

Subject Index

- Acetyl esterase
Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase 72
- Acid anhydrides
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- Activated bleaching earth
Kinetic study of esterification of rapeseed oil contained in waste activated bleaching earth using *Candida rugosa* lipase in organic solvent system 95
- Activity
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Acyl migration
Study on acyl migration in immobilized lipozyme TL-catalyzed transesterification of soybean oil for biodiesel production 68
- Affinity beads
Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption 88
- Alcalase
Synthesis of tripeptide RGD amide by a combination of chemical and enzymatic methods 9
- Alcaligenes*
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Alcoholysis
 α -Amylase-catalysed synthesis of alkyl glycosides 84
- Alkyl glycoside
 α -Amylase-catalysed synthesis of alkyl glycosides 84
- Amino acids
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Aminotransferase
Revisit of aminotransferase in the genomic era and its application to biocatalysis 47
- α -Amylase
 α -Amylase-catalysed synthesis of alkyl glycosides 84
- 2-Aryloxy-1-propanols
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- Biodegradable surfactant
 α -Amylase-catalysed synthesis of alkyl glycosides 84
- Biodiesel
Study on acyl migration in immobilized lipozyme TL-catalyzed transesterification of soybean oil for biodiesel production 68
- Biosurfactant
 α -Amylase-catalysed synthesis of alkyl glycosides 84
- Biosynthesis
Revisit of aminotransferase in the genomic era and its application to biocatalysis 47
- Candida antarctica* lipase A
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Candida rugosa*
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Candida rugosa* lipase
Kinetic study of esterification of rapeseed oil contained in waste activated bleaching earth using *Candida rugosa* lipase in organic solvent system 95
- Chelating beads
Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption 88
- Chemoselective *N*-acylation
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Coprinus cinereus*
Kinetics of laccase-catalysed TEMPO oxidation 79
- Co-refolding
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- Danio rerio*
Cloning and characterization of a fish microsomal epoxide hydrolase of *Danio rerio* and application to kinetic resolution of racemic styrene oxide 30
- Enantiopure styrene oxide
Cloning and characterization of a fish microsomal epoxide hydrolase of *Danio rerio* and application to kinetic resolution of racemic styrene oxide 30
- Enantioselective acylation
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- Enzymatic reactions
Non-coded amino acids as acyl donor substrates for peptide bond formation catalyzed by thermoase in toluene 26
- Enzyme
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Enzyme immobilization
Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption 88
- Epoxide hydrolase
Cloning and characterization of a fish microsomal epoxide hydrolase of *Danio rerio* and application to kinetic resolution of racemic styrene oxide 30
- ESI-MS
Characterization of GDP-mannose pyrophosphorylase from *Escherichia coli* O157:H7 EDL933 and its broad substrate specificity 1
- Extractive purification
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- Fatty acid methyl ester
Kinetic study of esterification of rapeseed oil contained in waste activated bleaching earth using *Candida rugosa* lipase in organic solvent system 95

- trans*-Fatty acids selectivity
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Fed-batch
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- (*R,S*)-Flurbiprofen ethyl ester
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- (*S*)-Flurbiprofen
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- GDP-mannose pyrophosphorylase
Characterization of GDP-mannose pyrophosphorylase from *Escherichia coli* O157:H7 EDL933 and its broad substrate specificity 1
- Gene mining
Cloning and characterization of a fish microsomal epoxide hydrolase of *Danio rerio* and application to kinetic resolution of racemic styrene oxide 30
- Gene splitting
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- β -Glucosidase
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- Hofmeister series
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Inclusion complex
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- Inhibition
Revisit of aminotransferase in the genomic era and its application to biocatalysis 47
- Invertase
Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption 88
- Ion
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Ionic liquid
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Kinetic resolution
Cloning and characterization of a fish microsomal epoxide hydrolase of *Danio rerio* and application to kinetic resolution of racemic styrene oxide 30
- Laccase
Kinetics of laccase-catalysed TEMPO oxidation 79
- Lipase
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
Study on acyl migration in immobilized lipozyme TL-catalyzed transesterification of soybean oil for biodiesel production 68
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- Low temperature
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- Myceliophthora thermophila*
Kinetics of laccase-catalysed TEMPO oxidation 79
- N- and C-terminal domains
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- NDP-mannose
Characterization of GDP-mannose pyrophosphorylase from *Escherichia coli* O157:H7 EDL933 and its broad substrate specificity 1
- Non-coded amino acids
Non-coded amino acids as acyl donor substrates for peptide bond formation catalyzed by thermoase in toluene 26
- Non-homologous region
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- N*-vinyl imidazole
Vinyl imidazole carrying metal-chelated beads for reversible use in yeast invertase adsorption 88
- Oligosaccharides
Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase 72
- Organic solvents
Synthesis of tripeptide RGD amide by a combination of chemical and enzymatic methods 9
- Peptide synthesis
Non-coded amino acids as acyl donor substrates for peptide bond formation catalyzed by thermoase in toluene 26
- Phytosterols
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Phytosteryl esters
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Polyporus pinsitus*
Kinetics of laccase-catalysed TEMPO oxidation 79
- 10-(3-Propylsulfonate) phenoxazine
Kinetics of laccase-catalysed TEMPO oxidation 79
- Proteases
Non-coded amino acids as acyl donor substrates for peptide bond formation catalyzed by thermoase in toluene 26
- Pseudomonas* sp. lipase
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- Recycling of waste vegetable oil
Kinetic study of esterification of rapeseed oil contained in waste activated bleaching earth using *Candida rugosa* lipase in organic solvent system 95
- Resolution
Enzymatic resolution of 2-aryloxy-1-propanols via lipase-catalyzed enantioselective acylation using acid anhydrides as acyl donors 63
- RGD
Synthesis of tripeptide RGD amide by a combination of chemical and enzymatic methods 9
- Rhizoctonia solani*
Kinetics of laccase-catalysed TEMPO oxidation 79
- Screening
Revisit of aminotransferase in the genomic era and its application to biocatalysis 47
- Short-path distillation
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Soybean oil deodorizer distillate
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56

- Stability**
Effect of ions and other compatible solutes on enzyme activity, and its implication for biocatalysis using ionic liquids 16
- Subgroup**
Revisit of aminotransferase in the genomic era and its application to biocatalysis 47
- Substrate specificity**
Characterization of GDP-mannose pyrophosphorylase from *Escherichia coli* O157:H7 EDL933 and its broad substrate specificity 1
- Succinyl β -cyclodextrin**
Fed-batch production of (*S*)-flurbiprofen in lipase-catalyzed dispersed aqueous phase reaction system induced by succinyl β -cyclodextrin and its extractive purification 109
- TEMPO**
Kinetics of laccase-catalysed TEMPO oxidation 79
- 2,2,6,6-Tetramethyl-piperidine-1-oxyl radical**
Kinetics of laccase-catalysed TEMPO oxidation 79
- Tertiary alcohols**
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Thermostability**
Biotechnological applications of *Candida antarctica* lipase A: State-of-the-art 36
- Thermotoga maritima***
Role of N- and C-terminal domains and non-homologous region in co-refolding of *Thermotoga maritima* β -glucosidase 101
- Tocopherols**
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56
- Transesterification**
Study on acyl migration in immobilized lipozyme TL-catalyzed transesterification of soybean oil for biodiesel production 68
Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase 72
- Trichoderma reesei***
Unique mode of acetylation of oligosaccharides in aqueous two-phase system by *Trichoderma reesei* acetyl esterase 72
- Two-step in situ reaction**
Improvement of a process for purification of tocopherols and sterols from soybean oil deodorizer distillate 56