

Subject Index

- Abisidia coerulea* IFO 4011
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- Alcohol
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- 6-Aminopenicillanic acid
Selectivity of the enzymatic synthesis of ampicillin by *E. coli* PGA in the presence of high concentrations of substrates 81
- Ampicillin synthesis selectivity
Selectivity of the enzymatic synthesis of ampicillin by *E. coli* PGA in the presence of high concentrations of substrates 81
- Arbutin
One-pot synthesis of glycosyl poly(arbutin) by enzymatic glycosylation followed by polymerization with peroxidase 1
- Aromatic amines
Laccase kinetics of degradation and coupling reactions 23
- Azo dye
Laccase kinetics of degradation and coupling reactions 23
- Bacteria
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- β -Galactosidase
Stability and catalytic kinetics of microencapsulated β -galactosidase in liposomes prepared by the dehydration–rehydration method 15
- Bioreduction
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- Biotransformation
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- Bleaching
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Burkholderia*
Endorsing functionality of *Burkholderia pseudomallei* glyoxylate cycle genes as anti-persistence drug screens 51
- Catalytic activity
Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties 43
- Catalytic reduction
Multi-step reduction of nitric oxide by cytochrome *c* entrapped in phosphatidylcholine films 9
- Catharanthus roseus* (Apocynaceae)
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- Chinensiolide B
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- Chiral selector
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
- Coupling
Laccase kinetics of degradation and coupling reactions 23
- Cytochrome *c*
Multi-step reduction of nitric oxide by cytochrome *c* entrapped in phosphatidylcholine films 9
- Cytotoxic activity
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- DNA polymerase
DNA polymerase activity in water-structured and confined environment of reverse micelles 29
- E. coli*
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Electrochemistry
Multi-step reduction of nitric oxide by cytochrome *c* entrapped in phosphatidylcholine films 9
- Enantioselective hydrolysis
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
- Enzymatic nucleic acids synthesis
DNA polymerase activity in water-structured and confined environment of reverse micelles 29
- Enzyme immobilisation
Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties 43
- Enzyme stability
Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties 43
- (*R,S*)-Flurbiprofen ethyl ester
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
- (*S*)-Flurbiprofen
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
- Functionalized mesoporous materials
Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties 43
- Glucose oxidase
Enzyme immobilization on amino-functionalized mesostructured cellular foam surfaces, characterization and catalytic properties 43

- Glycosylation
One-pot synthesis of glycosyl poly(arbutin) by enzymatic glycosylation followed by polymerization with peroxidase 1
- Glyoxylate cycle
Endorsing functionality of *Burkholderia pseudomallei* glyoxylate cycle genes as anti-persistence drug screens 51
- Isoamylase
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Isocitrate lyase
Endorsing functionality of *Burkholderia pseudomallei* glyoxylate cycle genes as anti-persistence drug screens 51
- Keggin structure
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Ketone
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- Kinetics
Laccase kinetics of degradation and coupling reactions 23
- Kraft pulp
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Laccase
Laccase kinetics of degradation and coupling reactions 23
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Lag period
Reaction mechanism to explain the high kinetic autoactivation of tyrosinase 35
- Lectin
One-pot synthesis of glycosyl poly(arbutin) by enzymatic glycosylation followed by polymerization with peroxidase 1
- Lipase
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
Stability of protein-coated microcrystals in organic solvents 65
- Liposomes
Stability and catalytic kinetics of microencapsulated β -galactosidase in liposomes prepared by the dehydration–rehydration method 15
- Malate synthase
Endorsing functionality of *Burkholderia pseudomallei* glyoxylate cycle genes as anti-persistence drug screens 51
- Microencapsulation
Stability and catalytic kinetics of microencapsulated β -galactosidase in liposomes prepared by the dehydration–rehydration method 15
- Monophenol
Reaction mechanism to explain the high kinetic autoactivation of tyrosinase 35
- Mushroom
Reaction mechanism to explain the high kinetic autoactivation of tyrosinase 35
- Nitric oxide
Multi-step reduction of nitric oxide by cytochrome *c* entrapped in phosphatidylcholine films 9
- Organic solvent
Stability of protein-coated microcrystals in organic solvents 65
- Oxygen delignification
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Penicillin G acylase
Selectivity of the enzymatic synthesis of ampicillin by *E. coli* PGA in the presence of high concentrations of substrates 81
- Peroxidase
One-pot synthesis of glycosyl poly(arbutin) by enzymatic glycosylation followed by polymerization with peroxidase 1
- Persistence
Endorsing functionality of *Burkholderia pseudomallei* glyoxylate cycle genes as anti-persistence drug screens 51
- Phosphatidylcholine
Multi-step reduction of nitric oxide by cytochrome *c* entrapped in phosphatidylcholine films 9
- Platycodon grandiflorum* (Campanulaceae)
Biotransformation of chinensiolide B and the cytotoxic activities of the transformed products 87
- Polymerization
One-pot synthesis of glycosyl poly(arbutin) by enzymatic glycosylation followed by polymerization with peroxidase 1
- Polyoxometalate
Oxygen bleaching of kraft pulp with polyoxometalates and laccase applying a novel multi-stage process 57
- Polyphenol oxidase
Reaction mechanism to explain the high kinetic autoactivation of tyrosinase 35
- Protein-coated microcrystals (PCMC)
Stability of protein-coated microcrystals in organic solvents 65
- Reverse micelles
DNA polymerase activity in water-structured and confined environment of reverse micelles 29
- Selenium
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- Stability
Stability of protein-coated microcrystals in organic solvents 65
- Starch
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Subtilisin
Stability of protein-coated microcrystals in organic solvents 65
- Succinyl β -CD
Lipase-catalyzed production of optically active (*S*)-flurbiprofen in aqueous phase reaction system containing chiral succinyl β -cyclodextrin 93
- Sulfolobus solfataricus*
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Synthesis/hydrolysis ratio
Selectivity of the enzymatic synthesis of ampicillin by *E. coli* PGA in the presence of high concentrations of substrates 81
- Tellurium
Enantioselective reduction of *ortho*-substituted acetophenones by bacterial strains isolated from medium enriched with biphenyl or diesel fuel 73
- Thermal and proteolytic stability
Stability and catalytic kinetics of microencapsulated β -galactosidase in liposomes prepared by the dehydration–rehydration method 15
- Thermophilic
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Trehalose
Characterization of the thermophilic isoamylase from the thermophilic archaeon *Sulfolobus solfataricus* ATCC 35092 99
- Tyrosine
Reaction mechanism to explain the high kinetic autoactivation of tyrosinase 35