARDS A MECHANISTIC UNDERSTANDING OF CO HYDROGENATION TO ALCOHOLS  |
| P 392 | INDOLE ALKALOIDE SYNTHESIS: AN ENANTIOSELECTIVE ONE-POT REACTION TO INDOLO[2,3,a]QUINOLIZINE.  |
| P 393 | $HCo(CO)_4$ IN METHANOL - AN ACID OR A HYDRIDE?  |
| P 394 | SEPARATION OF GRUBBS-TYPE PRECATALYSTS WITH ORGANIC SOLVENT NANOFILTRATION   |
| P 395 | DEVELOPING NEW P-CHIRAL FRAGMENTS FOR METALLODENDRIMER PALLADIUM COMPOUNDS CONTAINING MONODENTATE P-STEREOGENIC PHOSPHINES. SYNTHESIS AND CATALYTIC BEHAVIOUR                    |
| P 396 | A NEW CATALYTIC PROCESS FOR THE SYNTHESIS OF ARYL ALKYL ETHERS   |
| P 397 | OLIGOMERISATION OF ACETYLENE USING GROUP III, IV AND V METALLOCENES AND ALUMINIUM ACTIVATORS   |
| P 398 | METAL-MEDIATED ALLYLATION OF UNPROTECTED MONOSACCHARIDES COMBINED WITH SUBSEQUENT HYDROFORMYLATION   |
| P 399 | FROM CO/ALKENE POLYKETONES TO POLYALCOHOLS VIA IRIIDIUM-CATALYZED TRANSFER HYDROGENATION   |
| P 400 | NON-SYMMETRIC Ar-BIAN LIGANDS IN THE Pd-CATALYZED POLYKETONE SYNTHESIS: A KINETIC INVESTIGATION  |
| P 401 | IMIDAZOLIUM TRIFLATE IONIC LIQUIDS: PREPARATION OF HALIDE FREE SALTS AND APPLICATION IN PALLADIUM-CATALYSED ALLYLIC ALKYLATION AND HYDROFORMYLATION, TOWARD ASYMMETRIC PROCESSES |
| P 402 | SELECTIVE REDUCTION OF DIPHENYLACETYLENE USING WATER AND METHANOL MEDIATED AND CATALYZED BY $Ni(0)$ COMPLEXES  |
| P 403 | A HIGHLY ACTIVE AND REUSABLE COPPER(I)-TREN CATALYST FOR ATOM TRANSFER RADICAL POLYMERIZATION AND "CLICK" 1,3-DIPOLAR CYCLOADDITION OF AZIDES AND ALKYNES                        |
| P 404 | BENZIMIDAZOLE-PYRROLIDINE/ $H^+$ , A HIGHLY REACTIVE ORGANOCATALYST FOR ASYMMETRIC ALDOLISATIONS   |
| P 405 | CALIX[4]RESORCINES MODIFIED BY PHOSPHINO-, PHOSPHORYL- AND AMINO UNITS AT THE LOWER AND UPPER RIM - PERSPECTIVE LIGANDS OF A NEW TYPE FOR HOMOGENEOUS CATALYSTS                  |
| P 406 | THE ANATOMY OF A BICYCLIC PHOSPHINE: 9-PHOSPHABICYCLONONANE  |
| P 407 | POLYURETHANE AND POLYSTYRENE SUPPORTED TEMPO: PREPARATION, CATALYTIC OXIDATION AND APPLICATION IN A MEMBRANE REACTOR   |
| P 408 | INFLUENCE OF METAL NEIGHBOURING GROUPS ON THE REACTIVITY OF N-HETEROCYCLIC CARBENE Pd(II) COMPLEXES  |
| P 409 | SYNTHESES VIA PALLADACYCLES: CATALYTIC C-H ACTIVATION FOR DEHYDROGENATION OF ALKYL CHAINS  |

|       |  |
|-------|--|
| P 410 | CATALYSIS BY DESIGN: WIDE BITE ANGLE DIPHOSPHINES BY ASSEMBLY OF DITOPIC LIGANDS FOR SELECTIVE RHODIUM CATALYZED HYDROFORMYLATION.                                       |
