

## Subject Index

### Acetohydroxamic acid

Inhibition of chitosan-immobilized urease by slow-binding inhibitors:  $\text{Ni}^{2+}$ ,  $\text{F}^-$  and acetohydroxamic acid 101

### Almond- $\beta$ -glucosidase

A kinetic study of almond- $\beta$ -glucosidase catalysed synthesis of hexyl-glycosides in low aqueous media. Influence of glycosyl donor and water activity 69

### Amidase

Biotransformation of 3-substituted methyl (*R,S*)-4-cyanobutanoates with nitrile- and amide-converting biocatalysts 95

### 2-aryl-3-Methylbutyronitriles

Enantioselective biotransformations of racemic 2-aryl-3-methylbutyronitriles using *Rhodococcus* sp. AJ270 77

### Asymmetric hydrolysis

Enantioselective hydrolysis of epoxides: the employment of the soluble fraction from *Vicia sativa* seedlings 125

### Bile salt

Effects of bile salts on the solubility and activity of yeast alcohol dehydrogenase in AOT reversed micelles 7

### Biocatalytic membranes

Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31

### Biotransformations

Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111

### Buffer solution

Effects of bile salts on the solubility and activity of yeast alcohol dehydrogenase in AOT reversed micelles 7

### Catalytic membranes

Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15

### Chemical grafting

Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31

### Chemical modification

Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85

### Chitosan membrane

Inhibition of chitosan-immobilized urease by slow-binding inhibitors:  $\text{Ni}^{2+}$ ,  $\text{F}^-$  and acetohydroxamic acid 101

### Cyanobutanoates

Biotransformation of 3-substituted methyl (*R,S*)-4-cyanobutanoates with nitrile- and amide-converting biocatalysts 95

### Enantioselective biotransformations

Enantioselective biotransformations of racemic 2-aryl-3-methylbutyronitriles using *Rhodococcus* sp. AJ270 77

### Epoxide hydrolase

Enantioselective hydrolysis of epoxides: the employment of the soluble fraction from *Vicia sativa* seedlings 125

### $\text{F}^-$ ion

Inhibition of chitosan-immobilized urease by slow-binding inhibitors:  $\text{Ni}^{2+}$ ,  $\text{F}^-$  and acetohydroxamic acid 101

### Fungal lipases

Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111

### Grafted nylon membranes

Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15

### Immobilization

Inhibition of chitosan-immobilized urease by slow-binding inhibitors:  $\text{Ni}^{2+}$ ,  $\text{F}^-$  and acetohydroxamic acid 101

### Inhibition

Inhibition of chitosan-immobilized urease by slow-binding inhibitors:  $\text{Ni}^{2+}$ ,  $\text{F}^-$  and acetohydroxamic acid 101

### Isothermal bioreactors

Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15

### Keto-acid

The highly stereospecific enzyme catalysed transamination of 4-fluorophenylglyoxylic acid to 4-(*S*)-fluorophenylglycine 1

### Kinetics

A kinetic study of almond- $\beta$ -glucosidase catalysed synthesis of hexyl-glycosides in low aqueous media. Influence of glycosyl donor and water activity 69

### Methoxypolyethylene glycol

Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85

### Micelles

Effects of bile salts on the solubility and activity of yeast alcohol dehydrogenase in AOT reversed micelles 7

- Molecular modeling  
Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85
- Monomethyl glutarates  
Biotransformation of 3-substituted methyl (*R,S*)-4-cyanobutanates with nitrile- and amide-converting biocatalysts 95
- Ni<sup>2+</sup> ion  
Inhibition of chitosan-immobilized urease by slow-binding inhibitors: Ni<sup>2+</sup>, F<sup>-</sup> and acetohydroxamic acid 101
- Nitrile hydratase  
Biotransformation of 3-substituted methyl (*R,S*)-4-cyanobutanates with nitrile- and amide-converting biocatalysts 95
- Non-isothermal bioreactors  
Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31
- Organic solvent  
A kinetic study of almond- $\beta$ -glucosidase catalysed synthesis of hexyl-glycosides in low aqueous media. Influence of glycosyl donor and water activity 69
- Plant  
Enantioselective hydrolysis of epoxides: the employment of the soluble fraction from *Vicia sativa* seedlings 125
- R-( $-$ )-2-aryl-3-methylbutyramides  
Enantioselective biotransformations of racemic 2-aryl-3-methylbutyronitriles using *Rhodococcus* sp. AJ270 77
- Resolution of chiral carboxylic acids  
Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111
- Resolution of racemic alcohols  
Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111
- Rhodococcus equi*  
Biotransformation of 3-substituted methyl (*R,S*)-4-cyanobutanates with nitrile- and amide-converting biocatalysts 95
- S-( $+$ )-2-aryl-3-methylbutyric acids  
Enantioselective biotransformations of racemic 2-aryl-3-methylbutyronitriles using *Rhodococcus* sp. AJ270 77
- Screening of microbial lipases  
Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111
- Stereospecific  
The highly stereospecific enzyme catalysed transamination of 4-fluorophenylglyoxylic acid to 4-(*S*)-fluorophenylglycine 1
- Thermal inactivation kinetics  
Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85
- Thermal stability  
Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85
- Transaminase  
The highly stereospecific enzyme catalysed transamination of 4-fluorophenylglyoxylic acid to 4-(*S*)-fluorophenylglycine 1
- Trans*-glycosylation  
A kinetic study of almond- $\beta$ -glucosidase catalysed synthesis of hexyl-glycosides in low aqueous media. Influence of glycosyl donor and water activity 69
- Trypsin  
Stabilization mechanism of MPEG modified trypsin based on thermal inactivation kinetic analysis and molecular modeling computation 85
- Urea  
Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15  
Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31
- Urease  
Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15  
Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31  
Inhibition of chitosan-immobilized urease by slow-binding inhibitors: Ni<sup>2+</sup>, F<sup>-</sup> and acetohydroxamic acid 101
- Urease 3D structure  
Urease immobilisation on chemically grafted nylon membranes. Part 1: Isothermal characterisation 15
- Waste water treatment  
Urease immobilization on chemically grafted nylon membranes. Part 2. Non-isothermal characterization 31
- Water activity  
A kinetic study of almond- $\beta$ -glucosidase catalysed synthesis of hexyl-glycosides in low aqueous media. Influence of glycosyl donor and water activity 69
- Yeast lipases  
Screening and catalytic activity in organic synthesis of novel fungal and yeast lipases 111