| P 411 | Ag(I)-CATALYZED SEQUENTIAL C-C AND C-O BOND FORMATIONS BETWEEN PHENOLS AND DIENES WITH ATOM ECONOMY  |
| P 412 | KINETIC AND THEORETICAL STUDY OF ASYMMETRIC HYDROGENATION OF M-ACRYLATE BY Rh (I)/(R, R)-Me-BPE  |
| P 413 | HOMOLYTIC VS. HETEROLYTIC WATER-ASSISTED DIHYDROGEN SPLITTING BY Ru(II)-PTA COMPLEXES: A DFT ANALYSIS OF THE REACTION MECHANISM (PTA=1,3,5-TRIAZA-7-PHOSPHAADAMANTANE)   |
| P 414 | CATALYTICALLY ACTIVE SPECIES IN Ni-BASED CATALYTIC SYSTEMS FOR LOW-TEMPERATURE METHANOL SYNTHESIS PROBED BY IN SITU ATR/FTIR   |
| P 415 | FUNCTIONALIZATION OF VINYL-SUBSTITUTED SILOXANES VIA CROSS-METATHESIS AND SILYLATIVE COUPLING  |
| P 416 | IMMOBILIZED VS. SOLUBLE RUTHENIUM SILOXIDE CATALYSTS FOR OLEFIN METATHESIS   |
| P 417 | HIGHLY EFFICIENT CATALYTIC SYSTEM FOR HYDROSILYLATION PROCESSES BASED ON Rh COMPLEXES IN IONIC LIQUIDS   |
| P 418 | ENANTIOSELECTIVE HYDROGENATION OF KETONES USING MONODENTATE PHOSPHORAMIDATE LIGANDS  |
| P 419 | DEVELOPMENT OF NEW OXIDATION CATALYSTS: WHAT CAN WE GAIN FROM THEORETICAL CHEMISTRY? ILLUSTRATION ON A COPPER(II)-CATALYZED AEROBIC OXIDATION OF PRIMARY ALCOHOL         |
| P 420 | PINCER COMPLEXES FOR HYDROGENATION OF POLAR BONDS  |
| P 421 | ARTIFICIAL METALLOENZYMES: A NEW GENERATION OF TUNEABLE TRANSITION METAL CATALYSTS   |
| P 422 | DEOXYDESULFURIZATION OF SULFONES OF DIBENZOTHIOPHENE WITH NICKEL COMPOUNDS.  |
| P 423 | B-C BOND CLEAVAGE OF $\text{BAR}_f$ ANION UPON OXIDATION OF Rh(I) WITH $\text{AgBAR}_f$ . PHOSPHINITE Rh(I), Rh(II) AND Rh(III) PINCER COMPLEXES.                        |
| P 424 | A HIGHLY EFFICIENT METAL-FREE CATALYTIC PRIMARY AMINES AND $\beta$ -AMINO ALCOHOL OXIDATIVE CARBONYLATION PROCESS  |
| P 425 | WELL-DEFINED SINGLE-SITE HETEROGENEOUS Ir-NHC CATALYSTS FOR H/D EXCHANGE REACTION VIA SURFACE ORGANOMETALLIC CHEMISTRY ON HYBRID ORGANIC-INORGANIC MATERIALS             |
| P 426 | HIGHLY EFFICIENT AND REUSABLE ACIDIC IONIC LIQUID-CATALYZED HYDROAMINATION OF OLEFINS WITH SULFONAMIDES, CARBAMATES AND CARBOXAMIDES                                     |
| P 427 | EFFICIENT CHIRAL AUXILIARIES FOR THE ASYMMETRIC SYNTHESIS OF NON-PROTEINOGENIC (S)-ALPHA-AMINO ACIDS   |
| P 428 | SYNTHESIS AND STRUCTURE OF Cd(II) CYCLAM COMPLEXES   |
| P 429 | UREAPHOS: A SUPRAMOLECULAR BIDENTATE LIBRARY FOR ASYMMETRIC HYDROGENATION OF DIFFICULT SUBSTRATES  |
| P 430 | SELECTIVE OLIGOMERISATION OF ETHYLENE USING A Cr CATALYST SYSTEM   |
| P 431 | STUDY ON THE Ag NANOPARTICLE HOMOGENEOUSLY FORMED ON THE SURFACE OF $\text{SiO}_2$ NANOPARTICLES   |
| P 432 | ORGANOCATALYTIC SULFOXIDATION MEDIATED BY QUATERNARY PYRAZINIUM SALTS AS SIMPLE FLAVIN ANALOGS   |
| P 433 | SYNTHESIS AND CHARACTERIZATION OF $\text{Al}_2\text{O}_3$ DOPED ZnO NANOFIBERS FOR OPTOELECTRONIC DEVICE APPLICATIONS  |
| P 434 | MECHANISTIC STUDY INTO TRANSFER HYDROGENATION OF IMINES BY 16 ELECTRON PENTAMETHYLCYCLOPENTADIENYL RHODIUM AND IRIIDIUM COMPLEXES  |
| P 435 | ACHIRAL ADDITIVES TO IMPROVE ENANTIOSELECTIVITY IN ASYMMETRIC CATALYSIS: FACTS AND FUTURE.   |
| P 436 | CATALYTIC ACTIVITY OF GOLD(III) COMPLEXES ON MMA POLYMERIZATION  |
| P 437 | PHOSPHIDO PINCER COMPLEXES OF PLATINUM: SYNTHESIS, STRUCTURE AND REACTIVITY  |
| P 438 | SYNTHESIS AND CHARACTERIZATION OF GROUP 4 METAL COMPLEXES BEARING MONOANIONIC [OX] (X = O, S) BIDENTATE LIGANDS AND THEIR BEHAVIORS IN $\alpha$ -OLEFINS POLYMERIZATION. |
| P 439 | PREPARATION OF A WELL-DEFINED SILICA SUPPORTED NICKEL- DIIMINE ALKYL COMPLEX - APPLICATION AS A CATALYST FOR THE GAS PHASE POLYMERIZATION OF ETHYLENE                    |
| P 440 | LANTHANIDE COMPLEXES OF MODIFIED CALIX[4]PYRROLIDES  |

|       |   |
|-------|---|
| P 441 | TOWARDS A LIVING POLYMERIZATION BY A METALLOCENE COORDINATION CATALYST AT HIGH TEMPERATURE  |
| P 442 | PHOSPHABENZENE-BASED LIGANDS IN THE RHODIUM-CATALYZED HYDROFORMYLATION OF FUNCTIONALIZED ALKENES  |
| P 443 | HOW TO MAKE DIFFICULT OLEFIN METATHESIS REACTIONS POSSIBLE - APPLICATION OF NEW CATALYSTS AND OPTIMIZATION OF REACTION CONDITIONS   |
| P 444 | RING OPENING POLYMERIZATION OF LACTIDE CATALYZED BY CHLORO TITANIUM CALIX[4]ARENE COMPLEXES   |
| P 445 | SYNTHESIS AND CATALYTIC PROPERTIES IN OLEFINS' EPOXIDATION OF DIAMINE-BIS(PHENOLATE) DIOXOMOLYBDENUM AND DIOXOTUNGSTEN COMPLEXES  |
| P 446 | RUTHENIUM CATALYZED ALLYLIC SUBSTITUTION: REGIOSELECTIVITY, ENANTIOSELECTIVITY AND NOVELTY  |
| P 447 | FUNCTIONALISATION OF SBA-15 SILICA BY IMMOBILISATION OF DIOP-Rh COMPLEXES: APPLICATION TO PROCHIRAL OLEFINS HYDROGENATION   |
| P 448 | THE FIRST APPLICATION OF CHIRAL PHOSPHINE-PHOSPHITE LIGANDS IN THE Cu-CATALYZED ENANTIOSELECTIVE CONJUGATE ADDITION OF GRIGNARD REAGENTS  |
| P 449 | (PRPh <sub>2</sub> )Co(C <sub>4</sub> H <sub>6</sub> )(C <sub>4</sub> H <sub>7</sub> ) [R = METHYL, ETHYL, n-PROPYL, i-PROPYL, CYCLOHEXYL]: SYNTHESIS, CHARACTERIZATION AND BEHAVIOR IN THE POLYMERIZATION OF 1,3-DIENES AND ALLENE |
| P 450 | SYNTHESIS OF TOCOPHERAMINES BY PALLADIUM MEDIATED AMINATION OF ARYL TRIFLATES   |
| P 451 | CATALYTIC ENANTIOSELECTIVE HYDROGENATION OF CYCLIC (THIO-) ANHYDRIDES TO CHIRAL (THIO-) LACTONES: A DREAM REACTION?   |
| P 452 | POLY(L-LACTIDE) SEGMENTED WITH PERFLUOROPOLYETHER AS SCAFFOLD FOR MOLECULAR SELF-ASSEMBLY   |
| P 453 | SELECTIVE CONFINEMENT OF NANOPARTICLES IN THE INNER CAVITY OF MULTI-WALLED CARBON NANOTUBES FOR SELECTIVE HYDROGENATION REACTIONS   |
| P 454 | SUPPORTED IONIC LIQUID PHASE CATALYSIS ON FUNCTIONALIZED CARBON NANOTUBES   |
| P 455 | HYDROXYLATION OF PHENOL BY H <sub>2</sub> O <sub>2</sub> - INFLUENCE OF SALEN STRUCTURE ON REACTION SELECTIVITY   |
| P 456 | SYNTHESIS OF S-ALKYL BIOACTIVE AND HETEROCYCLIC CHIRAL SULFOXIMINES   |
| P 457 | SELECTIVE DEMETHYLATION OF METHYL ESTERS AND SYNTHESIS OF ISOXAZOLES IN IONIC LIQUIDS   |
| P 458 | PHOSPHINE-FREE PERFLUORO-TAGGED PALLADIUM NANOPARTICLES SUPPORTED ON FLUOROUS REVERSED-PHASE SILICA GEL. APPLICATION FOR THE C-C CROSS-COUPLED REACTIONS.   |
| P 459 | DEVELOPMENT OF ZWITTERIONIC PYRROLE BASED LIGANDS ON GROUP IV METALS FOR SINGLE-COMPONENT ETHYLENE OLIGOMERIZATION AND POLYMERIZATION CATALYSIS   |
| P 460 | C-H ACTIVATION OF POLYCYCLIC AROMATIC HYDROCARBONS BY OSMIUM AND RHENIUM CARBONYLS  |
| P 461 | HYBRID Pd AND Ni POCSP Pincer Complexes for Cross-Coupling Reactions  |
| P 462 | IMINOISOINDOLINES AS LIGANDS FOR THE FORMATION OF PALLADACYCLIC COMPLEXES: SYNTHESIS, CHARACTERIZATION AND APPLICATION IN C-C COUPLING REACTIONS  |
| P 463 | NOVEL POLYDENTATE DIPHOSPHINE LIGANDS FOR COORDINATION CHEMISTRY AND CATALYSIS  |
| P 464 | INNER SPHERE REACTIONS OF VANADIUM(V) PEROXO COMPLEXES  |
| P 465 | OXIDATION OF ALKYLAROMATIC COMPOUNDS BY H <sub>2</sub> O <sub>2</sub> IN BIPHASIC CONDITIONS: COMPARATIVE STUDY OF MICELLAR, POLYMER AND CYCLODEXTRIN BASED CATALYTIC SYSTEMS   |
| P 466 | PREPARATION AND CHARACTERIZATION OF Rh/C CATALYST FOR ETHYLENE HYDROFORMYLATION   |
| P 467 | EFFICIENT AND ENVIRONMENTALLY FRIENDLY SYNTHESIS OF 1,2-PROPANEDIOL FROM GLYCEROL USING COPPER-BASED CATALYST.  |
| P 468 | ETHYLENE TRIGGERED COPOLYMERIZATION REACTIONS USING UNBRIDGED BIS-INDENYL METALLOCENE CATALYSTS   |
| P 469 | THEORETICAL STUDY OF THE MECHANISM OF CARBON-HYDROGEN BOND ACTIVATION BY HYDRIDOTRIS(PYRAZOLYL)BORATO CARBONYL RHODIUM COMPLEXES  |
| P 470 | HOTf-CATALYZED ROP OF DL-LACTIDE: KINETIC STUDIES ON INITIATORS   |
| P 471 | AEROBIC EPOXIDATION OF PROPYLENE CATALYZED BY POLYOXOMETALATES  |
| P 472 | Pd(II)-PHOSPHINE CATALYSTS FOR THE OXIDATIVE CARBONYLATION OF ALKANOLS. SYNTHESIS, CHARACTERIZATION, AND REACTIVITY OF NEW CARBOALKOXY COMPLEXES AS MODEL INTERMEDIATES   |

|              |   |
|--------------|---|
| <b>P 473</b> | DENDRIMER BASED CATALYSTS FOR WACKER-OXIDATION:ROLE OF SUPRAMOLECULES ORGANIZATION  |
| <b>P 474</b> | HYDROGENATION CATALYZED BY PHOSPHINOHYDRAZINE-Rh(I) COMPLEXES IN SC CO <sub>2</sub>   |
| <b>P 475</b> | MINIMISING CONTAMINATION IN METAL CATALYSED REACTIONS   |
| <b>P 476</b> | RUTHENIUM CATALYST FOR MICELLAR POLYMERIZATION  |
| <b>P 477</b> | PROPENE-NORBORNENE COPOLYMERS BY C <sub>2</sub> -SYMMETRIC METALLOCENE <i>rac</i> -Et(INDENYL) <sub>2</sub> ZrCl <sub>2</sub> : INFLUENCE OF REACTION CONDITIONS ON REACTIVITY AND COPOLYMER PROPERTIES |
| <b>P 478</b> | ETHYLENE NORBORNENE COPOLYMERIZATION BY RARE EARTH CATALYSTS  |
| <b>P 479</b> | THE CATALYTIC ACTIVITY OF NEW PERFLUOROALKYLATED THIOPENE-Pd(II) AND Rh(I) COMPLEXES ON OLEFINE HYDROGENATION REACTION IN SUPERCRITICAL CO <sub>2</sub> /ORGANIC SOLVENTS                               |
| <b>P 480</b> | TRANSITION METAL COMPLEXES INCORPORATING BORANE/BOROHYDRIDE LIGANDS AND THEIR APPLICATION TO TRANSFER HYDROGENATION.  |
| <b>P 481</b> | MgBr <sub>2</sub> .6H <sub>2</sub> O IN EtOH A HOMOGENEOUS SYSTEM FOR DIRECT MANNICH-TYPE REACTION  |
| <b>P 482</b> | OXIDATION OF 2,6-DI- <i>tert</i> -BUTYLPHENOL WITH <i>tert</i> -BUTYL HYDROPEROXIDE CATALYZED BY HETEROGENEOUS AND HOMOGENEOUS IRON-PHTHALOCYANINE TETRASULFONATES                                      |
| <b>P 483</b> | OXIDATION OF 2,4,6-TRICHLOROPHENOL WITH <i>tert</i> -BUTYL HYDROPEROXIDE OR POTASSIUM PEROXYMONOSULFATE CATALYZED BY IRON PHTHALOCYANINE TETRASULFONATE IN A METHANOL WATER MIXTURE                     |
| <b>P 484</b> | TITANIUM CHLORIDE COMPLEXES (IV) WITH DERIVATIVES OF TETRAARYL-1, 3- DIOXOLANE-4,5-DIMETHANOLE (TADDOLS) CHIRAL LIGANDS - NEW TYPE OF CATALYSTS OF ETHYLENE POLYMERIZATION                              |